



Georgia Power Company
Plant McIntosh Inactive Landfill No. 3
Permit No. 051-008D(CCR)
Effingham County

**2025 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT**



**ATLANTIC COAST
CONSULTING, INC.**

PROFESSIONAL CERTIFICATION

This 2025 Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company – Plant McIntosh Inactive Landfill No. 3 has been prepared in compliance with the Georgia Environmental Protection Division (EPD) 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.

ATLANTIC COAST CONSULTING, INC.



Charles B. Adams, P.G.
Project Manager
Date: July 31, 2025



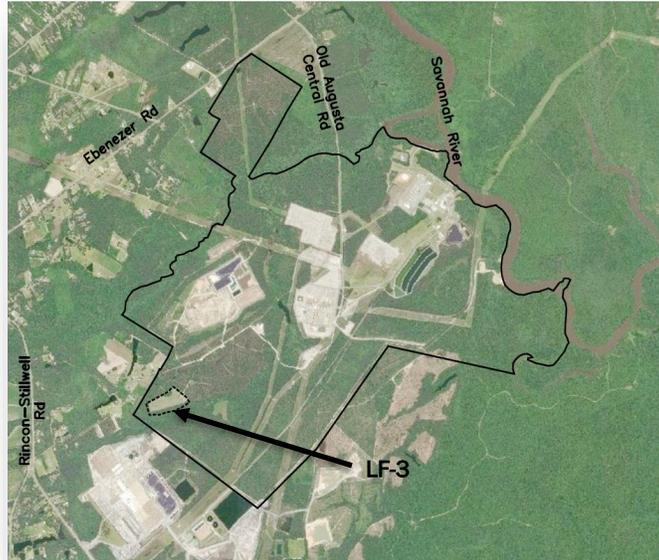
Chad Hall, PhD, P.E.
Senior Professional Engineer
Date: July 31, 2025

SUMMARY

This summary of the *2025 Annual Groundwater Monitoring and Corrective Action Report* provides the groundwater monitoring and corrective action program status from July 2024 through June 2025 for Georgia Power Company (Georgia Power) Plant McIntosh Inactive Landfill No. 3 (Site). This summary was prepared by Atlantic Coast Consulting, Inc. (ACC) on behalf of Georgia Power.

Plant McIntosh is located at 981 Old Augusta Central Road, in Effingham County, Georgia, approximately four 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 west of the Savannah River. The Site is located on the southwestern portion of the plant property.

The Site is monitored using a comprehensive monitoring system of wells installed to meet monitoring requirements of the Coal Combustion Residuals (CCR) Permit 051-008D(CCR). The CCR Permit for the unit was approved by Georgia EPD on March 16, 2023. Routine sampling and reporting began after background groundwater conditions were established in accordance with the former Solid Waste Permit requirements specified in the Design and Operation (D&O) Plan. The monitoring program has been modified to include Appendix III parameters to meet the requirements of the Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). Background groundwater conditions for Appendix III and IV parameters were established between September 2016 and October 2018. During the 2024-2025 annual reporting period, the Site remained in detection monitoring.



Plant McIntosh and Inactive Landfill No. 3

During the 2024-2025 annual reporting period, ACC conducted groundwater sampling events in August 2024 and January 2025. Groundwater samples were submitted to Eurofins Environment Testing America (Eurofins) for analysis. Per the CCR Rule, groundwater results for August 2024 and January 2025 data were evaluated in accordance with the certified statistical methods. That evaluation showed there are no statistically significant increases (SSIs) of Appendix III parameters [boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)].

Based on review of the Appendix III statistical results completed for the groundwater monitoring and corrective action program from July 2024 through June 2025, the Site will continue in detection monitoring. Georgia Power will continue routine groundwater monitoring and reporting of the Site. Reports will be posted to the website and provided to Georgia EPD semiannually.

TABLE OF CONTENTS

Section	Page No.
1.0 INTRODUCTION	1
1.1 Site Description and Background	1
1.2 Regional Geology and Hydrogeologic Setting	1
1.3 Groundwater Monitoring Well Network and CCR Unit Description	1
2.0 GROUNDWATER MONITORING ACTIVITIES.....	2
2.1 Monitoring Well Installation and Maintenance.....	2
2.2 Detection Monitoring Program.....	2
2.3 Additional Sampling.....	2
3.0 SAMPLE METHODOLOGY AND ANALYSIS.....	3
3.1 Groundwater Flow Direction, Gradient, and Velocity.....	3
3.2 Groundwater Sampling.....	3
3.3 Laboratory Analyses	4
3.4 Quality Assurance and Quality Control	4
4.0 STATISTICAL ANALYSIS.....	4
4.1 Methods	5
4.2 Statistical Analyses Results	5
4.2.1 Summary of Results for State Appendix I Parameters	5
4.2.2 Summary of Results for Appendix III Parameters.....	6
5.0 MONITORING PROGRAM STATUS	6
6.0 CONCLUSIONS AND FUTURE ACTIONS.....	6
7.0 REFERENCES	6

Tables

- Table 1 – Monitoring Well Network Summary
- Table 2 – Groundwater Event Summary
- Table 3 – Summary of Groundwater Elevations
- Table 4A – Horizontal Groundwater Flow Velocity Calculations – August 2024
- Table 4B – Horizontal Groundwater Flow Velocity Calculations – January 2025
- Table 5A – Groundwater Analytical Data Summary – August 2024
- Table 5B – Groundwater Analytical Data Summary – January 2025
- Table 6 – Statistical Method Summary

Figures

- Figure 1 – Site Location Map
- Figure 2 – Well Location Map
- Figure 3A – Potentiometric Contour Map – August 2024
- Figure 3B – Potentiometric Contour Map – January 2025

Appendices

- Appendix A – Laboratory Analytical and Field Sampling Reports
 - Laboratory Analytical and Field Sampling Reports – August 2024 Monitoring Event
 - Laboratory Analytical and Field Sampling Reports – January 2025 Monitoring Event
- Appendix B – Statistical Analysis Reports
 - Statistical Analysis Report – August 2024 Monitoring Event
 - Statistical Analysis Report – January 2025 Monitoring Event

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 and 391-3-4-.14, Atlantic Coast Consulting, Inc. (ACC) has prepared this *2025 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted for the reporting period of July 2024 through June 2025 at Plant McIntosh Inactive Landfill No. 3 (Site). Semiannual monitoring and reporting for the CCR Unit are performed in accordance with the monitoring requirements of Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a).

Groundwater monitoring is currently performed in accordance with the CCR Permit (051-008D(CCR)) requirements specified in the Groundwater Monitoring Plan - GWMP (GEI, 2022). An application for a new Georgia CCR permit was submitted to Georgia EPD in November 2018 for the facility to replace the existing Solid Waste Permit and was approved by Georgia EPD on March 16, 2023. The previous Solid Waste Permit 051-008D(LI) has been incorporated into the requirements of CCR Permit 051-008D(CCR).

This report provides the results of the sampling events conducted in August 2024 and January 2025 and includes: (1) a state-modified list of Appendix I detection parameters as approved in the CCR Permit and noted in the GWMP; and (2) CCR detection monitoring sampling events for Appendix III parameters.

This document serves as the *2025 Annual Groundwater Monitoring and Corrective Action Report* in accordance with Georgia EPD Rule 391-3-4-.10(6)(a).

1.1 Site Description and Background

Plant McIntosh is located at 981 Old Augusta Central Road, in Effingham County, Georgia, approximately four 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. The Site is located on the southwestern portion of the plant property.

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 45 and 10 feet North American Vertical Datum of 1988 (NAVD88). The predominant groundwater flow direction across Plant McIntosh is to the north/northeast.

1.3 Groundwater Monitoring Well Network and CCR Unit Description

A groundwater monitoring system was installed within the uppermost aquifer at Plant McIntosh Inactive Landfill No. 3. The monitoring system is designed to monitor groundwater passing the waste boundary of the CCR Unit within the uppermost aquifer. The monitoring well locations are depicted in Figure 2, Well Location Map. Wells were located to serve as upgradient and

downgradient monitoring points based on groundwater flow direction (Table 1, Monitoring Well Network Summary).

2.0 GROUNDWATER MONITORING ACTIVITIES

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed from July 2024 through June 2025 (the reporting period) and discusses any change in status of the monitoring program. All groundwater sampling was performed in accordance with 40 CFR § 257.93. Semiannual samples were collected in August 2024 and January 2025 from each well in the certified monitoring system shown on Figure 2. Pursuant to 40 CFR § 257.90(e)(3), a summary and description of groundwater sampling events completed at the Site during the reporting period is shown in Table 2, Groundwater Event Summary.

2.1 Monitoring Well Installation and Maintenance

The Georgia EPD-approved locations of detection monitoring wells and piezometers are depicted on Figure 2. Other 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 to perform sampling under safe and clean conditions. Well inspection checklists completed during semiannual sampling are included in Appendix A, Laboratory Analytical and Field Sampling Reports. Monitoring wells are inspected semiannually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In August 2024 and January 2025, monitoring wells were inspected. No corrective actions were deemed necessary in August 2024 except for a cracked pad at PZ-1, as documented in Appendix A. No corrective actions were deemed necessary in January 2025 except for the cracked pad at PZ-1, and well pad repairs for GWA-3A and GWC-4A. Corrective actions to fix PZ-1, GWA-3A, and GWC-4A were performed on March 25-26, 2025 as documented in Appendix A.

2.2 Detection Monitoring Program

Detection monitoring is performed on a semiannual basis in accordance with the approved Georgia EPD CCR Permit. Semiannual sampling events were conducted in August 2024 and January 2025.

Groundwater samples from wells in the detection monitoring system were collected and analyzed for:

- Appendix III parameters according to 40 CFR § 257.94(a); and
- A state-modified Appendix I list of detection parameters according to Georgia EPD Rules for Solid Waste Management 391-3-4-.14. The state-modified analyte list includes barium, beryllium, chromium, cobalt, copper, lead, vanadium, and zinc.

A copy of the analytical data packages for the semiannual detection monitoring events are included in Appendix A.

2.3 Additional Sampling

Additional geochemical analytical data was collected during the January 2025 event that includes analysis of major cations, total alkalinity, bicarbonate alkalinity and carbonate alkalinity for evaluation purposes only.

3.0 SAMPLE METHODOLOGY AND ANALYSIS

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

3.1 Groundwater Flow Direction, Gradient, and Velocity

Prior to the sampling events, groundwater elevations were recorded from piezometers and wells at the Site. Groundwater elevations recorded during the monitoring event(s) are summarized in Table 3, Summary of Groundwater Elevations. Groundwater elevation data were used to develop Figures 3A and 3B, Potentiometric Contour Map – August 2024 and January 2025, respectively. The groundwater flow consistently had a northern flow direction. The groundwater flow velocity at the Site was calculated using a derivation of Darcy’s Law. Specifically:

Equation

$$v = \frac{K(i)}{ne} \quad \text{where: } \begin{array}{l} v = \text{groundwater velocity} \\ K = \text{hydraulic conductivity} \\ i = \text{hydraulic gradient} \\ ne = \text{effective porosity} \end{array}$$

Groundwater flow velocities were calculated for the Site based on hydraulic gradients, hydraulic conductivity calculated from previous slug test data, and an estimated effective porosity of 0.20 (US EPA, 1989). The groundwater flow velocities were calculated and are tabulated in Tables 4A and 4B, Horizontal Groundwater Flow Velocity Calculations – August 2024 and January 2025, respectively. The calculated average flow velocity was approximately 0.077 feet per day during the August 2024 event and 0.058 feet per day during the January 2025 event.

These calculated groundwater velocities across the Site are generally consistent with historical calculations and within 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 a peristaltic pump. The pump intakes were located at the midpoint of the well screens (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 Laboratory Services and Applied Science Division (LSASD) Operating Procedure for Field Equipment Cleaning and Decontamination.

Monitoring wells were purged and sampled using low-flow sampling procedures. An AquaTroll (In-Situ field instruments) 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 turbidimeter. Groundwater samples were collected when the following stabilization criteria were met:

- ± 0.1 standard units for pH
- ± 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 (NTU)

Once 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, Georgia following chain-of-custody protocol. Stabilization logs for each well and field calibration logs for each monitoring event are included in Appendix A.

3.3 Laboratory Analyses

Groundwater samples were collected during the monitoring events completed in August 2024 and January 2025. Analytical methods used for groundwater monitoring parameters are provided in laboratory reports in Appendix A. Samples were analyzed for Appendix III parameters and Appendix I parameters required by the current permit. Analytical data collected in the monitoring events are summarized in Tables 5A and 5B, Groundwater Analytical Data Summary – August 2024 and January 2025, respectively. Additional geochemical analytical data collected during January 2025 are also summarized in Table 5B.

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 set of QA/QC equipment rinsate blanks per every 10 samples and at least one set of QA/QC field blanks and field duplicate samples per every 20 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 meets project objectives and the associated data validation reports are provided in Appendix A, along with the laboratory reports. A summary of the data validation is included in Appendix A.

Values followed by a "J" flag in 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 (RL). The estimated value is positively identified but is below the lowest level that can be reliably reported within specified limits of precision and accuracy under routine laboratory operating conditions.

4.0 STATISTICAL ANALYSIS

Statistical analysis of August 2024 and January 2025 groundwater monitoring data was completed by Groundwater Stats Consulting, LLC (GSC) following the appropriate certified

statistical methodology for the Site. A summary of the statistical methodology used at the Site for routine groundwater monitoring is provided in Table 6, Statistical Method Summary. Statistical analysis methods and results are provided in Appendix B, Statistical Analysis Reports. A summary of methods and results is provided in the following sections.

4.1 Methods

The statistical method used at the Site was developed by GSC, using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance*, March 2009, US EPA 530/R-09-007 (US EPA, 2009). To develop the statistical methods, analytical data collected during the background period were evaluated and used to develop statistical limits for each Appendix III and Appendix I parameter required by the existing Georgia EPD permit. Sanitas groundwater statistical software was used to screen the data and 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.

Statistically significant increasing trends identified in upgradient wells are not considered statistically significant increases (SSIs). Typically, when changes in concentrations are present upgradient of the facility, it is an indication of naturally changing groundwater quality.

The selected statistical method for Plant McIntosh Inactive Landfill No. 3 was developed in accordance with 40 CFR § 257.93(f) and Georgia EPD Rule 391-3-4-.10(6) using methodology presented in US EPA Unified Guidance (2009), US EPA 530/R-09-007 and as requested by Georgia EPD.

Statistical tests used to evaluate the August 2024 and January 2025 groundwater monitoring data consist of interwell prediction limits (PLs) combined with a 1-of-2 verification resample plan for each of the Appendix I and III parameters. Interwell PLs are constructed using pooled data from upgradient wells GWA-1B, GWA-2B, GWA-3A, GWA-4, GWA-5, and GWA-7A to establish a background limit for an individual parameter. The most recent sample from each downgradient well is compared to the background limit to determine whether there are SSIs. An "initial exceedance" occurs when an Appendix I or III parameter reported in a downgradient groundwater compliance monitoring well exceeds the parameter's associated PL. The 1-of-2 resample plan allows for collection of an independent resample. A confirmed exceedance is noted only when the resample verifies the initial exceedance. If the resample result is less than its relevant PL, the initial exceedance is not verified.

A summary of the statistical methodology used at the Site for the August 2024 and January 2025 routine groundwater monitoring data is provided in Table 6.

4.2 Statistical Analyses Results

Analytical data from the August 2024 and January 2025 monitoring events were statistically analyzed in accordance with the methods described in Section 4.1 and Table 6. The statistical analysis and comparisons to PLs are included in Appendix B.

4.2.1 Summary of Results for State Appendix I Parameters

Statistical analysis of the August 2024 and January 2025 Appendix I parameter data identified no PL exceedances.

4.2.2 Summary of Results for Appendix III Parameters

Statistical analysis of the August 2024 and January 2025 Appendix III parameter data identified no PL exceedances.

5.0 MONITORING PROGRAM STATUS

No SSIs were identified for the July 2024 through June 2025 annual reporting period; therefore, the Site will remain in detection monitoring.

6.0 CONCLUSIONS AND FUTURE ACTIONS

This *2025 Annual Groundwater Monitoring and Corrective Action Report* for Georgia Power's Plant McIntosh Inactive Landfill No. 3 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 evaluation of Site groundwater monitoring data during the reporting period did not identify SSIs of Appendix III or Appendix I groundwater monitoring parameters. The Site remains in detection monitoring.

The next semiannual detection monitoring event is tentatively scheduled for August 2025.

7.0 REFERENCES

- ACC, 2020, *September 2020 Well Installation Report Addendum, Plant McIntosh – Inactive Landfill No. 3, October 29, 2020.*
- GEI, 2022. *Groundwater Monitoring Plan, Plant McIntosh Inactive Coal Combustion Inactive CCR Landfill No. 3, Effingham County, Georgia, November 2022.*
- Georgia Power, 2022. *Request for Minor Modification to Groundwater Monitoring Network, October 6, 2022, GEOS Submittal Id.: 701522.*
- Georgia Power, 2023. *Groundwater Document Submittal, Well Abandonment Report, February 24, 2023, GEOS Submittal Id.: 739739.*
- MacStat Consulting, Ltd., 2017. *Statistical Analysis Plan – Plant McIntosh Landfill No. 3.*
- Sanitas, 2007 *Groundwater Statistical Software, Sanitas Technologies, Shawnee, KS.*
- Southern Company Services - Earth Science and Environmental Engineering (SCS ES&EE), 2002. *Savannah Electric Plant McIntosh Proposed Ash Monofill Site Acceptability Report. July 2002.*
- US EPA, 1989. *Waste Management Division Office of Solid Waste, EPA 530/SW89-031 Interim Final RCRA Investigation (RFI) Guidance, Volume II of IV.*
- US EPA, 2009, *Unified Guidance, Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities. Office of Solid Waste Management Division, EPA 530/R-09-007, Washington, D.C.*
- US EPA, 2011, *Region IV Data Validation Standard Operating Procedures. Science and Ecosystem Support Division. Athens, Georgia.*

US EPA, 2017. *National Functional Guidelines for Inorganic Superfund Methods Data Review*, Office of Superfund Remediation and Technology Innovation. OLEM 9355.0-135 [US EPA-540-R-2017-001]. Washington, DC.

US EPA, 2020, Field Equipment Cleaning and Decontamination – Operating Procedure: LSASDPROC-205-R4, Athens, Georgia, 15 pages.

US EPA, 2023, Groundwater Sampling – Operating Procedure: LSASDPROC-301-R6, Athens, Georgia, 36 pages.

TABLES

Table 1
Monitoring Well Network Summary
Georgia Power Company
Plant McIntosh Inactive Landfill No. 3
Effingham County, GA



Well ID	Compliance Purpose	Location	Northing	Easting	Ground Surface Elevation (feet)	Top of Casing Elevation (feet)	Top of Screen Elevation (feet)	Bottom of Screen Elevation (feet)	Total Well Depth (feet below top of casing)	Groundwater Zone Screened	Installation Date
GWA-1B	Detection	Upgradient	852028.09	954564.84	64.39	67.36	19.40	9.40	58.53	CL/SC	12/04/2020
GWA-2B	Detection	Upgradient	851831.06	954866.86	63.38	66.20	24.72	14.72	51.78	SW-SC, SW-SM	08/29/2018
GWA-3A	Detection	Upgradient	851893.61	955179.89	59.53	62.77	40.03	30.03	33.88	CL/SC	05/16/1998
GWA-4	Detection	Upgradient	851980.91	955475.74	58.80	62.01	38.30	33.30	29.16	CL/SC	05/07/1998
GWA-5	Detection	Upgradient	852110.59	955844.69	57.35	60.43	37.85	27.85	33.00	SC	05/07/1998
GWA-7A	Detection	Upgradient	852254.28	954654.74	65.37	67.92	31.28	21.28	46.94	CL/SC	08/29/2018
GWC-1A	Detection	Downgradient	852453.58	955300.47	64.00	66.76	29.93	19.93	47.37	SC	12/08/2020
GWC-2	Detection	Downgradient	852343.90	955958.27	60.80	64.19	37.20	27.90	36.79	SM	01/23/1996
GWC-4A	Detection	Downgradient	852544.35	955702.05	64.37	66.60	41.87	31.87	36.96	CL/SC	05/16/1998
GWC-5A	Detection	Downgradient	852689.80	955477.18	65.64	67.84	35.39	25.39	42.60	SC	12/09/2020
GWC-6A	Detection	Downgradient	852462.38	955046.58	65.66	68.37	36.29	26.29	42.43	SC	12/07/2020
PZ-1	Piezometer	Downgradient	852400.01	954904.93	64.70	67.41	25.00	15.00	52.71	SW-SM, SC, SW, SM	08/29/2018
PZ-2	Piezometer	Downgradient	852549.77	955306.02	64.99	67.26	35.29	25.29	42.27	SW-SM, SC, SM	08/28/2018
PZ-3	Piezometer	Upgradient	852032.57	955677.60	58.69	61.28	29.99	19.99	41.59	SM, SC, SW-SM	08/30/2018
PZ-4	Piezometer	Downgradient	851879.27	954615.01	63.66	66.41	23.57	13.57	53.19	SC, SW	01/21/2022
PZ-5	Piezometer	Downgradient	852171.15	954557.82	64.91	67.52	24.74	14.74	53.13	SP, SP-SC	01/20/2022

Notes:

Elevations shown are in datum NAVD88, which indicates feet in elevation referenced to the North American Vertical Datum 1988.

Well screen elevations are calculated by subtracting the depths to top and bottom of the well screen from the ground surface elevation.

Northings and eastings are feet relative to North American Datum 1983, State Plane Georgia East Zone.

Groundwater Zone Screened designations are ASTM D2487-17e1 Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System), where applicable.

Ground surface elevation measured at marker or known point on surface concrete pad.

Table 2
Groundwater Event Summary
Georgia Power Company
Plant McIntosh Inactive Landfill No. 3
Effingham County, GA



Well ID	Hydraulic Location	Well Designation	August 19-20, 2024	January 27-28, 2025
			Semiannual Detection Event	Semiannual Detection Event
Georgia Power Company - Plant McIntosh - Landfill No. 3				
GWA-1B	Upgradient	Detection	X	X
GWA-2B	Upgradient	Detection	X	X
GWA-3A	Upgradient	Detection	X	X
GWA-4	Upgradient	Detection	X	X
GWA-5	Upgradient	Detection	X	X
GWA-7A	Upgradient	Detection	X	X
GWC-1A	Downgradient	Detection	X	X
GWC-2	Downgradient	Detection	X	X
GWC-4A	Downgradient	Detection	X	X
GWC-5A	Downgradient	Detection	X	X
GWC-6A	Downgradient	Detection	X	X

Notes:

X - Indicates well sampled during event

Semiannual Detection Event includes Appendix III and Appendix I parameters.

Table 3
Summary of Groundwater Elevations
Georgia Power Company
Plant McIntosh Inactive Landfill No. 3
Effingham County, GA

Well ID	Top of Casing Elevation (feet)	August 2024		January 2025	
		Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
GWA-1B	67.36	19.49	47.87	18.94	48.42
GWA-2B	66.20	16.69	49.51	15.94	50.26
GWA-3A	62.77	12.38	50.39	11.48	51.29
GWA-4	62.01	12.13	49.88	11.46	50.55
GWA-5	60.43	10.95	49.48	10.36	50.07
GWA-7A	67.92	20.56	47.36	19.52	48.40
GWC-1A	66.76	18.71	48.05	17.22	49.54
GWC-2	64.19	15.18	49.01	14.78	49.41
GWC-4A	66.60	18.46	48.14	17.13	49.47
GWC-5A	67.84	20.24	47.60	18.86	48.98
GWC-6A	68.37	20.80	47.57	19.41	48.96
PZ-1	67.41	20.03	47.38	18.78	48.63
PZ-2	67.26	19.60	47.66	18.15	49.11
PZ-3	61.28	11.63	49.65	10.95	50.33
PZ-4	66.41	17.33	49.08	16.62	49.79
PZ-5	67.52	19.97	47.55	19.17	48.35

Notes:

Elevations referenced to the North American Vertical Datum 1988.
 Groundwater elevations measured August 12, 2024 and January 27, 2025.

Table 4A
Horizontal Groundwater Flow Velocity Calculations - August 2024
Georgia Power Company
Plant McIntosh Inactive Landfill No. 3
Effingham County, GA



Well Pair	Groundwater Elevations in Well Pairs (feet)		Change in Elevation (feet)	Distance Between Well 1 and Well 2 (feet)	Hydraulic Gradient (i)	Average Hydraulic Conductivity (K) (feet per day)	Estimated Effective Porosity (ne)	Calculated Groundwater Flow Velocity (feet per day)	Calculated Groundwater Flow Velocity (feet per year)
GWA-3A to GWC-6A	50.39	47.57	2.82	584.2	0.0048	4.0	0.20	0.096	35
GWA-4 to GWC-4A	49.88	48.14	1.74	608.4	0.0029	4.0	0.20	0.058	21
Average					0.0039	4.0	0.20	0.077	28

Notes:

In-situ hydraulic conductivity (slug) tests in the bedrock at the Site ranged from 1.77 to 9.92 feet per day with an average of 4.00 feet per day (Groundwater Monitoring Plan, GEI, 2022).

Effective porosity of 20% was selected for Silty Sands from Interim Final RCRA Investigation (EPA, 1989).

See Figure 3A for illustrated flow paths.

Groundwater flow velocity equation: $V = (K \cdot i) / n_e$, where V is groundwater velocity, K is hydraulic conductivity, i is hydraulic gradient, and n_e is effective porosity.

Table 4B
Horizontal Groundwater Flow Velocity Calculations - January 2025
Georgia Power Company
Plant McIntosh Inactive Landfill No. 3
Effingham County, GA



Well Pair	Groundwater Elevations in Well Pairs (feet)		Change in Elevation (feet)	Distance Between Well 1 and Well 2 (feet)	Hydraulic Gradient (i)	Average Hydraulic Conductivity (K) (feet per day)	Estimated Effective Porosity (ne)	Calculated Groundwater Flow Velocity (feet per day)	Calculated Groundwater Flow Velocity (feet per year)
GWA-3A to GWC-6A	51.29	48.96	2.33	584.2	0.0040	4.0	0.20	0.080	29.2
GWA-4 to GWC-4A	50.55	49.47	1.08	608.4	0.0018	4.0	0.20	0.036	13.1
Average					0.0029	4.0	0.20	0.058	21.2

Notes:

In-situ hydraulic conductivity (slug) tests in the bedrock at the Site ranged from 1.77 to 9.92 feet per day with an average of 4.00 feet per day (Groundwater Monitoring Plan, GEI, 2022).

Effective porosity of 20% was selected for Silty Sands from Interim Final RCRA Investigation (EPA, 1989).

See Figure 3B for illustrated flow paths.

Groundwater flow velocity equation: $V = (K * i) / n_e$, where V is groundwater velocity, K is hydraulic conductivity, i is hydraulic gradient, and n_e is effective porosity.

Table 5A
Groundwater Analytical Data Summary - August 2024
Georgia Power Company
Plant McIntosh Inactive Landfill No. 3
Effingham County, GA



Sample Location		GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A	GWC-1A	GWC-2	GWC-4A
Sample Date		08/20/2024	08/19/2024	08/20/2024	08/20/2024	08/20/2024	08/19/2024	08/20/2024	08/20/2024	08/20/2024
ANALYTE	UNITS									
Appendix III										
Boron	mg/L	0.055 J	0.37	0.072 J	0.023 J	0.053 J	1.2	0.24	0.11	< 0.022
Calcium	mg/L	2.7	11	5.0	1.4	2.8	13	2.6	10	0.36 J
Chloride	mg/L	9.2	11	33	7.9	6.9	8.1	15	5.0	4.9
Fluoride	mg/L	< 0.040	< 0.20	< 0.20	< 0.040	0.13	< 0.20	< 0.040	< 0.040	< 0.040
pH, Field	SU	5.71	5.70	4.96	4.81	4.62	5.16	4.52	5.60	4.68
Sulfate	mg/L	0.78 J	32	< 2.0	4.0	19	77	0.48 J	5.1	0.95 J
Total Dissolved Solids	mg/L	50	98	94	40	53	130	56	60	23
Required by Permit										
Barium	mg/L	0.018	0.063	0.14	0.057	0.11	0.047	0.29	0.097	0.046
Beryllium	mg/L	< 0.00020	0.00090 J	0.00081 J	0.00021 J	0.00034 J	0.00048 J	0.00050 J	0.00026 J	< 0.00020
Chromium	mg/L	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.0012 J	< 0.0012	< 0.0012	0.0027	< 0.0012
Cobalt	mg/L	0.00028 J	0.0032	0.0029	0.0012 J	0.0012 J	0.0018 J	0.0048	0.0015 J	0.00048 J
Copper	mg/L	< 0.0011	< 0.0011	0.0030	< 0.0011	< 0.0011	0.0015 J	< 0.0011	< 0.0011	< 0.0011
Lead	mg/L	< 0.00021	< 0.00021	0.00030 J	< 0.00021	0.00046 J	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Vanadium	mg/L	< 0.00063	< 0.00063	0.00095 J	< 0.00063	0.0012 J	< 0.00063	< 0.00063	< 0.00063	< 0.00063
Zinc	mg/L	0.0035 J	0.040	0.019	0.0081	0.0070	0.019	0.020	0.0067	< 0.0028

Notes:

mg/L - milligrams per liter

SU - Standard Units

< indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.

J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the MDL, but below the laboratory reporting limit.

Parameters required by permit are Appendix I parameters included to meet Georgia EPD Rule 391-3-4-.14 requirements.

Table 5A
 Groundwater Analytical Data Summary - August 2024
 Georgia Power Company
 Plant McIntosh Inactive Landfill No. 3
 Effingham County, GA



Sample Location		GWC-5A	GWC-6A
Sample Date		08/20/2024	08/20/2024
ANALYTE	UNITS		
Appendix III			
Boron	mg/L	< 0.022	0.034 J
Calcium	mg/L	1.6	3.2
Chloride	mg/L	10	11
Fluoride	mg/L	< 0.040	< 0.040
pH, Field	SU	4.78	5.30
Sulfate	mg/L	0.52 J	3.2
Total Dissolved Solids	mg/L	39	71
Required by Permit			
Barium	mg/L	0.13	0.088
Beryllium	mg/L	0.00051 J	0.00033 J
Chromium	mg/L	< 0.0012	0.0013 J
Cobalt	mg/L	0.0037	0.0010 J
Copper	mg/L	< 0.0011	< 0.0011
Lead	mg/L	0.00024 J	< 0.00021
Vanadium	mg/L	< 0.00063	< 0.00063
Zinc	mg/L	0.015	0.0052

Notes:

mg/L - milligrams per liter

SU - Standard Units

< indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.

J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the MDL, but below the laboratory reporting limit.

Parameters required by permit are Appendix I parameters included to meet Georgia EPD Rule 391-3-4-.14 requirements.

Table 5B
Groundwater Analytical Data Summary - January 2025
Georgia Power Company
Plant McIntosh Inactive Landfill No. 3
Effingham County, GA



Sample Location		GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A	GWC-1A	GWC-2	GWC-4A
Sample Date		01/28/2025	01/28/2025	01/28/2025	01/28/2025	01/28/2025	01/27/2025	01/28/2025	01/28/2025	01/28/2025
ANALYTE	UNITS									
Appendix III										
Boron	mg/L	0.053 J	0.65	0.058 J	< 0.022	0.047 J	1.1	0.62	0.11	0.023 J
Calcium	mg/L	2.5	14	5.4	1.5	3.5	12	2.7	3.0	0.53
Chloride	mg/L	9.4	9.8	34	8.5	12	7.0	16	5.0	14
Fluoride	mg/L	< 0.040	< 0.080	< 0.20	< 0.040	< 0.040	< 0.20	< 0.080	< 0.040	< 0.040
pH, Field	SU	5.50	5.00	4.52	4.88	4.50	5.18	4.46	5.01	4.69
Sulfate	mg/L	0.70 J	65	< 2.0	3.4	18	65	< 0.80	4.6	1.1
Total Dissolved Solids	mg/L	52	120	98	37	58	130	58	42	37
Required by Permit										
Barium	mg/L	0.015	0.054	0.16	0.058	0.13	0.044	0.28	0.074	0.047
Beryllium	mg/L	< 0.00020	0.0017 J	0.0012 J	0.00021 J	0.00035 J	0.00051 J	0.00045 J	0.00041 J	< 0.00020
Chromium	mg/L	< 0.0012	0.0030	0.0017 J	< 0.0012	0.0019 J	< 0.0012	0.0028	0.0019 J	< 0.0012
Cobalt	mg/L	0.00029 J	0.0035	0.0031	0.0011 J	0.0015 J	0.0017 J	0.0047	0.0017 J	0.00061 J
Copper	mg/L	< 0.0011	< 0.0011	0.0018 J	< 0.0011	0.0011 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Lead	mg/L	< 0.00021	< 0.00021	0.00031 J	< 0.00021	0.00060 J	< 0.00021	< 0.00021	< 0.00021	< 0.00021
Vanadium	mg/L	< 0.00063	< 0.00063	< 0.00063	< 0.00063	0.0010 J	< 0.00063	< 0.00063	< 0.00063	< 0.00063
Zinc	mg/L	< 0.0028	0.014	0.011	0.012	0.013	0.0087	0.021	0.0083	0.0062
Additional Parameters										
Bicarbonate Alkalinity as CaCO3	mg/L	6.7	5.7	< 5.0	< 5.0	< 5.0	5.7	< 5.0	9.6	< 5.0
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	6.7	5.7	< 5.0	< 5.0	< 5.0	5.7	< 5.0	9.6	< 5.0
Magnesium	mg/L	0.67	3.4	2.3	1.2	2.6	3.4	3.5	1.0	1.2
Potassium	mg/L	0.94	2.9	3.8	1.1	2.1	2.6	2.1	2.0	0.95
Sodium	mg/L	4.4	13	10	4.7	6.2	14	5.4	5.1	6.7

Notes:

mg/L - milligrams per liter

SU - Standard Units

CaCO3 - Calcium Carbonate

< indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.

J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the MDL, but below the laboratory reporting limit.

Parameters required by permit are Appendix I parameters included to meet Georgia EPD Rule 391-3-4-.14 requirements.

Table 5B
Groundwater Analytical Data Summary - January 2025
Georgia Power Company
Plant McIntosh Inactive Landfill No. 3
Effingham County, GA



Sample Location		GWC-5A	GWC-6A
Sample Date		01/28/2025	01/28/2025
ANALYTE	UNITS		
Appendix III			
Boron	mg/L	< 0.022	0.032 J
Calcium	mg/L	1.7	3.2
Chloride	mg/L	11	11
Fluoride	mg/L	< 0.040	< 0.040
pH, Field	SU	4.69	5.26
Sulfate	mg/L	< 0.40	2.2
Total Dissolved Solids	mg/L	37	68
Required by Permit			
Barium	mg/L	0.13	0.086
Beryllium	mg/L	0.00046 J	0.00035 J
Chromium	mg/L	< 0.0012	0.0020
Cobalt	mg/L	0.0036	0.00095 J
Copper	mg/L	< 0.0011	< 0.0011
Lead	mg/L	< 0.00021	< 0.00021
Vanadium	mg/L	< 0.00063	< 0.00063
Zinc	mg/L	0.018	0.0047 J
Additional Parameters			
Bicarbonate Alkalinity as CaCO3	mg/L	< 5.0	13
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	< 5.0	13
Magnesium	mg/L	2.2	1.5
Potassium	mg/L	1.6	1.7
Sodium	mg/L	2.9	5.6

Notes:

mg/L - milligrams per liter

SU - Standard Units

CaCO3 - Calcium Carbonate

< indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.

J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the MDL, but below the laboratory reporting limit.

Parameters required by permit are Appendix I parameters included to meet Georgia EPD Rule 391-3-4-.14 requirements.

Table 6
 Statistical Method Summary
 Georgia Power Company
 Plant McIntosh Inactive Landfill No. 3
 Effingham County, GA



Plant McIntosh Inactive Landfill No. 3 Statistical Method Summary		
Monitoring Well Network	Upgradient Wells	GWA-1B, GWA-2B, GWA-3A, GWA-4, GWA-5, and GWA-7A
	Downgradient Wells	GWC-1A, GWC-2, GWC-4A, GWC-5A, and GWC-6A
CCR Monitoring Parameters	Appendix III (Detection Monitoring)	Boron, Calcium, Chloride, Fluoride, pH, Sulfate, and Total Dissolved Solids
	Appendix IV (Assessment Monitoring)	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Combined Radium 226 + 228, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, and Thallium
Georgia EPD Permit Metals	Detection Monitoring	Barium, Beryllium, Chromium, Cobalt, Copper, Lead, Vanadium, and Zinc
Statistical Methodology	Data Screening Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available
	Statistical Limits	Interwell statistical limits

Notes:

The selected statistical method for Plant McIntosh Inactive Landfill No. 3 was developed and updated to analyze the groundwater data in accordance with Georgia EPD Rule 391-3-4-.10(6) using methodology presented in Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009, EPA530/R-09-007 (Unified Guidance) and as requested by Georgia EPD.

FIGURES



 **Georgia Power**
 GEORGIA POWER COMPANY
 PLANT McINTOSH LANDFILL No. 3

LEGEND

-  APPROXIMATE PROPERTY BOUNDARY
-  INACTIVE LANDFILL No. 3



NOTES:

1. AERIAL DATED JANUARY 22, 2024, PROVIDED BY SAM, LLC. ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED FROM 2019 THROUGH 2021.



ATLANTIC COAST
 CONSULTING, INC.

2025 ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

LEGEND

-  APPROXIMATE PROPERTY BOUNDARY
-  EXISTING 100-FOOT BUFFER ZONE
-  WASTE MANAGEMENT BOUNDARY
-  DETECTION MONITORING WELL
-  PIEZOMETER

NOTES:

1. AERIAL DATED JANUARY 22, 2024, PROVIDED BY SAM, LLC. ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED DECEMBER 2, 2021.



2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP

FIGURE 2

LEGEND

-  APPROXIMATE PROPERTY BOUNDARY
-  EXISTING 100-FOOT BUFFER ZONE
-  WASTE MANAGEMENT BOUNDARY
-  GROUNDWATER ELEVATION CONTOUR (FT NAVD88)
-  GROUNDWATER FLOW DIRECTION
-  DETECTION MONITORING WELL
-  PIEZOMETER

NOTES

1. AERIAL DATED JANUARY 22, 2024, PROVIDED BY SAM, LLC. ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED DECEMBER 2, 2021.
2. DEPTHS TO WATER MEASURED AUGUST 12, 2024.
3. FT NAVD88 = FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988.



2025 ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

POTENTIOMETRIC CONTOUR MAP
 AUGUST 2024

FIGURE
 3A



LEGEND

-  APPROXIMATE PROPERTY BOUNDARY
-  EXISTING 100-FOOT BUFFER ZONE
-  WASTE MANAGEMENT BOUNDARY
-  GROUNDWATER ELEVATION CONTOUR (FT NAVD88)
-  GROUNDWATER FLOW DIRECTION
-  DETECTION MONITORING WELL
-  PIEZOMETER

NOTES

1. AERIAL DATED JANUARY 22, 2024, PROVIDED BY SAM, LLC. ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED DECEMBER 2, 2021.
2. DEPTHS TO WATER MEASURED JANUARY 27, 2025.
3. FT NAVD88 = FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988.



2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

POTENTIOMETRIC CONTOUR MAP
 JANUARY 2025

FIGURE 3B



APPENDICES

APPENDIX A

**LABORATORY ANALYTICAL AND FIELD SAMPLING
REPORTS**

APPENDIX A

*Laboratory Analytical and Field Sampling Reports
August 2024 Monitoring Event*



ANALYTICAL REPORT

PREPARED FOR

Attn: Lauren Hartley
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308
Generated 9/3/2024 3:20:38 PM

JOB DESCRIPTION

Plant McIntosh Landfill 3

JOB NUMBER

680-254950-1

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
9/3/2024 3:20:38 PM

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

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

Qualifiers

HPLC/IC

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

Metals

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

General Chemistry

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

Glossary

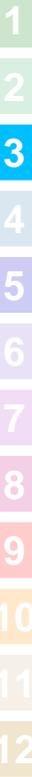
Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (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 Landfill 3

Job ID: 680-254950-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-254950-1	MCI-GWA-7A	Water	08/19/24 15:40	08/21/24 08:45
680-254950-2	MCI-GWA-2B	Water	08/19/24 16:30	08/21/24 08:45
680-254950-3	MCI-GWA-1B	Water	08/20/24 10:15	08/21/24 08:45
680-254950-4	MCI-GWA-3A	Water	08/20/24 11:15	08/21/24 08:45
680-254950-5	MCI-GWC-1A	Water	08/20/24 14:35	08/21/24 08:45
680-254950-6	MCI-LF3-FB-09	Water	08/20/24 14:20	08/21/24 08:45
680-254950-7	MCI-GWC-5A	Water	08/20/24 15:30	08/21/24 08:45
680-254950-8	MCI-LF3-EB-11	Water	08/20/24 16:15	08/21/24 08:45
680-254950-9	MCI-GWC-6A	Water	08/20/24 13:15	08/21/24 08:45
680-254950-10	MCI-LF3-FD-05	Water	08/20/24 00:00	08/21/24 08:45
680-254950-11	MCI-LF3-FD-06	Water	08/20/24 00:00	08/21/24 08:45
680-254950-12	MCI-GWA-4	Water	08/20/24 14:01	08/21/24 08:45
680-254950-13	MCI-LF3-GWA-5	Water	08/20/24 10:40	08/21/24 08:45
680-254950-14	MCI-GWC-2	Water	08/20/24 16:04	08/21/24 08:45
680-254950-15	MCI-LF3-FB-10	Water	08/20/24 16:25	08/21/24 08:45
680-254950-16	MCI-LF3-GWC-4A	Water	08/20/24 16:45	08/21/24 08:45
680-254950-17	MCI-LF3-EB-12	Water	08/20/24 16:50	08/21/24 08:45



Case Narrative

Client: Southern Company
Project: Plant McIntosh Landfill 3

Job ID: 680-254950-1

Job ID: 680-254950-1

Eurofins Savannah

Job Narrative 680-254950-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt

The samples were received on 8/21/2024 8:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.3°C and 2.1°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 sample due to the nature of the sample matrix resulting in elevated reporting limits: MCI-LF3-FD-06 (680-254950-11).

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-852498 was outside control limits: (680-254781-C-1 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.

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

Client Sample ID: MCI-GWA-7A

Lab Sample ID: 680-254950-1

Date Collected: 08/19/24 15:40

Matrix: Water

Date Received: 08/21/24 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.1		5.0	1.0	mg/L			08/30/24 18:29	5
Fluoride	<0.20		0.50	0.20	mg/L			08/30/24 18:29	5
Sulfate	77		5.0	2.0	mg/L			08/30/24 18:29	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.047		0.010	0.00089	mg/L		08/22/24 05:00	08/22/24 19:40	1
Beryllium	0.00048	J	0.0025	0.00020	mg/L		08/22/24 05:00	08/22/24 19:40	1
Boron	1.2		0.080	0.022	mg/L		08/22/24 05:00	08/22/24 19:40	1
Calcium	13		0.50	0.14	mg/L		08/22/24 05:00	08/22/24 19:40	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/22/24 05:00	08/22/24 19:40	1
Cobalt	0.0018	J	0.0025	0.00022	mg/L		08/22/24 05:00	08/22/24 19:40	1
Copper	0.0015	J	0.0020	0.0011	mg/L		08/22/24 05:00	08/22/24 19:40	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/22/24 05:00	08/22/24 19:40	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/22/24 05:00	08/22/24 19:40	1
Zinc	0.019		0.0050	0.0028	mg/L		08/22/24 05:00	08/22/24 19:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	130		10	10	mg/L			08/21/24 12:57	1

Client Sample ID: MCI-GWA-2B

Lab Sample ID: 680-254950-2

Date Collected: 08/19/24 16:30

Matrix: Water

Date Received: 08/21/24 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		5.0	1.0	mg/L			08/30/24 18:39	5
Fluoride	<0.20		0.50	0.20	mg/L			08/30/24 18:39	5
Sulfate	32		5.0	2.0	mg/L			08/30/24 18:39	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.063		0.010	0.00089	mg/L		08/22/24 05:00	08/22/24 19:07	1
Beryllium	0.00090	J	0.0025	0.00020	mg/L		08/22/24 05:00	08/22/24 19:07	1
Boron	0.37		0.080	0.022	mg/L		08/22/24 05:00	08/22/24 19:07	1
Calcium	11		0.50	0.14	mg/L		08/22/24 05:00	08/22/24 19:07	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/22/24 05:00	08/22/24 19:07	1
Cobalt	0.0032		0.0025	0.00022	mg/L		08/22/24 05:00	08/22/24 19:07	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/22/24 05:00	08/22/24 19:07	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/22/24 05:00	08/22/24 19:07	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/22/24 05:00	08/22/24 19:07	1
Zinc	0.040		0.0050	0.0028	mg/L		08/22/24 05:00	08/22/24 19:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	98		10	10	mg/L			08/21/24 12:57	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-254950-3

Date Collected: 08/20/24 10:15

Matrix: Water

Date Received: 08/21/24 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.2		1.0	0.20	mg/L			08/30/24 18:49	1
Fluoride	<0.040		0.10	0.040	mg/L			08/30/24 18:49	1
Sulfate	0.78	J	1.0	0.40	mg/L			08/30/24 18:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.018		0.010	0.00089	mg/L		08/22/24 05:00	08/22/24 19:13	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/24 05:00	08/22/24 19:13	1
Boron	0.055	J	0.080	0.022	mg/L		08/22/24 05:00	08/22/24 19:13	1
Calcium	2.7		0.50	0.14	mg/L		08/22/24 05:00	08/22/24 19:13	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/22/24 05:00	08/22/24 19:13	1
Cobalt	0.00028	J	0.0025	0.00022	mg/L		08/22/24 05:00	08/22/24 19:13	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/22/24 05:00	08/22/24 19:13	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/22/24 05:00	08/22/24 19:13	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/22/24 05:00	08/22/24 19:13	1
Zinc	0.0035	J	0.0050	0.0028	mg/L		08/22/24 05:00	08/22/24 19:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	50		10	10	mg/L			08/21/24 12:57	1

Client Sample ID: MCI-GWA-3A

Lab Sample ID: 680-254950-4

Date Collected: 08/20/24 11:15

Matrix: Water

Date Received: 08/21/24 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33		5.0	1.0	mg/L			08/30/24 19:38	5
Fluoride	<0.20		0.50	0.20	mg/L			08/30/24 19:38	5
Sulfate	<2.0		5.0	2.0	mg/L			08/30/24 19:38	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.14		0.010	0.00089	mg/L		08/22/24 05:00	08/22/24 19:37	1
Beryllium	0.00081	J	0.0025	0.00020	mg/L		08/22/24 05:00	08/22/24 19:37	1
Boron	0.072	J	0.080	0.022	mg/L		08/22/24 05:00	08/22/24 19:37	1
Calcium	5.0		0.50	0.14	mg/L		08/22/24 05:00	08/22/24 19:37	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/22/24 05:00	08/22/24 19:37	1
Cobalt	0.0029		0.0025	0.00022	mg/L		08/22/24 05:00	08/22/24 19:37	1
Copper	0.0030		0.0020	0.0011	mg/L		08/22/24 05:00	08/22/24 19:37	1
Lead	0.00030	J	0.0010	0.00021	mg/L		08/22/24 05:00	08/22/24 19:37	1
Vanadium	0.00095	J	0.0020	0.00063	mg/L		08/22/24 05:00	08/22/24 19:37	1
Zinc	0.019		0.0050	0.0028	mg/L		08/22/24 05:00	08/22/24 19:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	94		10	10	mg/L			08/21/24 12:57	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-254950-5

Date Collected: 08/20/24 14:35

Matrix: Water

Date Received: 08/21/24 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		1.0	0.20	mg/L			08/30/24 19:48	1
Fluoride	<0.040		0.10	0.040	mg/L			08/30/24 19:48	1
Sulfate	0.48	J	1.0	0.40	mg/L			08/30/24 19:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.29		0.010	0.00089	mg/L		08/22/24 05:00	08/22/24 19:04	1
Beryllium	0.00050	J	0.0025	0.00020	mg/L		08/22/24 05:00	08/22/24 19:04	1
Boron	0.24		0.080	0.022	mg/L		08/22/24 05:00	08/22/24 19:04	1
Calcium	2.6		0.50	0.14	mg/L		08/22/24 05:00	08/22/24 19:04	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/22/24 05:00	08/22/24 19:04	1
Cobalt	0.0048		0.0025	0.00022	mg/L		08/22/24 05:00	08/22/24 19:04	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/22/24 05:00	08/22/24 19:04	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/22/24 05:00	08/22/24 19:04	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/22/24 05:00	08/22/24 19:04	1
Zinc	0.020		0.0050	0.0028	mg/L		08/22/24 05:00	08/22/24 19:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	56		10	10	mg/L			08/21/24 12:57	1

Client Sample ID: MCI-LF3-FB-09

Lab Sample ID: 680-254950-6

Date Collected: 08/20/24 14:20

Matrix: Water

Date Received: 08/21/24 08:45

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			08/30/24 19:57	1
Fluoride	<0.040		0.10	0.040	mg/L			08/30/24 19:57	1
Sulfate	<0.40		1.0	0.40	mg/L			08/30/24 19:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		08/22/24 05:00	08/22/24 19:10	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/24 05:00	08/22/24 19:10	1
Boron	<0.022		0.080	0.022	mg/L		08/22/24 05:00	08/22/24 19:10	1
Calcium	<0.14		0.50	0.14	mg/L		08/22/24 05:00	08/22/24 19:10	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/22/24 05:00	08/22/24 19:10	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/24 05:00	08/22/24 19:10	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/22/24 05:00	08/22/24 19:10	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/22/24 05:00	08/22/24 19:10	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/22/24 05:00	08/22/24 19:10	1
Zinc	<0.0028		0.0050	0.0028	mg/L		08/22/24 05:00	08/22/24 19:10	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			08/21/24 12:57	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-254950-7

Date Collected: 08/20/24 15:30

Matrix: Water

Date Received: 08/21/24 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.20	mg/L			08/30/24 20:07	1
Fluoride	<0.040		0.10	0.040	mg/L			08/30/24 20:07	1
Sulfate	0.52	J	1.0	0.40	mg/L			08/30/24 20:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.13		0.010	0.00089	mg/L		08/22/24 05:00	08/22/24 19:15	1
Beryllium	0.00051	J	0.0025	0.00020	mg/L		08/22/24 05:00	08/22/24 19:15	1
Boron	<0.022		0.080	0.022	mg/L		08/22/24 05:00	08/22/24 19:15	1
Calcium	1.6		0.50	0.14	mg/L		08/22/24 05:00	08/22/24 19:15	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/22/24 05:00	08/22/24 19:15	1
Cobalt	0.0037		0.0025	0.00022	mg/L		08/22/24 05:00	08/22/24 19:15	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/22/24 05:00	08/22/24 19:15	1
Lead	0.00024	J	0.0010	0.00021	mg/L		08/22/24 05:00	08/22/24 19:15	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/22/24 05:00	08/22/24 19:15	1
Zinc	0.015		0.0050	0.0028	mg/L		08/22/24 05:00	08/22/24 19:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	39		10	10	mg/L			08/21/24 12:57	1

Client Sample ID: MCI-LF3-EB-11

Lab Sample ID: 680-254950-8

Date Collected: 08/20/24 16:15

Matrix: Water

Date Received: 08/21/24 08:45

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			08/30/24 20:17	1
Fluoride	<0.040		0.10	0.040	mg/L			08/30/24 20:17	1
Sulfate	<0.40		1.0	0.40	mg/L			08/30/24 20:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		08/22/24 05:00	08/22/24 19:23	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/24 05:00	08/22/24 19:23	1
Boron	<0.022		0.080	0.022	mg/L		08/22/24 05:00	08/22/24 19:23	1
Calcium	<0.14		0.50	0.14	mg/L		08/22/24 05:00	08/22/24 19:23	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/22/24 05:00	08/22/24 19:23	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/24 05:00	08/22/24 19:23	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/22/24 05:00	08/22/24 19:23	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/22/24 05:00	08/22/24 19:23	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/22/24 05:00	08/22/24 19:23	1
Zinc	<0.0028		0.0050	0.0028	mg/L		08/22/24 05:00	08/22/24 19:23	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			08/21/24 12:57	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-254950-9

Date Collected: 08/20/24 13:15

Matrix: Water

Date Received: 08/21/24 08:45

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			08/30/24 20:27	1
Fluoride	<0.040		0.10	0.040	mg/L			08/30/24 20:27	1
Sulfate	3.2		1.0	0.40	mg/L			08/30/24 20:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.088		0.010	0.00089	mg/L		08/22/24 05:00	08/22/24 19:45	1
Beryllium	0.00033	J	0.0025	0.00020	mg/L		08/22/24 05:00	08/22/24 19:45	1
Boron	0.034	J	0.080	0.022	mg/L		08/22/24 05:00	08/22/24 19:45	1
Calcium	3.2		0.50	0.14	mg/L		08/22/24 05:00	08/22/24 19:45	1
Chromium	0.0013	J	0.0020	0.0012	mg/L		08/22/24 05:00	08/22/24 19:45	1
Cobalt	0.0010	J	0.0025	0.00022	mg/L		08/22/24 05:00	08/22/24 19:45	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/22/24 05:00	08/22/24 19:45	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/22/24 05:00	08/22/24 19:45	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/22/24 05:00	08/22/24 19:45	1
Zinc	0.0052		0.0050	0.0028	mg/L		08/22/24 05:00	08/22/24 19:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	71		10	10	mg/L			08/21/24 12:57	1

Client Sample ID: MCI-LF3-FD-05

Lab Sample ID: 680-254950-10

Date Collected: 08/20/24 00:00

Matrix: Water

Date Received: 08/21/24 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11	F1	1.0	0.20	mg/L			08/30/24 20:37	1
Fluoride	<0.040		0.10	0.040	mg/L			08/30/24 20:37	1
Sulfate	3.1		1.0	0.40	mg/L			08/30/24 20:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.091		0.010	0.00089	mg/L		08/22/24 05:00	08/22/24 19:29	1
Beryllium	0.00041	J	0.0025	0.00020	mg/L		08/22/24 05:00	08/22/24 19:29	1
Boron	0.034	J	0.080	0.022	mg/L		08/22/24 05:00	08/22/24 19:29	1
Calcium	3.2		0.50	0.14	mg/L		08/22/24 05:00	08/22/24 19:29	1
Chromium	0.0014	J	0.0020	0.0012	mg/L		08/22/24 05:00	08/22/24 19:29	1
Cobalt	0.0010	J	0.0025	0.00022	mg/L		08/22/24 05:00	08/22/24 19:29	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/22/24 05:00	08/22/24 19:29	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/22/24 05:00	08/22/24 19:29	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/22/24 05:00	08/22/24 19:29	1
Zinc	0.0048	J	0.0050	0.0028	mg/L		08/22/24 05:00	08/22/24 19:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	74		10	10	mg/L			08/26/24 12:48	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

Client Sample ID: MCI-LF3-FD-06

Lab Sample ID: 680-254950-11

Date Collected: 08/20/24 00:00

Matrix: Water

Date Received: 08/21/24 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.20	mg/L			08/30/24 21:06	1
Fluoride	<0.040		0.10	0.040	mg/L			08/30/24 21:06	1
Sulfate	<0.40		1.0	0.40	mg/L			08/30/24 21:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.14		0.010	0.00089	mg/L		08/22/24 05:00	08/22/24 19:48	1
Beryllium	0.00036	J	0.0025	0.00020	mg/L		08/22/24 05:00	08/22/24 19:48	1
Boron	<0.022		0.080	0.022	mg/L		08/22/24 05:00	08/22/24 19:48	1
Calcium	1.6		0.50	0.14	mg/L		08/22/24 05:00	08/22/24 19:48	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/22/24 05:00	08/22/24 19:48	1
Cobalt	0.0037		0.0025	0.00022	mg/L		08/22/24 05:00	08/22/24 19:48	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/22/24 05:00	08/22/24 19:48	1
Lead	0.00034	J	0.0010	0.00021	mg/L		08/22/24 05:00	08/22/24 19:48	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/22/24 05:00	08/22/24 19:48	1
Zinc	0.016		0.0050	0.0028	mg/L		08/22/24 05:00	08/22/24 19:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	50		40	40	mg/L			08/26/24 12:48	1

Client Sample ID: MCI-GWA-4

Lab Sample ID: 680-254950-12

Date Collected: 08/20/24 14:01

Matrix: Water

Date Received: 08/21/24 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9		1.0	0.20	mg/L			08/30/24 21:16	1
Fluoride	<0.040		0.10	0.040	mg/L			08/30/24 21:16	1
Sulfate	4.0		1.0	0.40	mg/L			08/30/24 21:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.057		0.010	0.00089	mg/L		08/22/24 05:00	08/22/24 19:43	1
Beryllium	0.00021	J	0.0025	0.00020	mg/L		08/22/24 05:00	08/22/24 19:43	1
Boron	0.023	J	0.080	0.022	mg/L		08/22/24 05:00	08/22/24 19:43	1
Calcium	1.4		0.50	0.14	mg/L		08/22/24 05:00	08/22/24 19:43	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/22/24 05:00	08/22/24 19:43	1
Cobalt	0.0012	J	0.0025	0.00022	mg/L		08/22/24 05:00	08/22/24 19:43	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/22/24 05:00	08/22/24 19:43	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/22/24 05:00	08/22/24 19:43	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/22/24 05:00	08/22/24 19:43	1
Zinc	0.0081		0.0050	0.0028	mg/L		08/22/24 05:00	08/22/24 19:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	40		10	10	mg/L			08/26/24 12:48	1

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

Client Sample ID: MCI-LF3-GWA-5

Lab Sample ID: 680-254950-13

Date Collected: 08/20/24 10:40

Matrix: Water

Date Received: 08/21/24 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.9	F1	1.0	0.20	mg/L			08/30/24 23:52	1
Fluoride	0.13	F1	0.10	0.040	mg/L			08/30/24 23:52	1
Sulfate	19	F1	1.0	0.40	mg/L			08/30/24 23:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.11		0.010	0.00089	mg/L		08/22/24 05:00	08/22/24 19:56	1
Beryllium	0.00034	J	0.0025	0.00020	mg/L		08/22/24 05:00	08/22/24 19:56	1
Boron	0.053	J	0.080	0.022	mg/L		08/22/24 05:00	08/22/24 19:56	1
Calcium	2.8		0.50	0.14	mg/L		08/22/24 05:00	08/22/24 19:56	1
Chromium	0.0012	J	0.0020	0.0012	mg/L		08/22/24 05:00	08/22/24 19:56	1
Cobalt	0.0012	J	0.0025	0.00022	mg/L		08/22/24 05:00	08/22/24 19:56	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/22/24 05:00	08/22/24 19:56	1
Lead	0.00046	J	0.0010	0.00021	mg/L		08/22/24 05:00	08/22/24 19:56	1
Vanadium	0.0012	J	0.0020	0.00063	mg/L		08/22/24 05:00	08/22/24 19:56	1
Zinc	0.0070		0.0050	0.0028	mg/L		08/22/24 05:00	08/22/24 19:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	53		10	10	mg/L			08/26/24 12:48	1

Client Sample ID: MCI-GWC-2

Lab Sample ID: 680-254950-14

Date Collected: 08/20/24 16:04

Matrix: Water

Date Received: 08/21/24 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.0		1.0	0.20	mg/L			08/31/24 00:22	1
Fluoride	<0.040		0.10	0.040	mg/L			08/31/24 00:22	1
Sulfate	5.1		1.0	0.40	mg/L			08/31/24 00:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.097		0.010	0.00089	mg/L		08/22/24 05:00	08/22/24 19:34	1
Beryllium	0.00026	J	0.0025	0.00020	mg/L		08/22/24 05:00	08/22/24 19:34	1
Boron	0.11		0.080	0.022	mg/L		08/22/24 05:00	08/22/24 19:34	1
Calcium	10		0.50	0.14	mg/L		08/22/24 05:00	08/22/24 19:34	1
Chromium	0.0027		0.0020	0.0012	mg/L		08/22/24 05:00	08/22/24 19:34	1
Cobalt	0.0015	J	0.0025	0.00022	mg/L		08/22/24 05:00	08/22/24 19:34	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/22/24 05:00	08/22/24 19:34	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/22/24 05:00	08/22/24 19:34	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/22/24 05:00	08/22/24 19:34	1
Zinc	0.0067		0.0050	0.0028	mg/L		08/22/24 05:00	08/22/24 19:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	60		10	10	mg/L			08/26/24 12:48	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

Client Sample ID: MCI-LF3-FB-10

Lab Sample ID: 680-254950-15

Date Collected: 08/20/24 16:25

Matrix: Water

Date Received: 08/21/24 08:45

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			08/31/24 00:31	1
Fluoride	<0.040		0.10	0.040	mg/L			08/31/24 00:31	1
Sulfate	<0.40		1.0	0.40	mg/L			08/31/24 00:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		08/22/24 05:00	08/22/24 19:26	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/24 05:00	08/22/24 19:26	1
Boron	<0.022		0.080	0.022	mg/L		08/22/24 05:00	08/22/24 19:26	1
Calcium	<0.14		0.50	0.14	mg/L		08/22/24 05:00	08/22/24 19:26	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/22/24 05:00	08/22/24 19:26	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/24 05:00	08/22/24 19:26	1
Copper	0.0068		0.0020	0.0011	mg/L		08/22/24 05:00	08/22/24 19:26	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/22/24 05:00	08/22/24 19:26	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/22/24 05:00	08/22/24 19:26	1
Zinc	<0.0028		0.0050	0.0028	mg/L		08/22/24 05:00	08/22/24 19:26	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			08/26/24 12:48	1

Client Sample ID: MCI-LF3-GWC-4A

Lab Sample ID: 680-254950-16

Date Collected: 08/20/24 16:45

Matrix: Water

Date Received: 08/21/24 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.9		1.0	0.20	mg/L			08/31/24 00:41	1
Fluoride	<0.040		0.10	0.040	mg/L			08/31/24 00:41	1
Sulfate	0.95	J	1.0	0.40	mg/L			08/31/24 00:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.046		0.010	0.00089	mg/L		08/22/24 05:00	08/22/24 18:56	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/24 05:00	08/22/24 18:56	1
Boron	<0.022		0.080	0.022	mg/L		08/22/24 05:00	08/22/24 18:56	1
Calcium	0.36	J	0.50	0.14	mg/L		08/22/24 05:00	08/22/24 18:56	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/22/24 05:00	08/22/24 18:56	1
Cobalt	0.00048	J	0.0025	0.00022	mg/L		08/22/24 05:00	08/22/24 18:56	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/22/24 05:00	08/22/24 18:56	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/22/24 05:00	08/22/24 18:56	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/22/24 05:00	08/22/24 18:56	1
Zinc	<0.0028		0.0050	0.0028	mg/L		08/22/24 05:00	08/22/24 18:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	23		10	10	mg/L			08/26/24 12:48	1

Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

Client Sample ID: MCI-LF3-EB-12

Lab Sample ID: 680-254950-17

Date Collected: 08/20/24 16:50

Matrix: Water

Date Received: 08/21/24 08:45

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			08/31/24 00:51	1
Fluoride	<0.040		0.10	0.040	mg/L			08/31/24 00:51	1
Sulfate	<0.40		1.0	0.40	mg/L			08/31/24 00:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.030		0.010	0.00089	mg/L		08/22/24 05:00	08/22/24 19:32	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/22/24 05:00	08/22/24 19:32	1
Boron	<0.022		0.080	0.022	mg/L		08/22/24 05:00	08/22/24 19:32	1
Calcium	<0.14		0.50	0.14	mg/L		08/22/24 05:00	08/22/24 19:32	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/22/24 05:00	08/22/24 19:32	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/22/24 05:00	08/22/24 19:32	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/22/24 05:00	08/22/24 19:32	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/22/24 05:00	08/22/24 19:32	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/22/24 05:00	08/22/24 19:32	1
Zinc	<0.0028		0.0050	0.0028	mg/L		08/22/24 05:00	08/22/24 19:32	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			08/26/24 12:48	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

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

Lab Sample ID: MB 680-853859/12
Matrix: Water
Analysis Batch: 853859

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/30/24 16:17	1
Fluoride	<0.040		0.10	0.040	mg/L			08/30/24 16:17	1
Sulfate	<0.40		1.0	0.40	mg/L			08/30/24 16:17	1

Lab Sample ID: LCS 680-853859/13
Matrix: Water
Analysis Batch: 853859

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.5		mg/L		105	90 - 110
Fluoride	2.00	2.04		mg/L		102	90 - 110
Sulfate	10.0	10.5		mg/L		105	90 - 110

Lab Sample ID: LCSD 680-853859/14
Matrix: Water
Analysis Batch: 853859

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.3		mg/L		103	90 - 110	2	15
Fluoride	2.00	2.03		mg/L		101	90 - 110	1	15
Sulfate	10.0	10.5		mg/L		105	90 - 110	1	15

Lab Sample ID: 680-254950-10 MS
Matrix: Water
Analysis Batch: 853859

Client Sample ID: MCI-LF3-FD-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	11	F1	10.0	18.2	F1	mg/L		76	80 - 120
Fluoride	<0.040		2.00	1.65		mg/L		82	80 - 120
Sulfate	3.1		10.0	13.1		mg/L		101	80 - 120

Lab Sample ID: 680-254950-10 MSD
Matrix: Water
Analysis Batch: 853859

Client Sample ID: MCI-LF3-FD-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11	F1	10.0	18.8		mg/L		83	80 - 120	3	15
Fluoride	<0.040		2.00	1.72		mg/L		86	80 - 120	5	15
Sulfate	3.1		10.0	14.2		mg/L		111	80 - 120	8	15

Lab Sample ID: MB 680-854071/43
Matrix: Water
Analysis Batch: 854071

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			08/30/24 21:45	1
Fluoride	<0.040		0.10	0.040	mg/L			08/30/24 21:45	1
Sulfate	<0.40		1.0	0.40	mg/L			08/30/24 21:45	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

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

Lab Sample ID: LCS 680-854071/44
Matrix: Water
Analysis Batch: 854071

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	10.0	10.3		mg/L		103	90 - 110	
Fluoride	2.00	2.07		mg/L		104	90 - 110	
Sulfate	10.0	10.4		mg/L		104	90 - 110	

Lab Sample ID: LCSD 680-854071/45
Matrix: Water
Analysis Batch: 854071

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit	
Chloride	10.0	10.3		mg/L		103	90 - 110	0	15	
Fluoride	2.00	2.06		mg/L		103	90 - 110	0	15	
Sulfate	10.0	10.4		mg/L		104	90 - 110	0	15	

Lab Sample ID: 680-254950-13 MS
Matrix: Water
Analysis Batch: 854071

Client Sample ID: MCI-LF3-GWA-5
Prep Type: Total/NA

Analyte	Sample		Spike Added	MS		Unit	D	%Rec	%Rec Limits	
	Result	Qualifier		Result	Qualifier					
Chloride	6.9	F1	20.0	17.5	F1	mg/L		53	80 - 120	
Fluoride	0.13	F1	4.00	4.31	E	mg/L		105	80 - 120	
Sulfate	19	F1	20.0	37.8		mg/L		97	80 - 120	

Lab Sample ID: 680-254950-13 MSD
Matrix: Water
Analysis Batch: 854071

Client Sample ID: MCI-LF3-GWA-5
Prep Type: Total/NA

Analyte	Sample		Spike Added	MSD		Unit	D	%Rec	%Rec Limits		RPD Limit	
	Result	Qualifier		Result	Qualifier							
Chloride	6.9	F1	20.0	17.5	F1	mg/L		53	80 - 120	0	15	
Fluoride	0.13	F1	4.00	4.39	E	mg/L		106	80 - 120	2	15	
Sulfate	19	F1	20.0	38.4		mg/L		99	80 - 120	2	15	

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-852574/1-A
Matrix: Water
Analysis Batch: 852813

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 852574

Analyte	MB		RL	MDL		Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier		Result	Qualifier					
Barium	<0.00089		0.010	0.00089		mg/L		08/22/24 05:00	08/22/24 18:51	1
Beryllium	<0.00020		0.0025	0.00020		mg/L		08/22/24 05:00	08/22/24 18:51	1
Boron	<0.022		0.080	0.022		mg/L		08/22/24 05:00	08/22/24 18:51	1
Calcium	<0.14		0.50	0.14		mg/L		08/22/24 05:00	08/22/24 18:51	1
Chromium	<0.0012		0.0020	0.0012		mg/L		08/22/24 05:00	08/22/24 18:51	1
Cobalt	<0.00022		0.0025	0.00022		mg/L		08/22/24 05:00	08/22/24 18:51	1
Copper	<0.0011		0.0020	0.0011		mg/L		08/22/24 05:00	08/22/24 18:51	1
Lead	<0.00021		0.0010	0.00021		mg/L		08/22/24 05:00	08/22/24 18:51	1
Vanadium	<0.00063		0.0020	0.00063		mg/L		08/22/24 05:00	08/22/24 18:51	1
Zinc	<0.0028		0.0050	0.0028		mg/L		08/22/24 05:00	08/22/24 18:51	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

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

Lab Sample ID: LCS 680-852574/2-A
Matrix: Water
Analysis Batch: 852813

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 852574

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Barium	0.100	0.105		mg/L		105	80 - 120	
Beryllium	0.0500	0.0552		mg/L		110	80 - 120	
Boron	0.400	0.423		mg/L		106	80 - 120	
Calcium	5.00	5.13		mg/L		103	80 - 120	
Chromium	0.100	0.107		mg/L		107	80 - 120	
Cobalt	0.0500	0.0547		mg/L		109	80 - 120	
Copper	0.101	0.106		mg/L		105	80 - 120	
Lead	0.500	0.502		mg/L		100	80 - 120	
Vanadium	0.100	0.103		mg/L		103	80 - 120	
Zinc	0.100	0.107		mg/L		107	80 - 120	

Lab Sample ID: 680-254950-16 MS
Matrix: Water
Analysis Batch: 852813

Client Sample ID: MCI-LF3-GWC-4A
Prep Type: Total Recoverable
Prep Batch: 852574

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Barium	0.046		0.100	0.153		mg/L		107	75 - 125	
Beryllium	<0.00020		0.0500	0.0537		mg/L		107	75 - 125	
Boron	<0.022		0.400	0.433		mg/L		108	75 - 125	
Calcium	0.36	J	5.00	5.52		mg/L		103	75 - 125	
Chromium	<0.0012		0.100	0.105		mg/L		105	75 - 125	
Cobalt	0.00048	J	0.0500	0.0543		mg/L		108	75 - 125	
Copper	<0.0011		0.101	0.107		mg/L		106	75 - 125	
Lead	<0.00021		0.500	0.506		mg/L		101	75 - 125	
Vanadium	<0.00063		0.100	0.101		mg/L		101	75 - 125	
Zinc	<0.0028		0.100	0.111		mg/L		111	75 - 125	

Lab Sample ID: 680-254950-16 MSD
Matrix: Water
Analysis Batch: 852813

Client Sample ID: MCI-LF3-GWC-4A
Prep Type: Total Recoverable
Prep Batch: 852574

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	
									Limits		RPD	Limit
Barium	0.046		0.100	0.149		mg/L		103	75 - 125		3	20
Beryllium	<0.00020		0.0500	0.0573		mg/L		115	75 - 125		7	20
Boron	<0.022		0.400	0.463		mg/L		116	75 - 125		7	20
Calcium	0.36	J	5.00	5.73		mg/L		107	75 - 125		4	20
Chromium	<0.0012		0.100	0.109		mg/L		109	75 - 125		4	20
Cobalt	0.00048	J	0.0500	0.0572		mg/L		113	75 - 125		5	20
Copper	<0.0011		0.101	0.112		mg/L		111	75 - 125		4	20
Lead	<0.00021		0.500	0.522		mg/L		104	75 - 125		3	20
Vanadium	<0.00063		0.100	0.107		mg/L		107	75 - 125		6	20
Zinc	<0.0028		0.100	0.116		mg/L		116	75 - 125		5	20

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

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

Lab Sample ID: MB 680-852498/1
Matrix: Water
Analysis Batch: 852498

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			08/21/24 12:57	1

Lab Sample ID: LCS 680-852498/2
Matrix: Water
Analysis Batch: 852498

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	2440	2420		mg/L		99	80 - 120

Lab Sample ID: LCSD 680-852498/3
Matrix: Water
Analysis Batch: 852498

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2440	2400		mg/L		98	80 - 120	1	25

Lab Sample ID: 680-254781-C-1 DU
Matrix: Water
Analysis Batch: 852498

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	130		104	F5	mg/L		21	5

Lab Sample ID: 752-23008-E-1 DU
Matrix: Water
Analysis Batch: 852498

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	230		224		mg/L		2	5

Lab Sample ID: MB 680-853247/1
Matrix: Water
Analysis Batch: 853247

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			08/26/24 12:48	1

Lab Sample ID: LCS 680-853247/2
Matrix: Water
Analysis Batch: 853247

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	2440	2420		mg/L		99	80 - 120

Lab Sample ID: LCSD 680-853247/3
Matrix: Water
Analysis Batch: 853247

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2440	2390		mg/L		98	80 - 120	1	25

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

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

Lab Sample ID: 680-254950-11 DU
Matrix: Water
Analysis Batch: 853247

Client Sample ID: MCI-LF3-FD-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	50		50.0		mg/L		0	5

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

QC Association Summary

Client: Southern Company
 Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

HPLC/IC

Analysis Batch: 853859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254950-1	MCI-GWA-7A	Total/NA	Water	300.0-1993 R2.1	
680-254950-2	MCI-GWA-2B	Total/NA	Water	300.0-1993 R2.1	
680-254950-3	MCI-GWA-1B	Total/NA	Water	300.0-1993 R2.1	
680-254950-4	MCI-GWA-3A	Total/NA	Water	300.0-1993 R2.1	
680-254950-5	MCI-GWC-1A	Total/NA	Water	300.0-1993 R2.1	
680-254950-6	MCI-LF3-FB-09	Total/NA	Water	300.0-1993 R2.1	
680-254950-7	MCI-GWC-5A	Total/NA	Water	300.0-1993 R2.1	
680-254950-8	MCI-LF3-EB-11	Total/NA	Water	300.0-1993 R2.1	
680-254950-9	MCI-GWC-6A	Total/NA	Water	300.0-1993 R2.1	
680-254950-10	MCI-LF3-FD-05	Total/NA	Water	300.0-1993 R2.1	
680-254950-11	MCI-LF3-FD-06	Total/NA	Water	300.0-1993 R2.1	
680-254950-12	MCI-GWA-4	Total/NA	Water	300.0-1993 R2.1	
MB 680-853859/12	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-853859/13	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-853859/14	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-254950-10 MS	MCI-LF3-FD-05	Total/NA	Water	300.0-1993 R2.1	
680-254950-10 MSD	MCI-LF3-FD-05	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 854071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254950-13	MCI-LF3-GWA-5	Total/NA	Water	300.0-1993 R2.1	
680-254950-14	MCI-GWC-2	Total/NA	Water	300.0-1993 R2.1	
680-254950-15	MCI-LF3-FB-10	Total/NA	Water	300.0-1993 R2.1	
680-254950-16	MCI-LF3-GWC-4A	Total/NA	Water	300.0-1993 R2.1	
680-254950-17	MCI-LF3-EB-12	Total/NA	Water	300.0-1993 R2.1	
MB 680-854071/43	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-854071/44	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-854071/45	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-254950-13 MS	MCI-LF3-GWA-5	Total/NA	Water	300.0-1993 R2.1	
680-254950-13 MSD	MCI-LF3-GWA-5	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 852574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254950-1	MCI-GWA-7A	Total Recoverable	Water	3005A	
680-254950-2	MCI-GWA-2B	Total Recoverable	Water	3005A	
680-254950-3	MCI-GWA-1B	Total Recoverable	Water	3005A	
680-254950-4	MCI-GWA-3A	Total Recoverable	Water	3005A	
680-254950-5	MCI-GWC-1A	Total Recoverable	Water	3005A	
680-254950-6	MCI-LF3-FB-09	Total Recoverable	Water	3005A	
680-254950-7	MCI-GWC-5A	Total Recoverable	Water	3005A	
680-254950-8	MCI-LF3-EB-11	Total Recoverable	Water	3005A	
680-254950-9	MCI-GWC-6A	Total Recoverable	Water	3005A	
680-254950-10	MCI-LF3-FD-05	Total Recoverable	Water	3005A	
680-254950-11	MCI-LF3-FD-06	Total Recoverable	Water	3005A	
680-254950-12	MCI-GWA-4	Total Recoverable	Water	3005A	
680-254950-13	MCI-LF3-GWA-5	Total Recoverable	Water	3005A	
680-254950-14	MCI-GWC-2	Total Recoverable	Water	3005A	
680-254950-15	MCI-LF3-FB-10	Total Recoverable	Water	3005A	
680-254950-16	MCI-LF3-GWC-4A	Total Recoverable	Water	3005A	

QC Association Summary

Client: Southern Company
 Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

Metals (Continued)

Prep Batch: 852574 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254950-17	MCI-LF3-EB-12	Total Recoverable	Water	3005A	
MB 680-852574/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-852574/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-254950-16 MS	MCI-LF3-GWC-4A	Total Recoverable	Water	3005A	
680-254950-16 MSD	MCI-LF3-GWC-4A	Total Recoverable	Water	3005A	

Analysis Batch: 852813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254950-1	MCI-GWA-7A	Total Recoverable	Water	6020B	852574
680-254950-2	MCI-GWA-2B	Total Recoverable	Water	6020B	852574
680-254950-3	MCI-GWA-1B	Total Recoverable	Water	6020B	852574
680-254950-4	MCI-GWA-3A	Total Recoverable	Water	6020B	852574
680-254950-5	MCI-GWC-1A	Total Recoverable	Water	6020B	852574
680-254950-6	MCI-LF3-FB-09	Total Recoverable	Water	6020B	852574
680-254950-7	MCI-GWC-5A	Total Recoverable	Water	6020B	852574
680-254950-8	MCI-LF3-EB-11	Total Recoverable	Water	6020B	852574
680-254950-9	MCI-GWC-6A	Total Recoverable	Water	6020B	852574
680-254950-10	MCI-LF3-FD-05	Total Recoverable	Water	6020B	852574
680-254950-11	MCI-LF3-FD-06	Total Recoverable	Water	6020B	852574
680-254950-12	MCI-GWA-4	Total Recoverable	Water	6020B	852574
680-254950-13	MCI-LF3-GWA-5	Total Recoverable	Water	6020B	852574
680-254950-14	MCI-GWC-2	Total Recoverable	Water	6020B	852574
680-254950-15	MCI-LF3-FB-10	Total Recoverable	Water	6020B	852574
680-254950-16	MCI-LF3-GWC-4A	Total Recoverable	Water	6020B	852574
680-254950-17	MCI-LF3-EB-12	Total Recoverable	Water	6020B	852574
MB 680-852574/1-A	Method Blank	Total Recoverable	Water	6020B	852574
LCS 680-852574/2-A	Lab Control Sample	Total Recoverable	Water	6020B	852574
680-254950-16 MS	MCI-LF3-GWC-4A	Total Recoverable	Water	6020B	852574
680-254950-16 MSD	MCI-LF3-GWC-4A	Total Recoverable	Water	6020B	852574

General Chemistry

Analysis Batch: 852498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254950-1	MCI-GWA-7A	Total/NA	Water	2540C-2011	
680-254950-2	MCI-GWA-2B	Total/NA	Water	2540C-2011	
680-254950-3	MCI-GWA-1B	Total/NA	Water	2540C-2011	
680-254950-4	MCI-GWA-3A	Total/NA	Water	2540C-2011	
680-254950-5	MCI-GWC-1A	Total/NA	Water	2540C-2011	
680-254950-6	MCI-LF3-FB-09	Total/NA	Water	2540C-2011	
680-254950-7	MCI-GWC-5A	Total/NA	Water	2540C-2011	
680-254950-8	MCI-LF3-EB-11	Total/NA	Water	2540C-2011	
680-254950-9	MCI-GWC-6A	Total/NA	Water	2540C-2011	
MB 680-852498/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-852498/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-852498/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-254781-C-1 DU	Duplicate	Total/NA	Water	2540C-2011	
752-23008-E-1 DU	Duplicate	Total/NA	Water	2540C-2011	

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

General Chemistry

Analysis Batch: 853247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-254950-10	MCI-LF3-FD-05	Total/NA	Water	2540C-2011	
680-254950-11	MCI-LF3-FD-06	Total/NA	Water	2540C-2011	
680-254950-12	MCI-GWA-4	Total/NA	Water	2540C-2011	
680-254950-13	MCI-LF3-GWA-5	Total/NA	Water	2540C-2011	
680-254950-14	MCI-GWC-2	Total/NA	Water	2540C-2011	
680-254950-15	MCI-LF3-FB-10	Total/NA	Water	2540C-2011	
680-254950-16	MCI-LF3-GWC-4A	Total/NA	Water	2540C-2011	
680-254950-17	MCI-LF3-EB-12	Total/NA	Water	2540C-2011	
MB 680-853247/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-853247/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-853247/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-254950-11 DU	MCI-LF3-FD-06	Total/NA	Water	2540C-2011	

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

Client Sample ID: MCI-GWA-7A

Lab Sample ID: 680-254950-1

Date Collected: 08/19/24 15:40

Matrix: Water

Date Received: 08/21/24 08:45

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		5	5 mL	5 mL	853859	08/30/24 18:29	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	852574	08/22/24 05:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			852813	08/22/24 19:40	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	852498	08/21/24 12:57	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWA-2B

Lab Sample ID: 680-254950-2

Date Collected: 08/19/24 16:30

Matrix: Water

Date Received: 08/21/24 08:45

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		5	5 mL	5 mL	853859	08/30/24 18:39	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	852574	08/22/24 05:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			852813	08/22/24 19:07	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	852498	08/21/24 12:57	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-254950-3

Date Collected: 08/20/24 10:15

Matrix: Water

Date Received: 08/21/24 08:45

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	853859	08/30/24 18:49	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	852574	08/22/24 05:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			852813	08/22/24 19:13	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	852498	08/21/24 12:57	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWA-3A

Lab Sample ID: 680-254950-4

Date Collected: 08/20/24 11:15

Matrix: Water

Date Received: 08/21/24 08:45

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		5	5 mL	5 mL	853859	08/30/24 19:38	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	852574	08/22/24 05:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			852813	08/22/24 19:37	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	852498	08/21/24 12:57	PG	EET SAV
Instrument ID: NOEQUIP										

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-254950-5

Date Collected: 08/20/24 14:35

Matrix: Water

Date Received: 08/21/24 08:45

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	853859	08/30/24 19:48	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	852574	08/22/24 05:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			852813	08/22/24 19:04	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	852498	08/21/24 12:57	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-FB-09

Lab Sample ID: 680-254950-6

Date Collected: 08/20/24 14:20

Matrix: Water

Date Received: 08/21/24 08:45

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	853859	08/30/24 19:57	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	852574	08/22/24 05:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			852813	08/22/24 19:10	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	852498	08/21/24 12:57	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-254950-7

Date Collected: 08/20/24 15:30

Matrix: Water

Date Received: 08/21/24 08:45

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	853859	08/30/24 20:07	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	852574	08/22/24 05:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			852813	08/22/24 19:15	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	852498	08/21/24 12:57	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-EB-11

Lab Sample ID: 680-254950-8

Date Collected: 08/20/24 16:15

Matrix: Water

Date Received: 08/21/24 08:45

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	853859	08/30/24 20:17	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	852574	08/22/24 05:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			852813	08/22/24 19:23	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	852498	08/21/24 12:57	PG	EET SAV
Instrument ID: NOEQUIP										

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-254950-9

Date Collected: 08/20/24 13:15

Matrix: Water

Date Received: 08/21/24 08:45

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	853859	08/30/24 20:27	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	852574	08/22/24 05:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			852813	08/22/24 19:45	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	852498	08/21/24 12:57	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-FD-05

Lab Sample ID: 680-254950-10

Date Collected: 08/20/24 00:00

Matrix: Water

Date Received: 08/21/24 08:45

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	853859	08/30/24 20:37	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	852574	08/22/24 05:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			852813	08/22/24 19:29	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	853247	08/26/24 12:48	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-FD-06

Lab Sample ID: 680-254950-11

Date Collected: 08/20/24 00:00

Matrix: Water

Date Received: 08/21/24 08:45

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	853859	08/30/24 21:06	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	852574	08/22/24 05:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			852813	08/22/24 19:48	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	50 mL	200 mL	853247	08/26/24 12:48	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWA-4

Lab Sample ID: 680-254950-12

Date Collected: 08/20/24 14:01

Matrix: Water

Date Received: 08/21/24 08:45

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	853859	08/30/24 21:16	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	852574	08/22/24 05:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			852813	08/22/24 19:43	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	853247	08/26/24 12:48	PG	EET SAV
Instrument ID: NOEQUIP										

Eurofins Savannah

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

Client Sample ID: MCI-LF3-GWA-5

Lab Sample ID: 680-254950-13

Date Collected: 08/20/24 10:40

Matrix: Water

Date Received: 08/21/24 08:45

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	854071	08/30/24 23:52	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	852574	08/22/24 05:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			852813	08/22/24 19:56	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	853247	08/26/24 12:48	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWC-2

Lab Sample ID: 680-254950-14

Date Collected: 08/20/24 16:04

Matrix: Water

Date Received: 08/21/24 08:45

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	854071	08/31/24 00:22	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	852574	08/22/24 05:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			852813	08/22/24 19:34	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	853247	08/26/24 12:48	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-FB-10

Lab Sample ID: 680-254950-15

Date Collected: 08/20/24 16:25

Matrix: Water

Date Received: 08/21/24 08:45

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	854071	08/31/24 00:31	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	852574	08/22/24 05:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			852813	08/22/24 19:26	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	853247	08/26/24 12:48	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-GWC-4A

Lab Sample ID: 680-254950-16

Date Collected: 08/20/24 16:45

Matrix: Water

Date Received: 08/21/24 08:45

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	854071	08/31/24 00:41	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	852574	08/22/24 05:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			852813	08/22/24 18:56	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	853247	08/26/24 12:48	PG	EET SAV
Instrument ID: NOEQUIP										

Eurofins Savannah

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

Client Sample ID: MCI-LF3-EB-12

Lab Sample ID: 680-254950-17

Date Collected: 08/20/24 16:50

Matrix: Water

Date Received: 08/21/24 08:45

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	854071	08/31/24 00:51	KMB	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	852574	08/22/24 05:00	RR	EET SAV
Total Recoverable	Analysis	6020B		1			852813	08/22/24 19:32	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	853247	08/26/24 12:48	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 Landfill 3

Job ID: 680-254950-1

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-25
Georgia	State	E87052	06-30-25

1

2

3

4

5

6

7

8

9

10

11

12

Method Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-254950-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	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

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



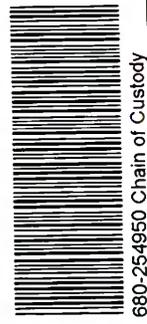
Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record



Client Information		Sampler: <u>J. B. Sted J. May</u> ACC		Lab PM: David Fuller / Phone: 770-344-8986		Carrier Tracking No(s):		COC No:			
Client Contact: SCS Contacts		Phone: <u>770-594-5948</u>		E-Mail: <u>david.fuller@et.eurofinsus.com</u>				Page: <u>1 of 2</u>			
Company: GA Power		Due Date Requested:		Analysis Requested				Job #:			
Address: 241 Ralph McGill Blvd SE		TAT Requested (days):		Field Filtered Sample (Yes or No) <input type="checkbox"/> Perform MS/MSD (Yes or No) <input type="checkbox"/> 6020B - App III and 8 State Permit Metals - B, Ca, Ba, Be, Cr, Co, Cu, Pb, V, Zn <input type="checkbox"/> 300_ORGFM_28D - Chloride, Fluoride, Sulfate <input type="checkbox"/> 2540C - Total Dissolved Solids (TDS) <input type="checkbox"/>		Total Number of containers		Preservation Codes:			
City: Atlanta								A - HCL		M - Hexane	
State, Zip: GA, 30308								B - NaOH		N - None	
Phone: 404-506-7116(Tel)		Lab Project #: 68027732						C - Zn Acetate		O - AsNaO2	
Email: SCS Contacts / ACC Contacts		PO #: GPC82130-0002 / PO Line #4						D - Nitric Acid		P - Na2O4S	
Project Name: Plant McIntosh Landfill 3		Project #:		E - NaHSO4		Q - Na2SO3					
Site: Georgia		SSOW#:		F - MeOH		R - Na2S2O3					
				G - Amchlor		S - H2SO4					
				H - Ascorbic Acid		T - TSP Dodecahydrate					
				I - Ice		U - Acetone					
				J - DI Water		V - MCAA					
				K - EDTA		W - pH 4-5					
				L - EDA		Z - other (specify)					
						Other:					
						Task Code: MCI-CCR-ASSMT-2024S2					
						Special Instructions/Note: Full APP III + 8 State Metals					
Sample Identification		Sample Date (mm/dd/yy)		Sample Time (hhmm)		Sample Type (C=Comp, G=grab)		Matrix (WG=ground water, WS=surface water, WQ=quality control)			
								Preservation Code:			
MCI- <u>6WA-7A</u>		<u>08/19/24</u>		<u>1540</u>		G WG		N N			
MCI- <u>6WA-2B</u>		<u>08/19/24</u>		<u>1630</u>		G WG		N N			
MCI- <u>6WA-1B</u>		<u>08/20/24</u>		<u>1015</u>		G WG		N N			
MCI- <u>6WA-3A</u>		<u>08/20/24</u>		<u>1115</u>		G WG		N N			
MCI- <u>6WC-1A</u>		<u>08/20/24</u>		<u>1435</u>		G WG		N N			
MCI- <u>LF3-FB-09</u>		<u>08/20/24</u>		<u>1420</u>		G WQ		N N			
MCI- <u>6WC-5A</u>		<u>08/20/24</u>		<u>1530</u>		G WG		N N			
MCI- <u>LF3-EB-11</u>		<u>08/20/24</u>		<u>1615</u>		G WQ		N N			
MCI- <u>6WC-6A</u>		<u>08/20/24</u>		<u>1315</u>		G WG		N N			
MCI- <u>LF3-FD-05</u>		<u>08/20/24</u>		/		G WG		N N			
MCI- <u>LF3-FD-06</u>		<u>08/20/24</u>		/		G WG		N N			
Possible Hazard Identification		<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)							
Deliverable Requested: I, II, III, IV, Other (specify)				<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by: <u>[Signature]</u>		Date/Time: <u>8/21/24 0845</u>		Company: <u>ACC</u>		Received by:		Date/Time:			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:			
Relinquished by:		Date/Time:		Company:		Received by: <u>[Signature]</u>		Date/Time: <u>8/21/24 0845</u>			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>13/13 2.1/2.1</u>							



Eurofins Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record



Environment Testing
America

Client Information		Sampler: <i>J. Berford J. May</i> ACC		Lab PM: David Fuller / Phone: 770-344-8986		Carrier Tracking No(s):		COC No:			
Client Contact: SCS Contacts		Phone: <i>770-594-5998</i>		E-Mail: david.fuller@et.eurofinsus.com				Page: <i>2 of 2</i>			
Company: GA Power		Due Date Requested:		Analysis Requested				Job #:			
Address: 241 Ralph McGill Blvd SE		TAT Requested (days):		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> 6020B - App III and 8 State Permit Metals - B, Ca; Ba, Be, Cr, Co, Cu, Pb, V, Zn 300_ORGFM_280 - Chloride, Fluoride, Sulfate 2540C - Total Dissolved Solids (TDS)		Total Number of containers		Preservation Codes:			
City: Atlanta								A - HCL		M - Hexane	
State, Zip: GA, 30308								B - NaOH		N - None	
Phone: 404-506-7116(Tel)		Lab Project #: 68027732						C - Zn Acetate		O - AsNaO2	
Email: SCS Contacts / ACC Contacts		PO #: GPC82130-0002 / PO Line #4						D - Nitric Acid		P - Na2O4S	
Project Name: Plant McIntosh Landfill 3		Project #:		E - NaHSO4		Q - Na2SO3					
Site: Georgia		SSOW#:		F - MeOH		R - Na2SO3					
				G - Amchlor		S - H2SO4					
				H - Ascorbic Acid		T - TSP Dodecahydrate					
				I - Ice		U - Acetone					
				J - DI Water		V - MCAA					
				K - EDTA		W - pH 4-5					
				L - EDA		Z - other (specify)					
								Other:			
								Task Code: MCI-CCR-ASSMT-2024S2			
								Special Instructions/Note: Full APP III + 8 State Metals			
Sample Identification		Sample Date (mm/dd/yy)	Sample Time (hhmm)	Sample Type (C=Comp, G=grab)	Matrix (WG=ground water, WS=surface water, WQ=quality control)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B - App III and 8 State Permit Metals - B, Ca; Ba, Be, Cr, Co, Cu, Pb, V, Zn	300_ORGFM_280 - Chloride, Fluoride, Sulfate	2540C - Total Dissolved Solids (TDS)	Total Number of containers
				Preservation Code:		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	D	N	N	
MCI- <i>6WA-4</i>		<i>08/20/24</i>	<i>1401</i>	G	WG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				3
MCI- <i>LF3-6WA-5</i>		<i>08/20/24</i>	<i>1040</i>	G	WG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				3
MCI- <i>6WC-2</i>		<i>08/20/24</i>	<i>1604</i>	G	WG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				3
MCI- <i>LF3-FB-10</i>		<i>08/20/24</i>	<i>1625</i>	G	WQ	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				3
MCI- <i>LF3-6WC-4A</i>		<i>08/20/24</i>	<i>1645</i>	G	WG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				3
MCI- <i>LF3-FB-12</i>		<i>08/20/24</i>	<i>1650</i>	G	WQ	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				3
MCI-				G		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
MCI-				G		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
MCI-				G		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
MCI-				G		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
MCI-				G		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
MCI-				G		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Possible Hazard Identification		<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)		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements: State Permit Metals: barium, beryllium, chromium, cobalt, copper, lead, vanadium, zinc		Deliverable Requested: I, II, III, IV, Other (specify)	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by: <i>[Signature]</i>		Date/Time: <i>8/21/24 0845</i>		Company: <i>ACG</i>		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by: <i>C. M...</i>		Date/Time: <i>8/21/24 0845</i>		Company: <i>Eurofins</i>	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <i>1.3/1-3 2.1/2-1</i>							

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-254950-1

Login Number: 254950

List Number: 1

Creator: Munro, Caroline

List Source: Eurofins Savannah

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

LEVEL 2A LABORATORY DATA VALIDATIONS

McIntosh Inactive Landfill No. 3

Semiannual Event

August 2024

Georgia Power Company – McIntosh Landfill 3

Quality Control Review of Analytical Data – August 2024

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 Landfill 3 (LF3) between August 19, 2024 and August 20, 2024. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1 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 permit-required state metals. Test methods included Inductively Coupled Plasma – Mass Spectrometry (US EPA Method 6020B), Determination of Inorganic Anions (US EPA Method 300.0), and Solids in Water (Standard Methods 2540C).

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)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². 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 total dissolved solids (TDS) from MCI-GWC-5A (680-254950-7) as described in the qualifications section below.

Accuracy: Laboratory goals for accuracy were met, except chloride from MCI-LF3-FD-05 (680-254950-10) and MCI-LF3-GWA-5 (680-254950-13) 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-GWC-5A (680-254950-7) and MCI-LF3-FD-06 (680-254950-11) were qualified as estimated (J) for TDS as the field relative percent difference (RPD) exceeded QC criteria (24.7% above the limit of 20).
- Sample MCI-LF3-FD-05 (680-254950-10) was qualified as estimated (J) for chloride as the matrix spike (MS) recovery was outside QC criteria (76%, below the range of 80-120).
- Sample MCI-LF3-GWA-5 (680-254950-13) was qualified as estimated (J) for chloride as the MS and matrix spike duplicate (MSD) recoveries were outside QC criteria (53% and 53%, respectively, below the range of 80-120).
- Samples MCI-GWA-1B (680-254950-3), MCI-GWA-3A (680-254950-4), MCI-GWC-1A (680-254950-5), MCI-GWC-5A (680-254950-7), MCI-GWC-6A (680-254950-9), MCI-LF3-FD-05 (680-254950-10), MCI-LF3-FD-06 (680-254950-11), MCI-GWA-4 (680-254950-12), MCI-LF3-GWA-5 (680-254950-13), MCI-GWC-2 (680-254950-14), MCI-LF3-GWC-4A (680-254950-16) were qualified as high biased (B) for barium due to the analyte being detected in the associated equipment blank sample.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh LF3 sampled between August 19, 2024 and August 20, 2024 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

¹US 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

²US 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 Inactive Landfill No. 3
 2024 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 1
 Sample Summary Table – August 2024
 Georgia Power Company – McIntosh LF3

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses		
						Metals (6020B)	Anions (300.0)	TDS (SM 2540C)
254950-1	MCI-GWA-7A	08/19/24	680-254950-1	WG		X	X	X
254950-1	MCI-GWA-2B	08/19/24	680-254950-2	WG		X	X	X
254950-1	MCI-GWA-1B	08/20/24	680-254950-3	WG		X	X	X
254950-1	MCI-GWA-3A	08/20/24	680-254950-4	WG		X	X	X
254950-1	MCI-GWC-1A	08/20/24	680-254950-5	WG		X	X	X
254950-1	MCI-LF3-FB-09	08/20/24	680-254950-6	WQ	FB	X	X	X
254950-1	MCI-GWC-5A	08/20/24	680-254950-7	WG		X	X	X
254950-1	MCI-LF3-EB-11	08/20/24	680-254950-8	WQ	EB	X	X	X
254950-1	MCI-GWC-6A	08/20/24	680-254950-9	WG		X	X	X
254950-1	MCI-LF3-FD-05	08/20/24	680-254950-10	WG	FD (MCI-GWC-6A)	X	X	X
254950-1	MCI-LF3-FD-06	08/20/24	680-254950-11	WG	FD (MCI-GWC-5A)	X	X	X
254950-1	MCI-GWA-4	08/20/24	680-254950-12	WG		X	X	X
254950-1	MCI-LF3-GWA-5	08/20/24	680-254950-13	WG		X	X	X
254950-1	MCI-GWC-2	08/20/24	680-254950-14	WG		X	X	X
254950-1	MCI-LF3-FB-10	08/20/24	680-254950-15	WQ	FB	X	X	X
254950-1	MCI-LF3-GWC-4A	08/20/24	680-254950-16	WG		X	X	X
254950-1	MCI-LF3-EB-12	08/20/24	680-254950-17	WQ	EB	X	X	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 Inactive Landfill No. 3
 2024 Semiannual Groundwater Monitoring and Corrective Action Report

TABLE 2
 Qualifier Summary Table – August 2024
 Georgia Power Company – McIntosh LF3

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
254950-1	MCI-GWA-1B	Barium			B	Blank detection
254950-1	MCI-GWA-3A	Barium			B	Blank detection
254950-1	MCI-GWC-1A	Barium			B	Blank detection
254950-1	MCI-GWC-5A	Barium			B	Blank detection
254950-1	MCI-GWC-6A	Barium			B	Blank detection
254950-1	MCI-LF3-FD-05	Barium			B	Blank detection
254950-1	MCI-LF3-FD-06	Barium			B	Blank detection
254950-1	MCI-GWA-4	Barium			B	Blank detection
254950-1	MCI-LF3-GWA-5	Barium			B	Blank detection
254950-1	MCI-GWC-2	Barium			B	Blank detection
254950-1	MCI-LF3-GWC-4A	Barium			B	Blank detection
254950-1	MCI-LF3-FD-05	Chloride			J	MS outside QC criteria
254950-1	MCI-LF3-GWA-5	Chloride			J	MS/MSD outside QC criteria

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: 8/20/2024 9:20:05 AM

Project: Plant McIntosh LF3

Operator Name: J. Berisford

Location Name: GWA-1B Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 48.53 ft Total Depth: 58.53 ft Initial Depth to Water: 18.97 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 53 ft Estimated Total Volume Pumped: 13.7 liter Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 500 Serial Number: 689325
---	--	--

Test Notes:

Sunny, sample time-1015

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/20/2024 9:20 AM	00:00	5.74 pH	22.25 °C	38.14 µS/cm	5.84 mg/L	2.02 NTU	200.3 mV	18.97 ft	250.00 ml/min
8/20/2024 9:25 AM	05:00	5.80 pH	21.07 °C	35.02 µS/cm	5.62 mg/L	1.38 NTU	191.7 mV	19.10 ft	250.00 ml/min
8/20/2024 9:30 AM	10:00	5.79 pH	20.98 °C	34.74 µS/cm	5.59 mg/L	0.70 NTU	186.4 mV	19.20 ft	250.00 ml/min
8/20/2024 9:35 AM	15:00	5.82 pH	20.97 °C	34.60 µS/cm	5.60 mg/L	0.79 NTU	179.8 mV	19.20 ft	250.00 ml/min
8/20/2024 9:40 AM	20:00	5.86 pH	21.02 °C	34.57 µS/cm	5.59 mg/L	0.67 NTU	172.6 mV	19.20 ft	250.00 ml/min
8/20/2024 9:45 AM	25:00	5.86 pH	20.92 °C	34.37 µS/cm	5.42 mg/L	0.55 NTU	165.2 mV	19.20 ft	250.00 ml/min
8/20/2024 9:50 AM	30:00	5.75 pH	20.89 °C	34.00 µS/cm	4.52 mg/L	0.69 NTU	160.8 mV	19.20 ft	250.00 ml/min
8/20/2024 9:55 AM	35:00	5.66 pH	20.94 °C	33.45 µS/cm	3.52 mg/L	0.50 NTU	157.8 mV	19.20 ft	250.00 ml/min
8/20/2024 10:00 AM	40:00	5.68 pH	21.03 °C	33.52 µS/cm	3.35 mg/L	0.53 NTU	152.9 mV	19.20 ft	250.00 ml/min
8/20/2024 10:05 AM	45:00	5.68 pH	21.00 °C	33.56 µS/cm	2.93 mg/L	0.66 NTU	146.3 mV	19.20 ft	250.00 ml/min
8/20/2024 10:10 AM	50:00	5.67 pH	21.08 °C	33.78 µS/cm	2.76 mg/L	0.62 NTU	138.4 mV	19.20 ft	250.00 ml/min
8/20/2024 10:15 AM	55:00	5.71 pH	21.18 °C	34.05 µS/cm	2.97 mg/L	0.58 NTU	130.7 mV	19.20 ft	250.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/19/2024 4:00:42 PM

Project: Plant McIntosh LF3

Operator Name: J. Berisford

Location Name: GWA-2B Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.78 ft Total Depth: 51.78 ft Initial Depth to Water: 16.2 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 47 ft Estimated Total Volume Pumped: 3.7 liter Flow Cell Volume: 130 ml Final Flow Rate: 125 ml/min Final Draw Down: 16 in	Instrument Used: Aqua TROLL 500 Serial Number: 689325
--	--	--

Test Notes:

Sunny, sample time-1630

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/19/2024 4:00 PM	00:00	5.45 pH	25.79 °C	0.05 µS/cm	8.22 mg/L	3.11 NTU	161.2 mV	16.20 ft	125.00 ml/min
8/19/2024 4:05 PM	05:00	5.69 pH	23.95 °C	109.46 µS/cm	0.52 mg/L	2.69 NTU	65.9 mV	17.00 ft	125.00 ml/min
8/19/2024 4:10 PM	10:00	5.68 pH	23.02 °C	109.00 µS/cm	0.33 mg/L	2.66 NTU	51.5 mV	17.20 ft	125.00 ml/min
8/19/2024 4:15 PM	15:00	5.71 pH	23.98 °C	109.37 µS/cm	0.26 mg/L	2.52 NTU	45.3 mV	17.40 ft	125.00 ml/min
8/19/2024 4:20 PM	20:00	5.71 pH	23.79 °C	109.26 µS/cm	0.23 mg/L	2.48 NTU	37.9 mV	17.50 ft	125.00 ml/min
8/19/2024 4:25 PM	25:00	5.71 pH	23.63 °C	109.25 µS/cm	0.21 mg/L	2.26 NTU	33.4 mV	17.50 ft	125.00 ml/min
8/19/2024 4:30 PM	30:00	5.70 pH	23.18 °C	108.90 µS/cm	0.21 mg/L	2.41 NTU	31.2 mV	17.50 ft	125.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/20/2024 10:40:40 AM

Project: Plant McIntosh LF3

Operator Name: J. Berisford

Location Name: GWA-3A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.88 ft Total Depth: 33.88 ft Initial Depth to Water: 12.03 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 29 ft Estimated Total Volume Pumped: 5.2 liter Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 18 in	Instrument Used: Aqua TROLL 500 Serial Number: 689325
---	--	--

Test Notes:

Sunny, sample time-1115

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/20/2024 10:40 AM	00:00	5.58 pH	23.11 °C	0.00 µS/cm	7.94 mg/L	2.52 NTU	149.6 mV	12.03 ft	150.00 ml/min
8/20/2024 10:45 AM	05:00	4.91 pH	22.59 °C	91.53 µS/cm	0.42 mg/L	2.13 NTU	118.3 mV	12.70 ft	150.00 ml/min
8/20/2024 10:50 AM	10:00	4.94 pH	23.05 °C	91.09 µS/cm	0.28 mg/L	3.04 NTU	113.7 mV	13.00 ft	150.00 ml/min
8/20/2024 10:55 AM	15:00	4.94 pH	22.75 °C	90.80 µS/cm	0.22 mg/L	1.72 NTU	111.8 mV	13.20 ft	150.00 ml/min
8/20/2024 11:00 AM	20:00	4.94 pH	22.98 °C	90.93 µS/cm	0.19 mg/L	1.68 NTU	110.6 mV	13.50 ft	150.00 ml/min
8/20/2024 11:05 AM	25:00	4.94 pH	23.20 °C	90.88 µS/cm	0.18 mg/L	1.52 NTU	109.0 mV	13.50 ft	150.00 ml/min
8/20/2024 11:10 AM	30:00	4.95 pH	23.06 °C	90.79 µS/cm	0.16 mg/L	1.81 NTU	106.4 mV	13.50 ft	150.00 ml/min
8/20/2024 11:15 AM	35:00	4.96 pH	23.08 °C	90.98 µS/cm	0.15 mg/L	1.79 NTU	105.0 mV	13.50 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/20/2024 11:17:22 AM

Project: Plant McIntosh LF3

Operator Name: J. May

Location Name: GWA-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 24.16 ft Total Depth: 29.16 ft Initial Depth to Water: 11.91 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 26.7 ft Estimated Total Volume Pumped: 8.2 liter Flow Cell Volume: 130 ml Final Flow Rate: 50 ml/min Final Draw Down: 115.08 in	Instrument Used: Aqua TROLL 500 Serial Number: 863127
---	---	--

Test Notes:

Sample Time: 1401

Sunny, 80s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/20/2024 11:17 AM	00:00	4.81 pH	26.36 °C	40.73 µS/cm	4.36 mg/L	12.00 NTU	250.8 mV	11.91 ft	50.00 ml/min
8/20/2024 11:22 AM	05:00	4.72 pH	23.56 °C	41.47 µS/cm	3.46 mg/L	11.20 NTU	267.9 mV	12.90 ft	50.00 ml/min
8/20/2024 11:27 AM	10:00	4.70 pH	23.92 °C	41.32 µS/cm	3.58 mg/L	10.80 NTU	270.4 mV	13.40 ft	50.00 ml/min
8/20/2024 11:32 AM	15:00	4.69 pH	23.71 °C	40.90 µS/cm	3.56 mg/L	9.69 NTU	280.4 mV	13.80 ft	50.00 ml/min
8/20/2024 11:37 AM	20:00	4.69 pH	23.87 °C	40.70 µS/cm	3.52 mg/L	9.22 NTU	283.4 mV	14.20 ft	50.00 ml/min
8/20/2024 11:42 AM	25:00	4.69 pH	23.67 °C	40.49 µS/cm	3.42 mg/L	9.42 NTU	290.3 mV	14.60 ft	50.00 ml/min
8/20/2024 11:47 AM	30:00	4.70 pH	23.63 °C	40.24 µS/cm	3.39 mg/L	9.54 NTU	294.4 mV	15.20 ft	50.00 ml/min
8/20/2024 11:52 AM	35:00	4.71 pH	23.62 °C	40.32 µS/cm	3.28 mg/L	9.97 NTU	297.5 mV	15.70 ft	50.00 ml/min
8/20/2024 11:57 AM	40:00	4.72 pH	23.18 °C	40.16 µS/cm	3.13 mg/L	9.77 NTU	302.1 mV	16.10 ft	50.00 ml/min
8/20/2024 12:02 PM	45:00	4.73 pH	23.10 °C	40.03 µS/cm	2.99 mg/L	9.70 NTU	305.3 mV	16.50 ft	50.00 ml/min
8/20/2024 12:07 PM	50:00	4.74 pH	22.79 °C	39.95 µS/cm	2.81 mg/L	9.23 NTU	308.6 mV	16.90 ft	50.00 ml/min
8/20/2024 12:12 PM	55:00	4.75 pH	22.84 °C	40.02 µS/cm	2.71 mg/L	9.05 NTU	310.1 mV	17.20 ft	50.00 ml/min
8/20/2024 12:17 PM	01:00:00	4.76 pH	22.89 °C	40.00 µS/cm	2.59 mg/L	9.40 NTU	311.5 mV	17.60 ft	50.00 ml/min
8/20/2024 12:22 PM	01:05:00	4.77 pH	23.05 °C	40.05 µS/cm	2.40 mg/L	8.55 NTU	313.4 mV	17.90 ft	50.00 ml/min

8/20/2024 12:27 PM	01:10:00	4.78 pH	22.94 °C	40.12 µS/cm	2.39 mg/L	9.00 NTU	311.5 mV	18.40 ft	50.00 ml/min
8/20/2024 12:32 PM	01:15:00	4.79 pH	23.49 °C	40.38 µS/cm	2.18 mg/L	8.24 NTU	308.2 mV	18.60 ft	50.00 ml/min
8/20/2024 12:37 PM	01:20:00	4.80 pH	23.29 °C	40.37 µS/cm	2.07 mg/L	7.91 NTU	307.7 mV	18.90 ft	50.00 ml/min
8/20/2024 12:42 PM	01:25:00	4.80 pH	23.47 °C	40.59 µS/cm	1.90 mg/L	7.81 NTU	305.4 mV	19.10 ft	50.00 ml/min
8/20/2024 12:47 PM	01:30:00	4.81 pH	23.18 °C	40.50 µS/cm	1.72 mg/L	7.65 NTU	305.6 mV	19.40 ft	50.00 ml/min
8/20/2024 12:52 PM	01:35:00	4.80 pH	23.20 °C	40.62 µS/cm	1.75 mg/L	7.34 NTU	307.3 mV	19.60 ft	50.00 ml/min
8/20/2024 12:57 PM	01:40:00	4.81 pH	23.29 °C	40.69 µS/cm	1.72 mg/L	6.46 NTU	308.4 mV	19.80 ft	50.00 ml/min
8/20/2024 1:02 PM	01:45:00	4.80 pH	22.90 °C	40.74 µS/cm	1.62 mg/L	6.24 NTU	309.9 mV	20.10 ft	50.00 ml/min
8/20/2024 1:07 PM	01:50:00	4.81 pH	22.82 °C	40.82 µS/cm	1.41 mg/L	6.11 NTU	309.5 mV	20.20 ft	50.00 ml/min
8/20/2024 1:12 PM	01:55:00	4.81 pH	22.89 °C	41.14 µS/cm	1.35 mg/L	6.28 NTU	309.7 mV	20.40 ft	50.00 ml/min
8/20/2024 1:17 PM	02:00:00	4.81 pH	23.03 °C	41.10 µS/cm	1.30 mg/L	5.94 NTU	309.8 mV	20.60 ft	50.00 ml/min
8/20/2024 1:22 PM	02:05:00	4.81 pH	22.60 °C	41.09 µS/cm	1.23 mg/L	5.45 NTU	310.8 mV	20.70 ft	50.00 ml/min
8/20/2024 1:27 PM	02:10:00	4.81 pH	22.26 °C	41.05 µS/cm	1.24 mg/L	5.23 NTU	311.2 mV	20.80 ft	50.00 ml/min
8/20/2024 1:32 PM	02:15:00	4.81 pH	22.67 °C	41.18 µS/cm	1.20 mg/L	5.70 NTU	312.0 mV	21.00 ft	50.00 ml/min
8/20/2024 1:37 PM	02:20:00	4.81 pH	22.78 °C	41.39 µS/cm	1.16 mg/L	5.29 NTU	313.7 mV	21.10 ft	50.00 ml/min
8/20/2024 1:42 PM	02:25:00	4.81 pH	22.82 °C	41.74 µS/cm	1.04 mg/L	4.77 NTU	313.8 mV	21.20 ft	50.00 ml/min
8/20/2024 1:47 PM	02:30:00	4.82 pH	22.90 °C	41.63 µS/cm	0.97 mg/L	4.69 NTU	314.5 mV	21.30 ft	50.00 ml/min
8/20/2024 1:51 PM	02:33:44	4.81 pH	23.05 °C	41.62 µS/cm	0.97 mg/L	4.69 NTU	314.3 mV	21.30 ft	50.00 ml/min
8/20/2024 1:56 PM	02:38:44	4.81 pH	22.87 °C	41.76 µS/cm	0.95 mg/L	4.09 NTU	315.0 mV	21.40 ft	50.00 ml/min
8/20/2024 2:01 PM	02:43:44	4.81 pH	22.73 °C	41.87 µS/cm	0.93 mg/L	4.11 NTU	315.6 mV	21.50 ft	50.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/19/2024 2:42:05 PM

Project: Plant McIntosh LF3

Operator Name: J. May

Location Name: GWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23 ft Total Depth: 33 ft Initial Depth to Water: 10.76 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 29 ft Estimated Total Volume Pumped: 21250 liter Flow Cell Volume: 130 ml Final Flow Rate: 250 ml/min Final Draw Down: 198.48 in	Instrument Used: Aqua TROLL 500 Serial Number: 863127
--	--	--

Test Notes:

Well purged dry, no sample taken. Allowed for overnight recharge

Rate of flow: 100 mL/min to 250 mL/min at 1507

Sunny, 80s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/19/2024 2:42 PM	00:00	4.64 pH	22.42 °C	85.37 µS/cm	0.65 mg/L	44.90 NTU	190.2 mV	10.76 ft	250.00 ml/min
8/19/2024 2:47 PM	05:00	4.56 pH	23.59 °C	82.93 µS/cm	0.78 mg/L	48.60 NTU	184.2 mV	12.50 ft	250.00 ml/min
8/19/2024 2:52 PM	10:00	4.56 pH	23.56 °C	78.51 µS/cm	0.91 mg/L	41.30 NTU	177.7 mV	12.90 ft	250.00 ml/min
8/19/2024 2:57 PM	15:00	4.54 pH	23.23 °C	73.10 µS/cm	1.06 mg/L	38.50 NTU	178.1 mV	13.50 ft	250.00 ml/min
8/19/2024 3:02 PM	20:00	4.55 pH	23.30 °C	68.50 µS/cm	1.55 mg/L	37.30 NTU	177.0 mV	13.80 ft	250.00 ml/min
8/19/2024 3:07 PM	25:00	4.57 pH	23.49 °C	67.15 µS/cm	1.85 mg/L	22.90 NTU	180.0 mV	14.30 ft	250.00 ml/min
8/19/2024 3:12 PM	30:00	4.54 pH	21.48 °C	65.48 µS/cm	2.13 mg/L	15.40 NTU	189.7 mV	15.90 ft	250.00 ml/min
8/19/2024 3:17 PM	35:00	4.50 pH	21.37 °C	62.16 µS/cm	2.43 mg/L	13.00 NTU	200.2 mV	16.90 ft	250.00 ml/min
8/19/2024 3:22 PM	40:00	4.52 pH	21.47 °C	59.90 µS/cm	2.69 mg/L	10.00 NTU	209.0 mV	18.20 ft	250.00 ml/min
8/19/2024 3:27 PM	45:00	4.55 pH	21.63 °C	60.50 µS/cm	2.79 mg/L	10.40 NTU	217.9 mV	19.30 ft	250.00 ml/min
8/19/2024 3:32 PM	50:00	4.57 pH	21.49 °C	60.33 µS/cm	2.93 mg/L	9.46 NTU	227.8 mV	20.20 ft	250.00 ml/min
8/19/2024 3:37 PM	55:00	4.57 pH	21.41 °C	60.90 µS/cm	3.13 mg/L	27.50 NTU	239.2 mV	21.10 ft	250.00 ml/min
8/19/2024 3:42 PM	01:00:00	4.59 pH	21.51 °C	62.76 µS/cm	3.02 mg/L	46.60 NTU	251.0 mV	22.30 ft	250.00 ml/min
8/19/2024 3:47 PM	01:05:00	4.60 pH	21.43 °C	64.79 µS/cm	2.56 mg/L	68.70 NTU	258.9 mV	22.90 ft	250.00 ml/min

8/19/2024 3:52 PM	01:10:00	4.61 pH	21.51 °C	66.12 µS/cm	2.21 mg/L	64.20 NTU	265.6 mV	23.80 ft	250.00 ml/min
8/19/2024 3:57 PM	01:15:00	4.61 pH	21.32 °C	67.81 µS/cm	1.75 mg/L	59.70 NTU	271.9 mV	24.50 ft	250.00 ml/min
8/19/2024 4:02 PM	01:20:00	4.61 pH	21.35 °C	71.02 µS/cm	1.48 mg/L	72.10 NTU	275.7 mV	25.20 ft	250.00 ml/min
8/19/2024 4:07 PM	01:25:00	4.64 pH	21.30 °C	73.62 µS/cm	1.21 mg/L	96.70 NTU	270.9 mV	25.80 ft	250.00 ml/min
8/19/2024 4:12 PM	01:30:00	4.63 pH	21.24 °C	76.00 µS/cm	1.08 mg/L	70.10 NTU	276.5 mV	26.50 ft	250.00 ml/min
8/19/2024 4:17 PM	01:35:00	4.66 pH	21.17 °C	78.48 µS/cm	1.01 mg/L	56.70 NTU	272.7 mV	27.20 ft	250.00 ml/min
8/19/2024 4:22 PM	01:40:00	4.83 pH	22.63 °C	72.26 µS/cm	3.55 mg/L	86.40 NTU	252.8 mV	27.30 ft	250.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/20/2024 9:15:35 AM

Project: Plant McIntosh LF3

Operator Name: J. May

Location Name: GWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23 ft Total Depth: 33 ft Initial Depth to Water: 10.81 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 4.25 liter Flow Cell Volume: 130 ml Final Flow Rate: 50 ml/min Final Draw Down: 56.28 in	Instrument Used: Aqua TROLL 500 Serial Number: 863127
--	---	--

Test Notes:

Sample Time: 1040

Sampled after overnight recharge.

Sunny, 80s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/20/2024 9:15 AM	00:00	4.96 pH	24.67 °C	157.42 µS/cm	4.62 mg/L	89.20 NTU	181.8 mV	10.81 ft	50.00 ml/min
8/20/2024 9:20 AM	05:00	4.57 pH	23.09 °C	112.32 µS/cm	5.06 mg/L	79.90 NTU	194.5 mV	11.60 ft	50.00 ml/min
8/20/2024 9:25 AM	10:00	4.56 pH	23.24 °C	85.09 µS/cm	5.93 mg/L	45.80 NTU	193.2 mV	12.10 ft	50.00 ml/min
8/20/2024 9:30 AM	15:00	4.61 pH	23.19 °C	82.62 µS/cm	6.52 mg/L	31.50 NTU	198.4 mV	12.40 ft	50.00 ml/min
8/20/2024 9:35 AM	20:00	4.61 pH	23.18 °C	77.60 µS/cm	6.66 mg/L	27.20 NTU	200.8 mV	12.70 ft	50.00 ml/min
8/20/2024 9:40 AM	25:00	4.63 pH	23.13 °C	73.17 µS/cm	6.73 mg/L	24.30 NTU	204.0 mV	13.10 ft	50.00 ml/min
8/20/2024 9:45 AM	30:00	4.63 pH	23.09 °C	71.08 µS/cm	6.86 mg/L	22.80 NTU	213.2 mV	13.30 ft	50.00 ml/min
8/20/2024 9:50 AM	35:00	4.63 pH	23.09 °C	75.30 µS/cm	6.98 mg/L	22.00 NTU	217.9 mV	13.60 ft	50.00 ml/min
8/20/2024 9:55 AM	40:00	4.63 pH	23.07 °C	73.03 µS/cm	7.03 mg/L	21.40 NTU	225.5 mV	13.80 ft	50.00 ml/min
8/20/2024 10:00 AM	45:00	4.64 pH	23.29 °C	70.88 µS/cm	7.05 mg/L	20.10 NTU	220.8 mV	14.10 ft	50.00 ml/min
8/20/2024 10:05 AM	50:00	4.64 pH	23.26 °C	70.64 µS/cm	7.05 mg/L	18.80 NTU	235.2 mV	14.30 ft	50.00 ml/min
8/20/2024 10:10 AM	55:00	4.64 pH	23.27 °C	70.15 µS/cm	6.94 mg/L	17.70 NTU	243.1 mV	14.50 ft	50.00 ml/min
8/20/2024 10:15 AM	01:00:00	4.64 pH	23.18 °C	69.56 µS/cm	6.75 mg/L	15.50 NTU	252.1 mV	14.70 ft	50.00 ml/min
8/20/2024 10:20 AM	01:05:00	4.63 pH	23.08 °C	69.38 µS/cm	6.47 mg/L	14.60 NTU	260.8 mV	14.90 ft	50.00 ml/min

8/20/2024 10:25 AM	01:10:00	4.63 pH	23.21 °C	68.82 µS/cm	6.30 mg/L	13.20 NTU	268.5 mV	15.00 ft	50.00 ml/min
8/20/2024 10:30 AM	01:15:00	4.63 pH	23.40 °C	68.96 µS/cm	6.12 mg/L	11.20 NTU	275.7 mV	15.10 ft	50.00 ml/min
8/20/2024 10:35 AM	01:20:00	4.63 pH	23.23 °C	68.42 µS/cm	5.95 mg/L	10.70 NTU	281.6 mV	15.30 ft	50.00 ml/min
8/20/2024 10:40 AM	01:25:00	4.62 pH	23.25 °C	68.39 µS/cm	5.82 mg/L	9.68 NTU	288.2 mV	15.50 ft	50.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/19/2024 3:10:07 PM

Project: Plant McIntosh LF3

Operator Name: J. Berisford

Location Name: GWA-7A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 36.94 ft Total Depth: 46.94 ft Initial Depth to Water: 19.91 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 3.9 liter Flow Cell Volume: 130 ml Final Flow Rate: 130 ml/min Final Draw Down: 7 in	Instrument Used: Aqua TROLL 500 Serial Number: 689325
---	---	--

Test Notes:

Sunny, sample time 1540

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/19/2024 3:10 PM	00:00	5.24 pH	23.64 °C	132.89 µS/cm	2.66 mg/L	7.45 NTU	189.7 mV	19.91 ft	130.00 ml/min
8/19/2024 3:15 PM	05:00	5.15 pH	23.51 °C	132.89 µS/cm	0.43 mg/L	2.63 NTU	184.0 mV	20.40 ft	130.00 ml/min
8/19/2024 3:20 PM	10:00	5.15 pH	23.14 °C	132.58 µS/cm	0.31 mg/L	2.29 NTU	180.2 mV	20.40 ft	130.00 ml/min
8/19/2024 3:25 PM	15:00	5.15 pH	22.84 °C	132.42 µS/cm	0.25 mg/L	1.79 NTU	178.2 mV	20.50 ft	130.00 ml/min
8/19/2024 3:30 PM	20:00	5.15 pH	22.78 °C	132.74 µS/cm	0.23 mg/L	2.89 NTU	176.1 mV	20.50 ft	130.00 ml/min
8/19/2024 3:35 PM	25:00	5.16 pH	22.82 °C	133.02 µS/cm	0.21 mg/L	2.94 NTU	160.5 mV	20.50 ft	130.00 ml/min
8/19/2024 3:40 PM	30:00	5.16 pH	22.72 °C	132.77 µS/cm	0.20 mg/L	3.01 NTU	150.9 mV	20.50 ft	130.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/20/2024 2:05:05 PM

Project: Plant McIntosh LF3

Operator Name: J. Berisford

Location Name: GWC-1A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.37 ft Total Depth: 47.37 ft Initial Depth to Water: 18.05 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 7 in	Instrument Used: Aqua TROLL 500 Serial Number: 689325
---	---	--

Test Notes:

Sunny, sample time- 1435. LF3-FB-09 here at 1420

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/20/2024 2:05 PM	00:00	5.28 pH	28.41 °C	54.38 µS/cm	7.02 mg/L	3.43 NTU	168.9 mV	18.05 ft	150.00 ml/min
8/20/2024 2:10 PM	05:00	4.53 pH	22.85 °C	63.56 µS/cm	0.52 mg/L	0.83 NTU	198.8 mV	18.40 ft	150.00 ml/min
8/20/2024 2:15 PM	10:00	4.49 pH	23.09 °C	63.66 µS/cm	0.32 mg/L	0.82 NTU	214.0 mV	18.70 ft	150.00 ml/min
8/20/2024 2:20 PM	15:00	4.51 pH	22.83 °C	63.51 µS/cm	0.27 mg/L	1.11 NTU	221.5 mV	18.70 ft	150.00 ml/min
8/20/2024 2:25 PM	20:00	4.52 pH	22.68 °C	63.50 µS/cm	0.25 mg/L	0.97 NTU	227.5 mV	18.70 ft	150.00 ml/min
8/20/2024 2:30 PM	25:00	4.51 pH	22.65 °C	63.35 µS/cm	0.23 mg/L	0.82 NTU	232.9 mV	18.70 ft	150.00 ml/min
8/20/2024 2:35 PM	30:00	4.52 pH	22.65 °C	63.08 µS/cm	0.21 mg/L	0.55 NTU	237.1 mV	18.70 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/20/2024 2:54:02 PM

Project: Plant McIntosh LF3

Operator Name: J. May

Location Name: GWC-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 9.3 ft Top of Screen: 27.49 ft Total Depth: 36.79 ft Initial Depth to Water: 15.01 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 32 ft Estimated Total Volume Pumped: 14 liter Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.08 in	Instrument Used: Aqua TROLL 500 Serial Number: 863127
---	---	--

Test Notes:

Sample Time: 1604

Sunny, 90s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/20/2024 2:54 PM	00:00	5.89 pH	24.51 °C	157.47 µS/cm	0.47 mg/L	1.68 NTU	193.1 mV	15.01 ft	200.00 ml/min
8/20/2024 2:59 PM	05:00	5.93 pH	26.50 °C	140.95 µS/cm	0.32 mg/L	1.13 NTU	175.6 mV	15.10 ft	200.00 ml/min
8/20/2024 3:04 PM	10:00	5.91 pH	26.09 °C	125.39 µS/cm	0.23 mg/L	0.73 NTU	179.8 mV	15.10 ft	200.00 ml/min
8/20/2024 3:09 PM	15:00	5.88 pH	25.43 °C	118.15 µS/cm	0.17 mg/L	0.75 NTU	185.8 mV	15.10 ft	200.00 ml/min
8/20/2024 3:14 PM	20:00	5.84 pH	24.63 °C	111.85 µS/cm	0.15 mg/L	1.70 NTU	191.4 mV	15.10 ft	200.00 ml/min
8/20/2024 3:19 PM	25:00	5.82 pH	24.48 °C	107.90 µS/cm	0.13 mg/L	0.68 NTU	196.3 mV	15.10 ft	200.00 ml/min
8/20/2024 3:24 PM	30:00	5.78 pH	25.84 °C	101.08 µS/cm	0.13 mg/L	0.49 NTU	201.1 mV	15.10 ft	200.00 ml/min
8/20/2024 3:29 PM	35:00	5.76 pH	25.99 °C	98.94 µS/cm	0.11 mg/L	0.35 NTU	206.1 mV	15.10 ft	200.00 ml/min
8/20/2024 3:34 PM	40:00	5.72 pH	26.20 °C	93.86 µS/cm	0.10 mg/L	0.45 NTU	209.8 mV	15.10 ft	200.00 ml/min
8/20/2024 3:39 PM	45:00	5.69 pH	25.23 °C	89.08 µS/cm	0.10 mg/L	0.43 NTU	214.5 mV	15.10 ft	200.00 ml/min
8/20/2024 3:44 PM	50:00	5.66 pH	25.67 °C	86.46 µS/cm	0.10 mg/L	0.31 NTU	215.1 mV	15.10 ft	200.00 ml/min
8/20/2024 3:49 PM	55:00	5.63 pH	25.57 °C	81.37 µS/cm	0.09 mg/L	0.48 NTU	214.9 mV	15.10 ft	200.00 ml/min
8/20/2024 3:54 PM	01:00:00	5.63 pH	24.96 °C	81.12 µS/cm	0.09 mg/L	0.31 NTU	220.1 mV	15.10 ft	200.00 ml/min
8/20/2024 3:59 PM	01:05:00	5.63 pH	25.41 °C	81.44 µS/cm	0.09 mg/L	0.35 NTU	223.5 mV	15.10 ft	200.00 ml/min

8/20/2024 4:04 PM	01:10:00	5.60 pH	24.83 °C	78.45 µS/cm	0.08 mg/L	0.37 NTU	227.6 mV	15.10 ft	200.00 ml/min
----------------------	----------	---------	----------	-------------	-----------	----------	----------	----------	---------------

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/20/2024 4:05:06 PM

Project: Plant McIntosh LF3

Operator Name: J. Berisford

Location Name: GWC-4A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 26.96 ft Total Depth: 36.96 ft Initial Depth to Water: 17.89 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 32 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 6 in	Instrument Used: Aqua TROLL 500 Serial Number: 689325
---	---	--

Test Notes:

Sunny, sample time-1645. LF3-FB-10 here at 1625

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/20/2024 4:05 PM	00:00	4.75 pH	29.17 °C	21.67 µS/cm	4.58 mg/L	1.39 NTU	197.5 mV	17.89 ft	150.00 ml/min
8/20/2024 4:10 PM	05:00	4.69 pH	26.09 °C	21.62 µS/cm	1.21 mg/L	1.32 NTU	223.7 mV	18.40 ft	150.00 ml/min
8/20/2024 4:15 PM	10:00	4.69 pH	26.01 °C	21.41 µS/cm	1.05 mg/L	1.46 NTU	238.9 mV	18.40 ft	150.00 ml/min
8/20/2024 4:20 PM	15:00	4.70 pH	26.09 °C	20.99 µS/cm	0.82 mg/L	0.96 NTU	247.3 mV	18.40 ft	150.00 ml/min
8/20/2024 4:25 PM	20:00	4.68 pH	25.75 °C	20.75 µS/cm	0.67 mg/L	0.61 NTU	255.2 mV	18.40 ft	150.00 ml/min
8/20/2024 4:30 PM	25:00	4.67 pH	25.73 °C	20.66 µS/cm	0.57 mg/L	0.83 NTU	260.1 mV	18.40 ft	150.00 ml/min
8/20/2024 4:35 PM	30:00	4.67 pH	25.63 °C	20.89 µS/cm	0.58 mg/L	0.73 NTU	264.7 mV	18.40 ft	150.00 ml/min
8/20/2024 4:40 PM	35:00	4.68 pH	25.85 °C	20.89 µS/cm	0.50 mg/L	0.46 NTU	267.8 mV	18.40 ft	150.00 ml/min
8/20/2024 4:45 PM	40:00	4.68 pH	25.55 °C	20.98 µS/cm	0.56 mg/L	0.53 NTU	270.9 mV	18.40 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/20/2024 3:00:13 PM

Project: Plant McIntosh LF3

Operator Name: J. Berisford

Location Name: GWC-5A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.6 ft Total Depth: 42.6 ft Initial Depth to Water: 19.56 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 130 ml Final Flow Rate: 150 ml/min Final Draw Down: 4 in	Instrument Used: Aqua TROLL 500 Serial Number: 689325
---	---	--

Test Notes:

Sunny, sample time-1530. LF3-FD-06 here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/20/2024 3:00 PM	00:00	4.71 pH	26.68 °C	0.00 µS/cm	7.24 mg/L	2.54 NTU	200.8 mV	19.56 ft	150.00 ml/min
8/20/2024 3:05 PM	05:00	4.79 pH	23.71 °C	37.76 µS/cm	0.71 mg/L	2.21 NTU	203.2 mV	19.80 ft	150.00 ml/min
8/20/2024 3:10 PM	10:00	4.73 pH	22.96 °C	37.77 µS/cm	0.33 mg/L	2.06 NTU	215.0 mV	19.90 ft	150.00 ml/min
8/20/2024 3:15 PM	15:00	4.72 pH	22.75 °C	37.77 µS/cm	0.26 mg/L	1.14 NTU	221.2 mV	19.90 ft	150.00 ml/min
8/20/2024 3:20 PM	20:00	4.74 pH	22.55 °C	37.76 µS/cm	0.21 mg/L	1.39 NTU	225.4 mV	19.90 ft	150.00 ml/min
8/20/2024 3:25 PM	25:00	4.75 pH	22.89 °C	37.74 µS/cm	0.19 mg/L	1.46 NTU	227.1 mV	19.90 ft	150.00 ml/min
8/20/2024 3:30 PM	30:00	4.78 pH	23.20 °C	37.80 µS/cm	0.19 mg/L	1.96 NTU	229.2 mV	19.90 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 8/20/2024 12:45:04 PM

Project: Plant McIntosh LF3

Operator Name: J. Berisford

Location Name: GWC-6A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.43 ft Total Depth: 42.43 ft Initial Depth to Water: 20.08 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 130 ml Final Flow Rate: 200 ml/min Final Draw Down: 7 in	Instrument Used: Aqua TROLL 500 Serial Number: 689325
---	---	--

Test Notes:

Sunny, sample time-1315. LF3-FD-05 here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
8/20/2024 12:45 PM	00:00	4.79 pH	25.32 °C	0.00 µS/cm	7.64 mg/L	2.11 NTU	169.6 mV	20.08 ft	200.00 ml/min
8/20/2024 12:50 PM	05:00	5.23 pH	21.44 °C	49.35 µS/cm	0.21 mg/L	2.04 NTU	156.6 mV	20.60 ft	200.00 ml/min
8/20/2024 12:55 PM	10:00	5.23 pH	21.93 °C	48.81 µS/cm	0.20 mg/L	1.76 NTU	159.6 mV	20.70 ft	200.00 ml/min
8/20/2024 1:00 PM	15:00	5.25 pH	21.73 °C	48.87 µS/cm	0.17 mg/L	1.89 NTU	160.6 mV	20.70 ft	200.00 ml/min
8/20/2024 1:05 PM	20:00	5.28 pH	21.66 °C	48.73 µS/cm	0.15 mg/L	1.66 NTU	161.3 mV	20.70 ft	200.00 ml/min
8/20/2024 1:10 PM	25:00	5.27 pH	21.92 °C	48.52 µS/cm	0.14 mg/L	1.57 NTU	162.6 mV	20.70 ft	200.00 ml/min
8/20/2024 1:15 PM	30:00	5.30 pH	22.05 °C	48.30 µS/cm	0.13 mg/L	1.61 NTU	163.2 mV	20.70 ft	200.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Field Instrumentation Calibration Form



Site Name: Plant McIntosh LF3

Date: 08-19-21

Calibrated By: J. May

Field Conditions: Sunny, 90s

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In Situ Aquatroll	8603127
Turbidity Meter	Hach 2100Q	24010000420

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI Water	—	—
pH (SU)	4.00	4GE0127	05/26	PINE
pH (SU)	7.00	4GE01067	04/26	PINE
pH (SU)	10.00	4GE0600	03/26	PINE
Specific Conductance (µS/cm)	1,413	4GE0258	05/25	PINE
ORP (mV)	240.0	4GE1370	02/25	PINE

Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	DI Water	—	—
	10	A4029	05/25	Hach
	20	A3363	04/25	Hach
	100	A4002	04/25	Hach

Calibration					
Time Start: <u>1355</u>		Time Finish: <u>1410</u>			

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	99.88	29.82	± 10%	EPA 2023
pH (SU)	4.00	4.01	29.56	± 0.1	GWMP
pH (SU)	7.00	6.99	29.54	± 0.1	GWMP
pH (SU)	10.00	9.95	29.70	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413.0	29.60	± 10% of standard	NA
ORP (mV)	240.0	223.2	29.51	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.11		
	10	9.93		
	20	20.0		
	100	99.8		

Calibration Check					
Time Start		Time Finish			

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0			
	10			
	20			
	100			

Field Instrumentation Calibration Form



Site Name: Plant McIntosh LF3

Date: 08-20-24

Calibrated By: J. May

Field Conditions: Sunny, 80s

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In Situ AquaTall	803127
Turbidity Meter	Hach 2100 Q	24010500420

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI water	—	—
pH (SU)	4.00	46E0127	05/26	PINE
pH (SU)	7.00	46D1007	04/26	PINE
pH (SU)	10.00	46L0006	03/26	PINE
Specific Conductance (µS/cm)	1,413	46F0258	05/25	PINE
ORP (mV)	240.0	46E1370	02/25	PINE

Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	DI water	—	—
	10	A4029	05/25	Hach
	20	A3303	04/25	Hach
	100	A4002	04/25	Hach

Calibration	
Time Start:	Time Finish:
<u>0835</u>	<u>0845</u>

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	100.0	25.07	± 10%	EPA 2023
pH (SU)	4.00	4.00	25.51	± 0.1	GWMP
pH (SU)	7.00	7.00	25.47	± 0.1	GWMP
pH (SU)	10.00	10.00	25.42	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413.0	25.40	± 10% of standard	NA
ORP (mV)	240.0	229.1	25.34	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.09	± 10% of standard	EPA 2023
	10	10.3		
	20	20.4		
	100	100		

Calibration Check	
Time Start:	Time Finish:
<u>1430</u>	<u>1440</u>

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.01	29.21	± 0.1	GWMP
pH (SU)	7.00	6.99	29.72	± 0.1	GWMP
pH (SU)	10.00	9.95	29.63	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1413.0	29.71	± 10% of standard	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.09	± 10% of standard	EPA 2023
	10	9.99		
	20	19.9		
	100	99.4		

Field Instrumentation Calibration Form



Site Name: Merrish CFB

Date: 8/19/2025

Calibrated By: J. Bradford

Field Conditions: Sunny

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquatrak 500	689325
Turbidity Meter	HACH 2100 D	22080D001127

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI H ₂ O	N/A	N/A
pH (SU)	4.00	4GB1376	Feb-26	PINE
pH (SU)	7.00	4GC0526	Mar-26	PINE
pH (SU)	10.00	4GC0600	Mar-26	PINE
Specific Conductance (µS/cm)	1,413	3GL0664	Dec-24	PINE
ORP (mV)	240.0	3GL0404	Sep-24	PINE

Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	DI H ₂ O	N/A	N/A
	10	44174	9/25	HACH
	20	44183	10/25	HACH
	100	44179	10/25	HACH

Calibration					
Time Start: <u>1445</u>		Time Finish: <u>1456</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	<u>98.22</u>	<u>24.48</u> 28.04	± 10%	EPA 2023
pH (SU)	4.00	<u>4.00</u>	<u>25.42</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.00</u>	<u>24.97</u>	± 0.1	GWMP
pH (SU)	10.00	<u>10.00</u>	<u>24.84</u>	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	<u>1413</u>	<u>24.75</u>	± 10% of standard	NA
ORP (mV)	240.0 <u>228</u>	<u>228</u>	<u>25.48</u>	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	<u>0.25</u>	± 10% of standard	EPA 2023
	10	<u>9.97</u>		
	20	<u>20.2</u>		
	100	<u>99.1</u>		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	<u>0.29</u>		± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0		± 10% of standard	EPA 2023
	10			
	20			
	100			

Notes: Called after 1400

Field Instrumentation Calibration Form


 Site Name: McIntosh LF3

 Date: 8/20/24

 Calibrated By: J. Benzoni

 Field Conditions: Sunny

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	<u>AquaToll 500</u>	<u>689325</u>
Turbidity Meter	<u>HACH 2100 Q</u>	<u>220807001127</u>

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI H ₂ O	N/A	N/A
pH (SU)	4.00	4GB1376	Feb-26	PINE
pH (SU)	7.00	4GC0526	Mar-26	PINE
pH (SU)	10.00	4GC0600	Mar-26	PINE
Specific Conductance (µS/cm)	1,413	3GL0664	Dec-24	PINE
ORP (mV)	240.0	3GL0404	Sep-24	PINE

Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	DI H ₂ O	N/A	N/A
	10	<u>A41174</u>	<u>9/25</u>	HACH
	20	<u>14133</u>	<u>10/25</u>	HACH
	100	<u>A4179</u>	<u>10/25</u>	HACH

Calibration					
Time Start: <u>0832</u>		Time Finish: <u>0847</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	<u>109.72</u>	<u>24.42</u>	± 10%	EPA 2023
pH (SU)	4.00	<u>4.00</u>	<u>26.43</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.00</u>	<u>26.35</u>	± 0.1	GWMP
pH (SU)	10.00	<u>10.00</u>	<u>26.42</u>	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	<u>1413</u>	<u>26.47</u>	± 10% of standard	NA
ORP (mV)	<u>240.0</u>	<u>227</u>	<u>26.51</u>	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	<u>0.32</u>	± 10% of standard	EPA 2023
	10	<u>10.2</u>		
	20	<u>20.2</u>		
	100	<u>99.8</u>		

Calibration Check					
Time Start <u>1351</u>		Time Finish <u>1401</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	<u>4.02</u>	<u>28.42</u>	± 0.1	GWMP
pH (SU)	7.00	<u>6.98</u>	<u>28.09</u>	± 0.1	GWMP
pH (SU)	10.00	<u>10.06</u>	<u>27.92</u>	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	<u>1509</u>	<u>27.88</u>	± 10% of standard	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	<u>0.33</u>	± 10% of standard	EPA 2023
	10	<u>10.1</u>		
	20	<u>19.9</u>		
	100	<u>164</u>		

Notes:

Well Inspection

Site Name: Plant McIntosh LF3

Date: 8/12/2024

Permit Number: 051-008D(CCR)

Field Conditions: 93 °F

Well ID:	Corrective actions as needed, by date:
GWA-1B	
GWA-2B	
GWA-3A	
GWA-4	
GWA-5	
GWA-7A	
GWC-1A	
GWC-2	
GWC-4A	
GWC-5A	
GWC-6A	
PZ-1	Cracked pad from fallen tree
PZ-2	
PZ-3	
PZ-4	
PZ-5	

APPENDIX A

*Laboratory Analytical and Field Sampling Reports
January 2025 Monitoring Event*

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Kevin Stephenson
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 2/12/2025 2:01:23 PM Revision 1

JOB DESCRIPTION

Plant McIntosh Landfill 3

JOB NUMBER

680-261240-1

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



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

Generated
2/12/2025 2:01:23 PM
Revision 1

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Qualifiers

HPLC/IC

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

Glossary

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

Sample Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-261240-1	MCI-LF3-FD-05	Water	01/28/25 00:00	01/29/25 08:44
680-261240-2	MCI-GWA-1B	Water	01/28/25 09:55	01/29/25 08:44
680-261240-3	MCI-GWA-2B	Water	01/28/25 11:05	01/29/25 08:44
680-261240-4	MCI-GWA-4	Water	01/28/25 11:40	01/29/25 08:44
680-261240-5	MCI-LF3-GWA-5	Water	01/28/25 10:30	01/29/25 08:44
680-261240-6	MCI-GWA-7A	Water	01/27/25 16:35	01/29/25 08:44
680-261240-7	MCI-GWC-2	Water	01/28/25 12:50	01/29/25 08:44
680-261240-8	MCI-LF3-GWC-4A	Water	01/28/25 13:58	01/29/25 08:44
680-261240-9	MCI-GWA-3A	Water	01/28/25 14:40	01/29/25 08:44
680-261240-10	MCI-GWC-5A	Water	01/28/25 15:30	01/29/25 08:44
680-261240-11	MCI-GWC-6A	Water	01/28/25 15:50	01/29/25 08:44
680-261240-12	MCI-LF3-FD-06	Water	01/28/25 00:00	01/29/25 08:44
680-261240-13	MCI-GWC-1A	Water	01/28/25 16:25	01/29/25 08:44
680-261240-14	MCI-LF3-FB-09	Water	01/28/25 15:40	01/29/25 08:44
680-261240-15	MCI-LF3-FB-10	Water	01/28/25 16:40	01/29/25 08:44
680-261240-16	MCI-LF3-EB-11	Water	01/28/25 14:30	01/29/25 08:44
680-261240-17	MCI-LF3-EB-12	Water	01/28/25 16:30	01/29/25 08:44

Case Narrative

Client: Southern Company
Project: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Job ID: 680-261240-1

Eurofins Savannah

Job Narrative 680-261240-1

Revision 1

The report being provided is a revision of the original report sent on 2/6/2025. The report (revision 1) is being revised in order to include the Chain of Custody into this report.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt

The samples were received on 1/29/2025 8:44 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.4°C and 4.5°C.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 680-874442 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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.

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Client Sample ID: MCI-LF3-FD-05

Lab Sample ID: 680-261240-1

Date Collected: 01/28/25 00:00

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.0		1.0	0.20	mg/L			02/04/25 14:57	1
Fluoride	<0.040		0.10	0.040	mg/L			02/04/25 14:57	1
Sulfate	4.7		1.0	0.40	mg/L			02/04/25 14:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.074		0.010	0.00089	mg/L		01/30/25 05:52	01/30/25 13:34	1
Beryllium	0.00037	J	0.0025	0.00020	mg/L		01/30/25 05:52	01/30/25 13:34	1
Boron	0.11		0.080	0.022	mg/L		01/30/25 05:52	01/30/25 13:34	1
Calcium	3.1		0.50	0.14	mg/L		01/30/25 05:52	01/30/25 13:34	1
Chromium	0.0021		0.0020	0.0012	mg/L		01/30/25 05:52	01/30/25 13:34	1
Cobalt	0.0017	J	0.0025	0.00022	mg/L		01/30/25 05:52	01/30/25 13:34	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/30/25 05:52	01/30/25 13:34	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/30/25 05:52	01/30/25 13:34	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/30/25 05:52	01/30/25 13:34	1
Zinc	0.0087		0.0050	0.0028	mg/L		01/30/25 05:52	01/30/25 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	44		10	10	mg/L			01/30/25 08:25	1

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-261240-2

Date Collected: 01/28/25 09:55

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.4		1.0	0.20	mg/L			02/04/25 15:27	1
Fluoride	<0.040		0.10	0.040	mg/L			02/04/25 15:27	1
Sulfate	0.70	J	1.0	0.40	mg/L			02/04/25 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.015		0.010	0.00089	mg/L		01/30/25 05:52	01/30/25 13:26	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		01/30/25 05:52	01/30/25 13:26	1
Boron	0.053	J	0.080	0.022	mg/L		01/30/25 05:52	01/30/25 13:26	1
Calcium	2.5		0.50	0.14	mg/L		01/30/25 05:52	01/30/25 13:26	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/30/25 05:52	01/30/25 13:26	1
Cobalt	0.00029	J	0.0025	0.00022	mg/L		01/30/25 05:52	01/30/25 13:26	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/30/25 05:52	01/30/25 13:26	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/30/25 05:52	01/30/25 13:26	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/30/25 05:52	01/30/25 13:26	1
Zinc	<0.0028		0.0050	0.0028	mg/L		01/30/25 05:52	01/30/25 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	52		10	10	mg/L			01/30/25 08:25	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Client Sample ID: MCI-GWA-2B

Lab Sample ID: 680-261240-3

Date Collected: 01/28/25 11:05

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.8		2.0	0.40	mg/L			02/04/25 15:36	2
Fluoride	<0.080		0.20	0.080	mg/L			02/04/25 15:36	2
Sulfate	65		2.0	0.80	mg/L			02/04/25 15:36	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.054		0.010	0.00089	mg/L		01/30/25 05:52	01/30/25 13:44	1
Beryllium	0.0017	J	0.0025	0.00020	mg/L		01/30/25 05:52	01/30/25 13:44	1
Boron	0.65		0.080	0.022	mg/L		01/30/25 05:52	01/30/25 13:44	1
Calcium	14		0.50	0.14	mg/L		01/30/25 05:52	01/30/25 13:44	1
Chromium	0.0030		0.0020	0.0012	mg/L		01/30/25 05:52	01/30/25 13:44	1
Cobalt	0.0035		0.0025	0.00022	mg/L		01/30/25 05:52	01/30/25 13:44	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/30/25 05:52	01/30/25 13:44	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/30/25 05:52	01/30/25 13:44	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/30/25 05:52	01/30/25 13:44	1
Zinc	0.014		0.0050	0.0028	mg/L		01/30/25 05:52	01/30/25 13:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	120		10	10	mg/L			01/30/25 08:25	1

Client Sample ID: MCI-GWA-4

Lab Sample ID: 680-261240-4

Date Collected: 01/28/25 11:40

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.5		1.0	0.20	mg/L			02/04/25 15:46	1
Fluoride	<0.040		0.10	0.040	mg/L			02/04/25 15:46	1
Sulfate	3.4		1.0	0.40	mg/L			02/04/25 15:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.058		0.010	0.00089	mg/L		01/30/25 05:52	01/30/25 13:57	1
Beryllium	0.00021	J	0.0025	0.00020	mg/L		01/30/25 05:52	01/30/25 13:57	1
Boron	<0.022		0.080	0.022	mg/L		01/30/25 05:52	01/30/25 13:57	1
Calcium	1.5		0.50	0.14	mg/L		01/30/25 05:52	01/30/25 13:57	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/30/25 05:52	01/30/25 13:57	1
Cobalt	0.0011	J	0.0025	0.00022	mg/L		01/30/25 05:52	01/30/25 13:57	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/30/25 05:52	01/30/25 13:57	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/30/25 05:52	01/30/25 13:57	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/30/25 05:52	01/30/25 13:57	1
Zinc	0.012		0.0050	0.0028	mg/L		01/30/25 05:52	01/30/25 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	37		10	10	mg/L			01/30/25 08:25	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Client Sample ID: MCI-LF3-GWA-5

Lab Sample ID: 680-261240-5

Date Collected: 01/28/25 10:30

Matrix: Water

Date Received: 01/29/25 08:44

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			02/04/25 15:56	1
Fluoride	<0.040		0.10	0.040	mg/L			02/04/25 15:56	1
Sulfate	18		1.0	0.40	mg/L			02/04/25 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.13		0.010	0.00089	mg/L		01/30/25 05:56	01/30/25 14:41	1
Beryllium	0.00035	J	0.0025	0.00020	mg/L		01/30/25 05:56	01/30/25 14:41	1
Boron	0.047	J	0.080	0.022	mg/L		01/30/25 05:56	01/30/25 14:41	1
Calcium	3.5		0.50	0.14	mg/L		01/30/25 05:56	01/30/25 14:41	1
Chromium	0.0019	J	0.0020	0.0012	mg/L		01/30/25 05:56	01/30/25 14:41	1
Cobalt	0.0015	J	0.0025	0.00022	mg/L		01/30/25 05:56	01/30/25 14:41	1
Copper	0.0011	J	0.0020	0.0011	mg/L		01/30/25 05:56	01/30/25 14:41	1
Lead	0.00060	J	0.0010	0.00021	mg/L		01/30/25 05:56	01/30/25 14:41	1
Vanadium	0.0010	J	0.0020	0.00063	mg/L		01/30/25 05:56	01/30/25 14:41	1
Zinc	0.013		0.0050	0.0028	mg/L		01/30/25 05:56	01/30/25 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	58		10	10	mg/L			01/30/25 08:25	1

Client Sample ID: MCI-GWA-7A

Lab Sample ID: 680-261240-6

Date Collected: 01/27/25 16:35

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.0		5.0	1.0	mg/L			02/04/25 16:06	5
Fluoride	<0.20		0.50	0.20	mg/L			02/04/25 16:06	5
Sulfate	65		5.0	2.0	mg/L			02/04/25 16:06	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.044		0.010	0.00089	mg/L		01/30/25 05:52	01/30/25 13:23	1
Beryllium	0.00051	J	0.0025	0.00020	mg/L		01/30/25 05:52	01/30/25 13:23	1
Boron	1.1		0.080	0.022	mg/L		01/30/25 05:52	01/30/25 13:23	1
Calcium	12		0.50	0.14	mg/L		01/30/25 05:52	01/30/25 13:23	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/30/25 05:52	01/30/25 13:23	1
Cobalt	0.0017	J	0.0025	0.00022	mg/L		01/30/25 05:52	01/30/25 13:23	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/30/25 05:52	01/30/25 13:23	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/30/25 05:52	01/30/25 13:23	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/30/25 05:52	01/30/25 13:23	1
Zinc	0.0087		0.0050	0.0028	mg/L		01/30/25 05:52	01/30/25 13:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	130		10	10	mg/L			01/30/25 08:25	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Client Sample ID: MCI-GWC-2

Lab Sample ID: 680-261240-7

Date Collected: 01/28/25 12:50

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.0		1.0	0.20	mg/L			02/04/25 19:20	1
Fluoride	<0.040		0.10	0.040	mg/L			02/04/25 19:20	1
Sulfate	4.6		1.0	0.40	mg/L			02/04/25 19:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.074		0.010	0.00089	mg/L		01/30/25 05:52	01/30/25 13:54	1
Beryllium	0.00041	J	0.0025	0.00020	mg/L		01/30/25 05:52	01/30/25 13:54	1
Boron	0.11		0.080	0.022	mg/L		01/30/25 05:52	01/30/25 13:54	1
Calcium	3.0		0.50	0.14	mg/L		01/30/25 05:52	01/30/25 13:54	1
Chromium	0.0019	J	0.0020	0.0012	mg/L		01/30/25 05:52	01/30/25 13:54	1
Cobalt	0.0017	J	0.0025	0.00022	mg/L		01/30/25 05:52	01/30/25 13:54	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/30/25 05:52	01/30/25 13:54	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/30/25 05:52	01/30/25 13:54	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/30/25 05:52	01/30/25 13:54	1
Zinc	0.0083		0.0050	0.0028	mg/L		01/30/25 05:52	01/30/25 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	42		10	10	mg/L			01/30/25 08:25	1

Client Sample ID: MCI-LF3-GWC-4A

Lab Sample ID: 680-261240-8

Date Collected: 01/28/25 13:58

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		1.0	0.20	mg/L			02/04/25 19:49	1
Fluoride	<0.040		0.10	0.040	mg/L			02/04/25 19:49	1
Sulfate	1.1		1.0	0.40	mg/L			02/04/25 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.047		0.010	0.00089	mg/L		01/30/25 05:52	01/30/25 13:52	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		01/30/25 05:52	01/30/25 13:52	1
Boron	0.023	J	0.080	0.022	mg/L		01/30/25 05:52	01/30/25 13:52	1
Calcium	0.53		0.50	0.14	mg/L		01/30/25 05:52	01/30/25 13:52	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/30/25 05:52	01/30/25 13:52	1
Cobalt	0.00061	J	0.0025	0.00022	mg/L		01/30/25 05:52	01/30/25 13:52	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/30/25 05:52	01/30/25 13:52	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/30/25 05:52	01/30/25 13:52	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/30/25 05:52	01/30/25 13:52	1
Zinc	0.0062		0.0050	0.0028	mg/L		01/30/25 05:52	01/30/25 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	37		10	10	mg/L			01/30/25 08:25	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Client Sample ID: MCI-GWA-3A

Lab Sample ID: 680-261240-9

Date Collected: 01/28/25 14:40

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34		5.0	1.0	mg/L			02/04/25 19:59	5
Fluoride	<0.20		0.50	0.20	mg/L			02/04/25 19:59	5
Sulfate	<2.0		5.0	2.0	mg/L			02/04/25 19:59	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.16		0.010	0.00089	mg/L		01/30/25 05:52	01/30/25 14:05	1
Beryllium	0.0012	J	0.0025	0.00020	mg/L		01/30/25 05:52	01/30/25 14:05	1
Boron	0.058	J	0.080	0.022	mg/L		01/30/25 05:52	01/30/25 14:05	1
Calcium	5.4		0.50	0.14	mg/L		01/30/25 05:52	01/30/25 14:05	1
Chromium	0.0017	J	0.0020	0.0012	mg/L		01/30/25 05:52	01/30/25 14:05	1
Cobalt	0.0031		0.0025	0.00022	mg/L		01/30/25 05:52	01/30/25 14:05	1
Copper	0.0018	J	0.0020	0.0011	mg/L		01/30/25 05:52	01/30/25 14:05	1
Lead	0.00031	J	0.0010	0.00021	mg/L		01/30/25 05:52	01/30/25 14:05	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/30/25 05:52	01/30/25 14:05	1
Zinc	0.011		0.0050	0.0028	mg/L		01/30/25 05:52	01/30/25 14:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	98		10	10	mg/L			01/30/25 08:25	1

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-261240-10

Date Collected: 01/28/25 15:30

Matrix: Water

Date Received: 01/29/25 08:44

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			02/04/25 20:08	1
Fluoride	<0.040		0.10	0.040	mg/L			02/04/25 20:08	1
Sulfate	<0.40		1.0	0.40	mg/L			02/04/25 20:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.13		0.010	0.00089	mg/L		01/30/25 05:56	01/30/25 14:51	1
Beryllium	0.00046	J	0.0025	0.00020	mg/L		01/30/25 05:56	01/30/25 14:51	1
Boron	<0.022		0.080	0.022	mg/L		01/30/25 05:56	01/30/25 14:51	1
Calcium	1.7		0.50	0.14	mg/L		01/30/25 05:56	01/30/25 14:51	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/30/25 05:56	01/30/25 14:51	1
Cobalt	0.0036		0.0025	0.00022	mg/L		01/30/25 05:56	01/30/25 14:51	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/30/25 05:56	01/30/25 14:51	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/30/25 05:56	01/30/25 14:51	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/30/25 05:56	01/30/25 14:51	1
Zinc	0.018		0.0050	0.0028	mg/L		01/30/25 05:56	01/30/25 14:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	37		10	10	mg/L			01/31/25 14:14	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-261240-11

Date Collected: 01/28/25 15:50

Matrix: Water

Date Received: 01/29/25 08:44

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			02/04/25 20:18	1
Fluoride	<0.040		0.10	0.040	mg/L			02/04/25 20:18	1
Sulfate	2.2		1.0	0.40	mg/L			02/04/25 20:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.086		0.010	0.00089	mg/L		01/30/25 05:52	01/30/25 14:10	1
Beryllium	0.00035	J	0.0025	0.00020	mg/L		01/30/25 05:52	01/30/25 14:10	1
Boron	0.032	J	0.080	0.022	mg/L		01/30/25 05:52	01/30/25 14:10	1
Calcium	3.2		0.50	0.14	mg/L		01/30/25 05:52	01/30/25 14:10	1
Chromium	0.0020		0.0020	0.0012	mg/L		01/30/25 05:52	01/30/25 14:10	1
Cobalt	0.00095	J	0.0025	0.00022	mg/L		01/30/25 05:52	01/30/25 14:10	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/30/25 05:52	01/30/25 14:10	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/30/25 05:52	01/30/25 14:10	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/30/25 05:52	01/30/25 14:10	1
Zinc	0.0047	J	0.0050	0.0028	mg/L		01/30/25 05:52	01/30/25 14:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	68		10	10	mg/L			01/31/25 14:14	1

Client Sample ID: MCI-LF3-FD-06

Lab Sample ID: 680-261240-12

Date Collected: 01/28/25 00:00

Matrix: Water

Date Received: 01/29/25 08:44

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			02/04/25 20:28	1
Fluoride	<0.040		0.10	0.040	mg/L			02/04/25 20:28	1
Sulfate	2.3		1.0	0.40	mg/L			02/04/25 20:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.090		0.010	0.00089	mg/L		01/30/25 05:52	01/30/25 13:49	1
Beryllium	0.00036	J	0.0025	0.00020	mg/L		01/30/25 05:52	01/30/25 13:49	1
Boron	0.043	J	0.080	0.022	mg/L		01/30/25 05:52	01/30/25 13:49	1
Calcium	3.2		0.50	0.14	mg/L		01/30/25 05:52	01/30/25 13:49	1
Chromium	0.0019	J	0.0020	0.0012	mg/L		01/30/25 05:52	01/30/25 13:49	1
Cobalt	0.00094	J	0.0025	0.00022	mg/L		01/30/25 05:52	01/30/25 13:49	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/30/25 05:52	01/30/25 13:49	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/30/25 05:52	01/30/25 13:49	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/30/25 05:52	01/30/25 13:49	1
Zinc	0.0047	J	0.0050	0.0028	mg/L		01/30/25 05:52	01/30/25 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	70		10	10	mg/L			01/31/25 14:14	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-261240-13

Date Collected: 01/28/25 16:25

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		2.0	0.40	mg/L			02/04/25 20:38	2
Fluoride	<0.080		0.20	0.080	mg/L			02/04/25 20:38	2
Sulfate	<0.80		2.0	0.80	mg/L			02/04/25 20:38	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.28		0.010	0.00089	mg/L		01/30/25 05:52	01/30/25 13:47	1
Beryllium	0.00045	J	0.0025	0.00020	mg/L		01/30/25 05:52	01/30/25 13:47	1
Boron	0.62		0.080	0.022	mg/L		01/30/25 05:52	01/30/25 13:47	1
Calcium	2.7		0.50	0.14	mg/L		01/30/25 05:52	01/30/25 13:47	1
Chromium	0.0028		0.0020	0.0012	mg/L		01/30/25 05:52	01/30/25 13:47	1
Cobalt	0.0047		0.0025	0.00022	mg/L		01/30/25 05:52	01/30/25 13:47	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/30/25 05:52	01/30/25 13:47	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/30/25 05:52	01/30/25 13:47	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/30/25 05:52	01/30/25 13:47	1
Zinc	0.021		0.0050	0.0028	mg/L		01/30/25 05:52	01/30/25 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	58		10	10	mg/L			01/31/25 14:14	1

Client Sample ID: MCI-LF3-FB-09

Lab Sample ID: 680-261240-14

Date Collected: 01/28/25 15:40

Matrix: Water

Date Received: 01/29/25 08:44

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			02/04/25 20:48	1
Fluoride	<0.040		0.10	0.040	mg/L			02/04/25 20:48	1
Sulfate	<0.40		1.0	0.40	mg/L			02/04/25 20:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.0036	J	0.010	0.00089	mg/L		01/30/25 05:52	01/30/25 13:39	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		01/30/25 05:52	01/30/25 13:39	1
Boron	<0.022		0.080	0.022	mg/L		01/30/25 05:52	01/30/25 13:39	1
Calcium	<0.14		0.50	0.14	mg/L		01/30/25 05:52	01/30/25 13:39	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/30/25 05:52	01/30/25 13:39	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		01/30/25 05:52	01/30/25 13:39	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/30/25 05:52	01/30/25 13:39	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/30/25 05:52	01/30/25 13:39	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/30/25 05:52	01/30/25 13:39	1
Zinc	<0.0028		0.0050	0.0028	mg/L		01/30/25 05:52	01/30/25 13:39	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			01/31/25 14:14	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Client Sample ID: MCI-LF3-FB-10

Lab Sample ID: 680-261240-15

Date Collected: 01/28/25 16:40

Matrix: Water

Date Received: 01/29/25 08:44

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			02/04/25 20:57	1
Fluoride	<0.040		0.10	0.040	mg/L			02/04/25 20:57	1
Sulfate	<0.40		1.0	0.40	mg/L			02/04/25 20:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		01/30/25 05:52	01/30/25 14:13	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		01/30/25 05:52	01/30/25 14:13	1
Boron	<0.022		0.080	0.022	mg/L		01/30/25 05:52	01/30/25 14:13	1
Calcium	<0.14		0.50	0.14	mg/L		01/30/25 05:52	01/30/25 14:13	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/30/25 05:52	01/30/25 14:13	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		01/30/25 05:52	01/30/25 14:13	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/30/25 05:52	01/30/25 14:13	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/30/25 05:52	01/30/25 14:13	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/30/25 05:52	01/30/25 14:13	1
Zinc	<0.0028		0.0050	0.0028	mg/L		01/30/25 05:52	01/30/25 14:13	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			01/31/25 14:14	1

Client Sample ID: MCI-LF3-EB-11

Lab Sample ID: 680-261240-16

Date Collected: 01/28/25 14:30

Matrix: Water

Date Received: 01/29/25 08:44

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			02/04/25 21:07	1
Fluoride	<0.040		0.10	0.040	mg/L			02/04/25 21:07	1
Sulfate	<0.40		1.0	0.40	mg/L			02/04/25 21:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		01/30/25 05:56	01/30/25 14:49	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		01/30/25 05:56	01/30/25 14:49	1
Boron	<0.022		0.080	0.022	mg/L		01/30/25 05:56	01/30/25 14:49	1
Calcium	<0.14		0.50	0.14	mg/L		01/30/25 05:56	01/30/25 14:49	1
Chromium	0.0012	J	0.0020	0.0012	mg/L		01/30/25 05:56	01/30/25 14:49	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		01/30/25 05:56	01/30/25 14:49	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/30/25 05:56	01/30/25 14:49	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/30/25 05:56	01/30/25 14:49	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/30/25 05:56	01/30/25 14:49	1
Zinc	<0.0028		0.0050	0.0028	mg/L		01/30/25 05:56	01/30/25 14:49	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			01/31/25 14:14	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Client Sample ID: MCI-LF3-EB-12

Lab Sample ID: 680-261240-17

Date Collected: 01/28/25 16:30

Matrix: Water

Date Received: 01/29/25 08:44

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			02/04/25 21:56	1
Fluoride	<0.040		0.10	0.040	mg/L			02/04/25 21:56	1
Sulfate	<0.40	F2	1.0	0.40	mg/L			02/04/25 21:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		01/30/25 05:52	01/30/25 13:41	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		01/30/25 05:52	01/30/25 13:41	1
Boron	<0.022		0.080	0.022	mg/L		01/30/25 05:52	01/30/25 13:41	1
Calcium	<0.14		0.50	0.14	mg/L		01/30/25 05:52	01/30/25 13:41	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/30/25 05:52	01/30/25 13:41	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		01/30/25 05:52	01/30/25 13:41	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/30/25 05:52	01/30/25 13:41	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/30/25 05:52	01/30/25 13:41	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/30/25 05:52	01/30/25 13:41	1
Zinc	<0.0028		0.0050	0.0028	mg/L		01/30/25 05:52	01/30/25 13:41	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			01/31/25 14:14	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

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

Lab Sample ID: MB 680-874378/2
Matrix: Water
Analysis Batch: 874378

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/04/25 10:39	1
Fluoride	<0.040		0.10	0.040	mg/L			02/04/25 10:39	1
Sulfate	<0.40		1.0	0.40	mg/L			02/04/25 10:39	1

Lab Sample ID: LCS 680-874378/3
Matrix: Water
Analysis Batch: 874378

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.57		mg/L		96	90 - 110
Fluoride	2.00	1.93		mg/L		96	90 - 110
Sulfate	10.0	9.89		mg/L		99	90 - 110

Lab Sample ID: LCSD 680-874378/4
Matrix: Water
Analysis Batch: 874378

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.1		mg/L		101	90 - 110	5	15
Fluoride	2.00	2.01		mg/L		101	90 - 110	4	15
Sulfate	10.0	10.7		mg/L		107	90 - 110	8	15

Lab Sample ID: 680-261240-1 MS
Matrix: Water
Analysis Batch: 874378

Client Sample ID: MCI-LF3-FD-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.0		10.0	16.0		mg/L		110	80 - 120
Fluoride	<0.040		2.00	2.20		mg/L		110	80 - 120
Sulfate	4.7		10.0	16.5		mg/L		118	80 - 120

Lab Sample ID: 680-261240-1 MSD
Matrix: Water
Analysis Batch: 874378

Client Sample ID: MCI-LF3-FD-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.0		10.0	15.9		mg/L		109	80 - 120	1	15
Fluoride	<0.040		2.00	2.22		mg/L		111	80 - 120	1	15
Sulfate	4.7		10.0	16.7		mg/L		120	80 - 120	1	15

Lab Sample ID: 680-261240-7 MS
Matrix: Water
Analysis Batch: 874378

Client Sample ID: MCI-GWC-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.0		10.0	15.3		mg/L		102	80 - 120
Fluoride	<0.040		2.00	2.04		mg/L		102	80 - 120
Sulfate	4.6		10.0	14.7		mg/L		101	80 - 120

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

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

Lab Sample ID: 680-261240-7 MSD
Matrix: Water
Analysis Batch: 874378

Client Sample ID: MCI-GWC-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.0		10.0	14.9		mg/L		99	80 - 120	2	15
Fluoride	<0.040		2.00	1.97		mg/L		98	80 - 120	4	15
Sulfate	4.6		10.0	14.1		mg/L		95	80 - 120	4	15

Lab Sample ID: MB 680-874442/33
Matrix: Water
Analysis Batch: 874442

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			02/04/25 21:27	1
Fluoride	<0.040		0.10	0.040	mg/L			02/04/25 21:27	1
Sulfate	<0.40		1.0	0.40	mg/L			02/04/25 21:27	1

Lab Sample ID: LCS 680-874442/34
Matrix: Water
Analysis Batch: 874442

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	10.4		mg/L		104	90 - 110
Fluoride	2.00	2.16		mg/L		108	90 - 110
Sulfate	10.0	10.5		mg/L		105	90 - 110

Lab Sample ID: LCSD 680-874442/35
Matrix: Water
Analysis Batch: 874442

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.0	10.1		mg/L		101	90 - 110	3	15
Fluoride	2.00	2.15		mg/L		108	90 - 110	0	15
Sulfate	10.0	10.3		mg/L		103	90 - 110	3	15

Lab Sample ID: 680-261240-17 MS
Matrix: Water
Analysis Batch: 874442

Client Sample ID: MCI-LF3-EB-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<0.20		10.0	10.3		mg/L		103	80 - 120
Fluoride	<0.040		2.00	2.22		mg/L		111	80 - 120
Sulfate	<0.40	F2	10.0	10.7		mg/L		107	80 - 120

Lab Sample ID: 680-261240-17 MSD
Matrix: Water
Analysis Batch: 874442

Client Sample ID: MCI-LF3-EB-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<0.20		10.0	9.56		mg/L		96	80 - 120	8	15
Fluoride	<0.040		2.00	1.99		mg/L		100	80 - 120	11	15
Sulfate	<0.40	F2	10.0	8.93	F2	mg/L		89	80 - 120	18	15

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-873752/1-A
Matrix: Water
Analysis Batch: 873928

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 873752

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		01/30/25 05:52	01/30/25 13:03	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		01/30/25 05:52	01/30/25 13:03	1
Boron	<0.022		0.080	0.022	mg/L		01/30/25 05:52	01/30/25 13:03	1
Calcium	<0.14		0.50	0.14	mg/L		01/30/25 05:52	01/30/25 13:03	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/30/25 05:52	01/30/25 13:03	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		01/30/25 05:52	01/30/25 13:03	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/30/25 05:52	01/30/25 13:03	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/30/25 05:52	01/30/25 13:03	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/30/25 05:52	01/30/25 13:03	1
Zinc	<0.0028		0.0050	0.0028	mg/L		01/30/25 05:52	01/30/25 13:03	1

Lab Sample ID: LCS 680-873752/2-A
Matrix: Water
Analysis Batch: 873928

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 873752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.107		mg/L		107	80 - 120
Beryllium	0.0500	0.0537		mg/L		107	80 - 120
Boron	0.400	0.417		mg/L		104	80 - 120
Calcium	5.00	5.42		mg/L		108	80 - 120
Chromium	0.100	0.108		mg/L		108	80 - 120
Cobalt	0.0500	0.0537		mg/L		107	80 - 120
Copper	0.101	0.112		mg/L		111	80 - 120
Lead	0.500	0.538		mg/L		108	80 - 120
Vanadium	0.100	0.106		mg/L		106	80 - 120
Zinc	0.100	0.113		mg/L		113	80 - 120

Lab Sample ID: 400-269845-K-8-B MS
Matrix: Water
Analysis Batch: 873928

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 873752

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	<0.00089		0.100	0.104		mg/L		104	75 - 125
Beryllium	<0.00020		0.0500	0.0503		mg/L		101	75 - 125
Boron	<0.022		0.400	0.419		mg/L		105	75 - 125
Calcium	<0.14		5.00	5.33		mg/L		107	75 - 125
Chromium	0.0013	J	0.100	0.105		mg/L		104	75 - 125
Cobalt	<0.00022		0.0500	0.0526		mg/L		105	75 - 125
Copper	<0.0011		0.101	0.108		mg/L		107	75 - 125
Lead	<0.00021		0.500	0.527		mg/L		105	75 - 125
Vanadium	<0.00063		0.100	0.103		mg/L		103	75 - 125
Zinc	<0.0028		0.100	0.109		mg/L		109	75 - 125

Lab Sample ID: 400-269845-K-8-C MSD
Matrix: Water
Analysis Batch: 873928

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 873752

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	<0.00089		0.100	0.108		mg/L		108	75 - 125	4	20

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

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

Lab Sample ID: 400-269845-K-8-C MSD
Matrix: Water
Analysis Batch: 873928

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 873752

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.00020		0.0500	0.0531		mg/L		106	75 - 125	5	20
Boron	<0.022		0.400	0.437		mg/L		109	75 - 125	4	20
Calcium	<0.14		5.00	5.41		mg/L		108	75 - 125	2	20
Chromium	0.0013	J	0.100	0.108		mg/L		107	75 - 125	2	20
Cobalt	<0.00022		0.0500	0.0535		mg/L		107	75 - 125	2	20
Copper	<0.0011		0.101	0.113		mg/L		112	75 - 125	5	20
Lead	<0.00021		0.500	0.547		mg/L		109	75 - 125	4	20
Vanadium	<0.00063		0.100	0.105		mg/L		105	75 - 125	2	20
Zinc	<0.0028		0.100	0.112		mg/L		112	75 - 125	3	20

Lab Sample ID: MB 680-873753/1-A
Matrix: Water
Analysis Batch: 873928

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 873753

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		01/30/25 05:56	01/30/25 14:36	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		01/30/25 05:56	01/30/25 14:36	1
Boron	<0.022		0.080	0.022	mg/L		01/30/25 05:56	01/30/25 14:36	1
Calcium	<0.14		0.50	0.14	mg/L		01/30/25 05:56	01/30/25 14:36	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/30/25 05:56	01/30/25 14:36	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		01/30/25 05:56	01/30/25 14:36	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/30/25 05:56	01/30/25 14:36	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/30/25 05:56	01/30/25 14:36	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/30/25 05:56	01/30/25 14:36	1
Zinc	<0.0028		0.0050	0.0028	mg/L		01/30/25 05:56	01/30/25 14:36	1

Lab Sample ID: LCS 680-873753/2-A
Matrix: Water
Analysis Batch: 873928

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 873753

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.106		mg/L		106	80 - 120
Beryllium	0.0500	0.0549		mg/L		110	80 - 120
Boron	0.400	0.424		mg/L		106	80 - 120
Calcium	5.00	5.50		mg/L		110	80 - 120
Chromium	0.100	0.109		mg/L		109	80 - 120
Cobalt	0.0500	0.0537		mg/L		107	80 - 120
Copper	0.101	0.111		mg/L		110	80 - 120
Lead	0.500	0.536		mg/L		107	80 - 120
Vanadium	0.100	0.106		mg/L		106	80 - 120
Zinc	0.100	0.116		mg/L		116	80 - 120

Lab Sample ID: 680-261240-5 MS
Matrix: Water
Analysis Batch: 873928

Client Sample ID: MCI-LF3-GWA-5
Prep Type: Total Recoverable
Prep Batch: 873753

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.13		0.100	0.259		mg/L		124	75 - 125
Beryllium	0.00035	J	0.0500	0.0606		mg/L		121	75 - 125

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

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

Lab Sample ID: 680-261240-5 MS
Matrix: Water
Analysis Batch: 873928

Client Sample ID: MCI-LF3-GWA-5
Prep Type: Total Recoverable
Prep Batch: 873753

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.047	J	0.400	0.491		mg/L		111	75 - 125
Calcium	3.5		5.00	9.59		mg/L		123	75 - 125
Chromium	0.0019	J	0.100	0.118		mg/L		116	75 - 125
Cobalt	0.0015	J	0.0500	0.0590		mg/L		115	75 - 125
Copper	0.0011	J	0.101	0.120		mg/L		119	75 - 125
Lead	0.00060	J	0.500	0.587		mg/L		117	75 - 125
Vanadium	0.0010	J	0.100	0.116		mg/L		115	75 - 125
Zinc	0.013		0.100	0.130		mg/L		117	75 - 125

Lab Sample ID: 680-261240-5 MSD
Matrix: Water
Analysis Batch: 873928

Client Sample ID: MCI-LF3-GWA-5
Prep Type: Total Recoverable
Prep Batch: 873753

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.13		0.100	0.228		mg/L		94	75 - 125	12	20
Beryllium	0.00035	J	0.0500	0.0544		mg/L		108	75 - 125	11	20
Boron	0.047	J	0.400	0.460		mg/L		103	75 - 125	6	20
Calcium	3.5		5.00	8.66		mg/L		104	75 - 125	10	20
Chromium	0.0019	J	0.100	0.108		mg/L		106	75 - 125	8	20
Cobalt	0.0015	J	0.0500	0.0547		mg/L		106	75 - 125	8	20
Copper	0.0011	J	0.101	0.110		mg/L		109	75 - 125	8	20
Lead	0.00060	J	0.500	0.524		mg/L		105	75 - 125	11	20
Vanadium	0.0010	J	0.100	0.106		mg/L		105	75 - 125	9	20
Zinc	0.013		0.100	0.129		mg/L		115	75 - 125	1	20

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

Lab Sample ID: MB 680-873775/1
Matrix: Water
Analysis Batch: 873775

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			01/30/25 08:25	1

Lab Sample ID: LCS 680-873775/2
Matrix: Water
Analysis Batch: 873775

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	2440	2420		mg/L		99	80 - 120

Lab Sample ID: LCSD 680-873775/3
Matrix: Water
Analysis Batch: 873775

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2440	2390		mg/L		98	80 - 120	1	25

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

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

Lab Sample ID: 680-261240-4 DU
Matrix: Water
Analysis Batch: 873775

Client Sample ID: MCI-GWA-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	37		36.0		mg/L		1	5

Lab Sample ID: MB 680-874042/1
Matrix: Water
Analysis Batch: 874042

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			01/31/25 14:14	1

Lab Sample ID: LCS 680-874042/2
Matrix: Water
Analysis Batch: 874042

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	2440	2400		mg/L		98	80 - 120

Lab Sample ID: LCSD 680-874042/3
Matrix: Water
Analysis Batch: 874042

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	2440	2390		mg/L		98	80 - 120	0	25

Lab Sample ID: 680-261192-B-4 DU
Matrix: Water
Analysis Batch: 874042

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	630		626		mg/L		0.6	5

Lab Sample ID: 680-261192-B-5 DU
Matrix: Water
Analysis Batch: 874042

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	610		590		mg/L		3	5

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

HPLC/IC

Analysis Batch: 874378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261240-1	MCI-LF3-FD-05	Total/NA	Water	300.0-1993 R2.1	
680-261240-2	MCI-GWA-1B	Total/NA	Water	300.0-1993 R2.1	
680-261240-3	MCI-GWA-2B	Total/NA	Water	300.0-1993 R2.1	
680-261240-4	MCI-GWA-4	Total/NA	Water	300.0-1993 R2.1	
680-261240-5	MCI-LF3-GWA-5	Total/NA	Water	300.0-1993 R2.1	
680-261240-6	MCI-GWA-7A	Total/NA	Water	300.0-1993 R2.1	
680-261240-7	MCI-GWC-2	Total/NA	Water	300.0-1993 R2.1	
680-261240-8	MCI-LF3-GWC-4A	Total/NA	Water	300.0-1993 R2.1	
680-261240-9	MCI-GWA-3A	Total/NA	Water	300.0-1993 R2.1	
680-261240-10	MCI-GWC-5A	Total/NA	Water	300.0-1993 R2.1	
680-261240-11	MCI-GWC-6A	Total/NA	Water	300.0-1993 R2.1	
680-261240-12	MCI-LF3-FD-06	Total/NA	Water	300.0-1993 R2.1	
680-261240-13	MCI-GWC-1A	Total/NA	Water	300.0-1993 R2.1	
680-261240-14	MCI-LF3-FB-09	Total/NA	Water	300.0-1993 R2.1	
680-261240-15	MCI-LF3-FB-10	Total/NA	Water	300.0-1993 R2.1	
680-261240-16	MCI-LF3-EB-11	Total/NA	Water	300.0-1993 R2.1	
MB 680-874378/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-874378/3	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-874378/4	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-261240-1 MS	MCI-LF3-FD-05	Total/NA	Water	300.0-1993 R2.1	
680-261240-1 MSD	MCI-LF3-FD-05	Total/NA	Water	300.0-1993 R2.1	
680-261240-7 MS	MCI-GWC-2	Total/NA	Water	300.0-1993 R2.1	
680-261240-7 MSD	MCI-GWC-2	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 874442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261240-17	MCI-LF3-EB-12	Total/NA	Water	300.0-1993 R2.1	
MB 680-874442/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-874442/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-874442/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-261240-17 MS	MCI-LF3-EB-12	Total/NA	Water	300.0-1993 R2.1	
680-261240-17 MSD	MCI-LF3-EB-12	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 873752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261240-1	MCI-LF3-FD-05	Total Recoverable	Water	3005A	
680-261240-2	MCI-GWA-1B	Total Recoverable	Water	3005A	
680-261240-3	MCI-GWA-2B	Total Recoverable	Water	3005A	
680-261240-4	MCI-GWA-4	Total Recoverable	Water	3005A	
680-261240-6	MCI-GWA-7A	Total Recoverable	Water	3005A	
680-261240-7	MCI-GWC-2	Total Recoverable	Water	3005A	
680-261240-8	MCI-LF3-GWC-4A	Total Recoverable	Water	3005A	
680-261240-9	MCI-GWA-3A	Total Recoverable	Water	3005A	
680-261240-11	MCI-GWC-6A	Total Recoverable	Water	3005A	
680-261240-12	MCI-LF3-FD-06	Total Recoverable	Water	3005A	
680-261240-13	MCI-GWC-1A	Total Recoverable	Water	3005A	
680-261240-14	MCI-LF3-FB-09	Total Recoverable	Water	3005A	
680-261240-15	MCI-LF3-FB-10	Total Recoverable	Water	3005A	
680-261240-17	MCI-LF3-EB-12	Total Recoverable	Water	3005A	

Eurofins Savannah

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Metals (Continued)

Prep Batch: 873752 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-873752/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-873752/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-269845-K-8-B MS	Matrix Spike	Total Recoverable	Water	3005A	
400-269845-K-8-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 873753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261240-5	MCI-LF3-GWA-5	Total Recoverable	Water	3005A	
680-261240-10	MCI-GWC-5A	Total Recoverable	Water	3005A	
680-261240-16	MCI-LF3-EB-11	Total Recoverable	Water	3005A	
MB 680-873753/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-873753/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-261240-5 MS	MCI-LF3-GWA-5	Total Recoverable	Water	3005A	
680-261240-5 MSD	MCI-LF3-GWA-5	Total Recoverable	Water	3005A	

Analysis Batch: 873928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261240-1	MCI-LF3-FD-05	Total Recoverable	Water	6020B	873752
680-261240-2	MCI-GWA-1B	Total Recoverable	Water	6020B	873752
680-261240-3	MCI-GWA-2B	Total Recoverable	Water	6020B	873752
680-261240-4	MCI-GWA-4	Total Recoverable	Water	6020B	873752
680-261240-5	MCI-LF3-GWA-5	Total Recoverable	Water	6020B	873753
680-261240-6	MCI-GWA-7A	Total Recoverable	Water	6020B	873752
680-261240-7	MCI-GWC-2	Total Recoverable	Water	6020B	873752
680-261240-8	MCI-LF3-GWC-4A	Total Recoverable	Water	6020B	873752
680-261240-9	MCI-GWA-3A	Total Recoverable	Water	6020B	873752
680-261240-10	MCI-GWC-5A	Total Recoverable	Water	6020B	873753
680-261240-11	MCI-GWC-6A	Total Recoverable	Water	6020B	873752
680-261240-12	MCI-LF3-FD-06	Total Recoverable	Water	6020B	873752
680-261240-13	MCI-GWC-1A	Total Recoverable	Water	6020B	873752
680-261240-14	MCI-LF3-FB-09	Total Recoverable	Water	6020B	873752
680-261240-15	MCI-LF3-FB-10	Total Recoverable	Water	6020B	873752
680-261240-16	MCI-LF3-EB-11	Total Recoverable	Water	6020B	873753
680-261240-17	MCI-LF3-EB-12	Total Recoverable	Water	6020B	873752
MB 680-873752/1-A	Method Blank	Total Recoverable	Water	6020B	873752
MB 680-873753/1-A	Method Blank	Total Recoverable	Water	6020B	873753
LCS 680-873752/2-A	Lab Control Sample	Total Recoverable	Water	6020B	873752
LCS 680-873753/2-A	Lab Control Sample	Total Recoverable	Water	6020B	873753
400-269845-K-8-B MS	Matrix Spike	Total Recoverable	Water	6020B	873752
400-269845-K-8-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	873752
680-261240-5 MS	MCI-LF3-GWA-5	Total Recoverable	Water	6020B	873753
680-261240-5 MSD	MCI-LF3-GWA-5	Total Recoverable	Water	6020B	873753

General Chemistry

Analysis Batch: 873775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261240-1	MCI-LF3-FD-05	Total/NA	Water	2540C-2011	
680-261240-2	MCI-GWA-1B	Total/NA	Water	2540C-2011	
680-261240-3	MCI-GWA-2B	Total/NA	Water	2540C-2011	
680-261240-4	MCI-GWA-4	Total/NA	Water	2540C-2011	

Eurofins Savannah

QC Association Summary

Client: Southern Company
 Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

General Chemistry (Continued)

Analysis Batch: 873775 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261240-5	MCI-LF3-GWA-5	Total/NA	Water	2540C-2011	
680-261240-6	MCI-GWA-7A	Total/NA	Water	2540C-2011	
680-261240-7	MCI-GWC-2	Total/NA	Water	2540C-2011	
680-261240-8	MCI-LF3-GWC-4A	Total/NA	Water	2540C-2011	
680-261240-9	MCI-GWA-3A	Total/NA	Water	2540C-2011	
MB 680-873775/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-873775/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-873775/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-261240-4 DU	MCI-GWA-4	Total/NA	Water	2540C-2011	

Analysis Batch: 874042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261240-10	MCI-GWC-5A	Total/NA	Water	2540C-2011	
680-261240-11	MCI-GWC-6A	Total/NA	Water	2540C-2011	
680-261240-12	MCI-LF3-FD-06	Total/NA	Water	2540C-2011	
680-261240-13	MCI-GWC-1A	Total/NA	Water	2540C-2011	
680-261240-14	MCI-LF3-FB-09	Total/NA	Water	2540C-2011	
680-261240-15	MCI-LF3-FB-10	Total/NA	Water	2540C-2011	
680-261240-16	MCI-LF3-EB-11	Total/NA	Water	2540C-2011	
680-261240-17	MCI-LF3-EB-12	Total/NA	Water	2540C-2011	
MB 680-874042/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-874042/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-874042/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-261192-B-4 DU	Duplicate	Total/NA	Water	2540C-2011	
680-261192-B-5 DU	Duplicate	Total/NA	Water	2540C-2011	

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Client Sample ID: MCI-LF3-FD-05

Lab Sample ID: 680-261240-1

Date Collected: 01/28/25 00:00

Matrix: Water

Date Received: 01/29/25 08:44

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	874378	02/04/25 14:57	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 13:34	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	873775	01/30/25 08:25	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-261240-2

Date Collected: 01/28/25 09:55

Matrix: Water

Date Received: 01/29/25 08:44

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	874378	02/04/25 15:27	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 13:26	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	873775	01/30/25 08:25	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWA-2B

Lab Sample ID: 680-261240-3

Date Collected: 01/28/25 11:05

Matrix: Water

Date Received: 01/29/25 08:44

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		2	5 mL	5 mL	874378	02/04/25 15:36	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 13:44	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	873775	01/30/25 08:25	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWA-4

Lab Sample ID: 680-261240-4

Date Collected: 01/28/25 11:40

Matrix: Water

Date Received: 01/29/25 08:44

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	874378	02/04/25 15:46	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 13:57	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	873775	01/30/25 08:25	PG	EET SAV
Instrument ID: NOEQUIP										

Eurofins Savannah

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Client Sample ID: MCI-LF3-GWA-5

Lab Sample ID: 680-261240-5

Date Collected: 01/28/25 10:30

Matrix: Water

Date Received: 01/29/25 08:44

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	874378	02/04/25 15:56	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	873753	01/30/25 05:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 14:41	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	873775	01/30/25 08:25	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWA-7A

Lab Sample ID: 680-261240-6

Date Collected: 01/27/25 16:35

Matrix: Water

Date Received: 01/29/25 08:44

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		5	5 mL	5 mL	874378	02/04/25 16:06	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 13:23	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	873775	01/30/25 08:25	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWC-2

Lab Sample ID: 680-261240-7

Date Collected: 01/28/25 12:50

Matrix: Water

Date Received: 01/29/25 08:44

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	874378	02/04/25 19:20	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 13:54	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	873775	01/30/25 08:25	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-GWC-4A

Lab Sample ID: 680-261240-8

Date Collected: 01/28/25 13:58

Matrix: Water

Date Received: 01/29/25 08:44

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	874378	02/04/25 19:49	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 13:52	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	873775	01/30/25 08:25	PG	EET SAV
Instrument ID: NOEQUIP										

Eurofins Savannah

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Client Sample ID: MCI-GWA-3A

Lab Sample ID: 680-261240-9

Date Collected: 01/28/25 14:40

Matrix: Water

Date Received: 01/29/25 08:44

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		5	5 mL	5 mL	874378	02/04/25 19:59	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 14:05	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	873775	01/30/25 08:25	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-261240-10

Date Collected: 01/28/25 15:30

Matrix: Water

Date Received: 01/29/25 08:44

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	874378	02/04/25 20:08	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	873753	01/30/25 05:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 14:51	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	874042	01/31/25 14:14	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-261240-11

Date Collected: 01/28/25 15:50

Matrix: Water

Date Received: 01/29/25 08:44

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	874378	02/04/25 20:18	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 14:10	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	874042	01/31/25 14:14	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-FD-06

Lab Sample ID: 680-261240-12

Date Collected: 01/28/25 00:00

Matrix: Water

Date Received: 01/29/25 08:44

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	874378	02/04/25 20:28	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 13:49	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	874042	01/31/25 14:14	PG	EET SAV
Instrument ID: NOEQUIP										

Eurofins Savannah

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-261240-13

Date Collected: 01/28/25 16:25

Matrix: Water

Date Received: 01/29/25 08:44

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		2	5 mL	5 mL	874378	02/04/25 20:38	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 13:47	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	874042	01/31/25 14:14	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-FB-09

Lab Sample ID: 680-261240-14

Date Collected: 01/28/25 15:40

Matrix: Water

Date Received: 01/29/25 08:44

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	874378	02/04/25 20:48	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 13:39	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	874042	01/31/25 14:14	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-FB-10

Lab Sample ID: 680-261240-15

Date Collected: 01/28/25 16:40

Matrix: Water

Date Received: 01/29/25 08:44

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	874378	02/04/25 20:57	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 14:13	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	874042	01/31/25 14:14	PG	EET SAV
Instrument ID: NOEQUIP										

Client Sample ID: MCI-LF3-EB-11

Lab Sample ID: 680-261240-16

Date Collected: 01/28/25 14:30

Matrix: Water

Date Received: 01/29/25 08:44

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	874378	02/04/25 21:07	AF	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	873753	01/30/25 05:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 14:49	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	874042	01/31/25 14:14	PG	EET SAV
Instrument ID: NOEQUIP										

Eurofins Savannah

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Client Sample ID: MCI-LF3-EB-12
Date Collected: 01/28/25 16:30
Date Received: 01/29/25 08:44

Lab Sample ID: 680-261240-17
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	300.0-1993 R2.1		1	5 mL	5 mL	874442	02/04/25 21:56	BS	EET SAV
Instrument ID: CICP										
Total Recoverable	Prep	3005A			25 mL	125 mL	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 13:41	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	874042	01/31/25 14:14	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 Landfill 3

Job ID: 680-261240-1

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-25
Georgia	State	E87052	06-30-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Method Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-1

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6020B	Metals (ICP/MS)	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

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

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-261240-1

Login Number: 261240

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

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	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.



 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Kevin Stephenson
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308
Generated 1/31/2025 5:47:32 PM

JOB DESCRIPTION

Plant McIntosh Landfill 3

JOB NUMBER

680-261240-2

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



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

Generated
1/31/2025 5:47:32 PM

Definitions/Glossary

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-2

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 Landfill 3

Job ID: 680-261240-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-261240-2	MCI-GWA-1B	Water	01/28/25 09:55	01/29/25 08:44
680-261240-3	MCI-GWA-2B	Water	01/28/25 11:05	01/29/25 08:44
680-261240-4	MCI-GWA-4	Water	01/28/25 11:40	01/29/25 08:44
680-261240-5	MCI-LF3-GWA-5	Water	01/28/25 10:30	01/29/25 08:44
680-261240-6	MCI-GWA-7A	Water	01/27/25 16:35	01/29/25 08:44
680-261240-7	MCI-GWC-2	Water	01/28/25 12:50	01/29/25 08:44
680-261240-8	MCI-LF3-GWC-4A	Water	01/28/25 13:58	01/29/25 08:44
680-261240-9	MCI-GWA-3A	Water	01/28/25 14:40	01/29/25 08:44
680-261240-10	MCI-GWC-5A	Water	01/28/25 15:30	01/29/25 08:44
680-261240-11	MCI-GWC-6A	Water	01/28/25 15:50	01/29/25 08:44
680-261240-13	MCI-GWC-1A	Water	01/28/25 16:25	01/29/25 08:44

1

2

3

4

5

6

7

8

9

10

11

12

Case Narrative

Client: Southern Company
Project: Plant McIntosh Landfill 3

Job ID: 680-261240-2

Job ID: 680-261240-2

Eurofins Savannah

Job Narrative 680-261240-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/29/2025 8:44 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.4°C and 4.5°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.

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-2

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-261240-2

Date Collected: 01/28/25 09:55

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	0.67		0.50	0.023	mg/L		01/30/25 05:52	01/30/25 13:26	1
Potassium	0.94		0.50	0.044	mg/L		01/30/25 05:52	01/30/25 13:26	1
Sodium	4.4		0.50	0.20	mg/L		01/30/25 05:52	01/30/25 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	6.7		5.0	5.0	mg/L			01/30/25 15:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	6.7		5.0	5.0	mg/L			01/30/25 15:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 15:08	1

Client Sample ID: MCI-GWA-2B

Lab Sample ID: 680-261240-3

Date Collected: 01/28/25 11:05

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	3.4		0.50	0.023	mg/L		01/30/25 05:52	01/30/25 13:44	1
Potassium	2.9		0.50	0.044	mg/L		01/30/25 05:52	01/30/25 13:44	1
Sodium	13		0.50	0.20	mg/L		01/30/25 05:52	01/30/25 13:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	5.7		5.0	5.0	mg/L			01/30/25 14:48	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	5.7		5.0	5.0	mg/L			01/30/25 14:48	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 14:48	1

Client Sample ID: MCI-GWA-4

Lab Sample ID: 680-261240-4

Date Collected: 01/28/25 11:40

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	1.2		0.50	0.023	mg/L		01/30/25 05:52	01/30/25 13:57	1
Potassium	1.1		0.50	0.044	mg/L		01/30/25 05:52	01/30/25 13:57	1
Sodium	4.7		0.50	0.20	mg/L		01/30/25 05:52	01/30/25 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 17:15	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 17:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 17:15	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-2

Client Sample ID: MCI-LF3-GWA-5

Lab Sample ID: 680-261240-5

Date Collected: 01/28/25 10:30

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	2.6		0.50	0.023	mg/L		01/30/25 05:56	01/30/25 14:41	1
Potassium	2.1		0.50	0.044	mg/L		01/30/25 05:56	01/30/25 14:41	1
Sodium	6.2		0.50	0.20	mg/L		01/30/25 05:56	01/30/25 14:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 17:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 17:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 17:27	1

Client Sample ID: MCI-GWA-7A

Lab Sample ID: 680-261240-6

Date Collected: 01/27/25 16:35

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	3.4		0.50	0.023	mg/L		01/30/25 05:52	01/30/25 13:23	1
Potassium	2.6		0.50	0.044	mg/L		01/30/25 05:52	01/30/25 13:23	1
Sodium	14		0.50	0.20	mg/L		01/30/25 05:52	01/30/25 13:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	5.7		5.0	5.0	mg/L			01/30/25 17:33	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	5.7		5.0	5.0	mg/L			01/30/25 17:33	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 17:33	1

Client Sample ID: MCI-GWC-2

Lab Sample ID: 680-261240-7

Date Collected: 01/28/25 12:50

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	1.0		0.50	0.023	mg/L		01/30/25 05:52	01/30/25 13:54	1
Potassium	2.0		0.50	0.044	mg/L		01/30/25 05:52	01/30/25 13:54	1
Sodium	5.1		0.50	0.20	mg/L		01/30/25 05:52	01/30/25 13:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	9.6		5.0	5.0	mg/L			01/30/25 14:55	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	9.6		5.0	5.0	mg/L			01/30/25 14:55	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 14:55	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-2

Client Sample ID: MCI-LF3-GWC-4A

Lab Sample ID: 680-261240-8

Date Collected: 01/28/25 13:58

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	1.2		0.50	0.023	mg/L		01/30/25 05:52	01/30/25 13:52	1
Potassium	0.95		0.50	0.044	mg/L		01/30/25 05:52	01/30/25 13:52	1
Sodium	6.7		0.50	0.20	mg/L		01/30/25 05:52	01/30/25 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 15:02	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 15:02	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 15:02	1

Client Sample ID: MCI-GWA-3A

Lab Sample ID: 680-261240-9

Date Collected: 01/28/25 14:40

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	2.3		0.50	0.023	mg/L		01/30/25 05:52	01/30/25 14:05	1
Potassium	3.8		0.50	0.044	mg/L		01/30/25 05:52	01/30/25 14:05	1
Sodium	10		0.50	0.20	mg/L		01/30/25 05:52	01/30/25 14:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 14:41	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 14:41	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 14:41	1

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-261240-10

Date Collected: 01/28/25 15:30

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	2.2		0.50	0.023	mg/L		01/30/25 05:56	01/30/25 14:51	1
Potassium	1.6		0.50	0.044	mg/L		01/30/25 05:56	01/30/25 14:51	1
Sodium	2.9		0.50	0.20	mg/L		01/30/25 05:56	01/30/25 14:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 14:34	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 14:34	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 14:34	1

Eurofins Savannah

Client Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-2

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-261240-11

Date Collected: 01/28/25 15:50

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	1.5		0.50	0.023	mg/L		01/30/25 05:52	01/30/25 14:10	1
Potassium	1.7		0.50	0.044	mg/L		01/30/25 05:52	01/30/25 14:10	1
Sodium	5.6		0.50	0.20	mg/L		01/30/25 05:52	01/30/25 14:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	13		5.0	5.0	mg/L			01/30/25 19:49	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	13		5.0	5.0	mg/L			01/30/25 19:49	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/30/25 19:49	1

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-261240-13

Date Collected: 01/28/25 16:25

Matrix: Water

Date Received: 01/29/25 08:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	3.5		0.50	0.023	mg/L		01/30/25 05:52	01/30/25 13:47	1
Potassium	2.1		0.50	0.044	mg/L		01/30/25 05:52	01/30/25 13:47	1
Sodium	5.4		0.50	0.20	mg/L		01/30/25 05:52	01/30/25 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/31/25 12:48	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/31/25 12:48	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/31/25 12:48	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-2

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-873752/1-A
Matrix: Water
Analysis Batch: 873928

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 873752

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	<0.023		0.50	0.023	mg/L		01/30/25 05:52	01/30/25 13:03	1
Potassium	<0.044		0.50	0.044	mg/L		01/30/25 05:52	01/30/25 13:03	1
Sodium	<0.20		0.50	0.20	mg/L		01/30/25 05:52	01/30/25 13:03	1

Lab Sample ID: LCS 680-873752/2-A
Matrix: Water
Analysis Batch: 873928

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 873752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	5.00	5.14		mg/L		103	80 - 120
Potassium	7.00	7.60		mg/L		109	80 - 120
Sodium	5.00	5.12		mg/L		102	80 - 120

Lab Sample ID: 400-269845-K-8-B MS
Matrix: Water
Analysis Batch: 873928

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 873752

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	<0.023		5.00	5.29		mg/L		106	75 - 125
Potassium	<0.044		7.00	7.53		mg/L		108	75 - 125
Sodium	0.23	J	5.00	5.32		mg/L		102	75 - 125

Lab Sample ID: 400-269845-K-8-C MSD
Matrix: Water
Analysis Batch: 873928

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 873752

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Magnesium	<0.023		5.00	5.43		mg/L		109	75 - 125	3	20
Potassium	<0.044		7.00	7.59		mg/L		108	75 - 125	1	20
Sodium	0.23	J	5.00	5.55		mg/L		107	75 - 125	4	20

Lab Sample ID: MB 680-873753/1-A
Matrix: Water
Analysis Batch: 873928

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 873753

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	<0.023		0.50	0.023	mg/L		01/30/25 05:56	01/30/25 14:36	1
Potassium	<0.044		0.50	0.044	mg/L		01/30/25 05:56	01/30/25 14:36	1
Sodium	<0.20		0.50	0.20	mg/L		01/30/25 05:56	01/30/25 14:36	1

Lab Sample ID: LCS 680-873753/2-A
Matrix: Water
Analysis Batch: 873928

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 873753

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	5.00	5.22		mg/L		104	80 - 120
Potassium	7.00	7.71		mg/L		110	80 - 120
Sodium	5.00	5.14		mg/L		103	80 - 120

Eurofins Savannah

QC Sample Results

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-2

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

Lab Sample ID: 680-261240-5 MS
Matrix: Water
Analysis Batch: 873928

Client Sample ID: MCI-LF3-GWA-5
Prep Type: Total Recoverable
Prep Batch: 873753

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	2.6		5.00	8.41		mg/L		117	75 - 125
Potassium	2.1		7.00	10.5		mg/L		119	75 - 125
Sodium	6.2		5.00	11.8		mg/L		111	75 - 125

Lab Sample ID: 680-261240-5 MSD
Matrix: Water
Analysis Batch: 873928

Client Sample ID: MCI-LF3-GWA-5
Prep Type: Total Recoverable
Prep Batch: 873753

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Magnesium	2.6		5.00	7.45		mg/L		98	75 - 125	12	20
Potassium	2.1		7.00	9.55		mg/L		107	75 - 125	9	20
Sodium	6.2		5.00	11.0		mg/L		96	75 - 125	6	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-874054/4
Matrix: Water
Analysis Batch: 874054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			01/30/25 10:54	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			01/30/25 10:54	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			01/30/25 10:54	1

Lab Sample ID: LCS 680-874054/6
Matrix: Water
Analysis Batch: 874054

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3	250	245		mg/L		98	90 - 112

Lab Sample ID: LCSD 680-874054/31
Matrix: Water
Analysis Batch: 874054

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Total Alkalinity as CaCO3	250	245		mg/L		98	90 - 112	0	30

Lab Sample ID: 680-261187-C-2 DU
Matrix: Water
Analysis Batch: 874054

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Alkalinity as CaCO3	330		324		mg/L		2	30
Bicarbonate Alkalinity as CaCO3	330		324		mg/L		2	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

Eurofins Savannah

QC Sample Results

Client: Southern Company
 Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-2

Method: 2320B-2011 - Alkalinity, Total (Continued)

Lab Sample ID: MB 680-874056/4
Matrix: Water
Analysis Batch: 874056

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			01/30/25 16:51	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			01/30/25 16:51	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			01/30/25 16:51	1

Lab Sample ID: LCS 680-874056/6
Matrix: Water
Analysis Batch: 874056

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3	250	243		mg/L		97	90 - 112

Lab Sample ID: LCSD 680-874056/31
Matrix: Water
Analysis Batch: 874056

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3	250	268		mg/L		107	90 - 112	10	30

Lab Sample ID: 680-261240-4 DU
Matrix: Water
Analysis Batch: 874056

Client Sample ID: MCI-GWA-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30
Bicarbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	30

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-2

Metals

Prep Batch: 873752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261240-2	MCI-GWA-1B	Total Recoverable	Water	3005A	
680-261240-3	MCI-GWA-2B	Total Recoverable	Water	3005A	
680-261240-4	MCI-GWA-4	Total Recoverable	Water	3005A	
680-261240-6	MCI-GWA-7A	Total Recoverable	Water	3005A	
680-261240-7	MCI-GWC-2	Total Recoverable	Water	3005A	
680-261240-8	MCI-LF3-GWC-4A	Total Recoverable	Water	3005A	
680-261240-9	MCI-GWA-3A	Total Recoverable	Water	3005A	
680-261240-11	MCI-GWC-6A	Total Recoverable	Water	3005A	
680-261240-13	MCI-GWC-1A	Total Recoverable	Water	3005A	
MB 680-873752/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-873752/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-269845-K-8-B MS	Matrix Spike	Total Recoverable	Water	3005A	
400-269845-K-8-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 873753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261240-5	MCI-LF3-GWA-5	Total Recoverable	Water	3005A	
680-261240-10	MCI-GWC-5A	Total Recoverable	Water	3005A	
MB 680-873753/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-873753/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-261240-5 MS	MCI-LF3-GWA-5	Total Recoverable	Water	3005A	
680-261240-5 MSD	MCI-LF3-GWA-5	Total Recoverable	Water	3005A	

Analysis Batch: 873928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261240-2	MCI-GWA-1B	Total Recoverable	Water	6020B	873752
680-261240-3	MCI-GWA-2B	Total Recoverable	Water	6020B	873752
680-261240-4	MCI-GWA-4	Total Recoverable	Water	6020B	873752
680-261240-5	MCI-LF3-GWA-5	Total Recoverable	Water	6020B	873753
680-261240-6	MCI-GWA-7A	Total Recoverable	Water	6020B	873752
680-261240-7	MCI-GWC-2	Total Recoverable	Water	6020B	873752
680-261240-8	MCI-LF3-GWC-4A	Total Recoverable	Water	6020B	873752
680-261240-9	MCI-GWA-3A	Total Recoverable	Water	6020B	873752
680-261240-10	MCI-GWC-5A	Total Recoverable	Water	6020B	873753
680-261240-11	MCI-GWC-6A	Total Recoverable	Water	6020B	873752
680-261240-13	MCI-GWC-1A	Total Recoverable	Water	6020B	873752
MB 680-873752/1-A	Method Blank	Total Recoverable	Water	6020B	873752
MB 680-873753/1-A	Method Blank	Total Recoverable	Water	6020B	873753
LCS 680-873752/2-A	Lab Control Sample	Total Recoverable	Water	6020B	873752
LCS 680-873753/2-A	Lab Control Sample	Total Recoverable	Water	6020B	873753
400-269845-K-8-B MS	Matrix Spike	Total Recoverable	Water	6020B	873752
400-269845-K-8-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	873752
680-261240-5 MS	MCI-LF3-GWA-5	Total Recoverable	Water	6020B	873753
680-261240-5 MSD	MCI-LF3-GWA-5	Total Recoverable	Water	6020B	873753

General Chemistry

Analysis Batch: 874054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261240-2	MCI-GWA-1B	Total/NA	Water	2320B-2011	
680-261240-3	MCI-GWA-2B	Total/NA	Water	2320B-2011	

Eurofins Savannah

QC Association Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-2

General Chemistry (Continued)

Analysis Batch: 874054 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261240-7	MCI-GWC-2	Total/NA	Water	2320B-2011	
680-261240-8	MCI-LF3-GWC-4A	Total/NA	Water	2320B-2011	
680-261240-9	MCI-GWA-3A	Total/NA	Water	2320B-2011	
680-261240-10	MCI-GWC-5A	Total/NA	Water	2320B-2011	
MB 680-874054/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-874054/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-874054/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-261187-C-2 DU	Duplicate	Total/NA	Water	2320B-2011	

Analysis Batch: 874056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261240-4	MCI-GWA-4	Total/NA	Water	2320B-2011	
680-261240-5	MCI-LF3-GWA-5	Total/NA	Water	2320B-2011	
680-261240-6	MCI-GWA-7A	Total/NA	Water	2320B-2011	
680-261240-11	MCI-GWC-6A	Total/NA	Water	2320B-2011	
680-261240-13	MCI-GWC-1A	Total/NA	Water	2320B-2011	
MB 680-874056/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-874056/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-874056/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-261240-4 DU	MCI-GWA-4	Total/NA	Water	2320B-2011	

Lab Chronicle

Client: Southern Company
 Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-2

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-261240-2

Date Collected: 01/28/25 09:55

Matrix: Water

Date Received: 01/29/25 08:44

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	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 13:26	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2320B-2011		1			874054	01/30/25 15:08	PG	EET SAV
Instrument ID: MANTECH 2										

Client Sample ID: MCI-GWA-2B

Lab Sample ID: 680-261240-3

Date Collected: 01/28/25 11:05

Matrix: Water

Date Received: 01/29/25 08:44

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	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 13:44	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2320B-2011		1			874054	01/30/25 14:48	PG	EET SAV
Instrument ID: MANTECH 2										

Client Sample ID: MCI-GWA-4

Lab Sample ID: 680-261240-4

Date Collected: 01/28/25 11:40

Matrix: Water

Date Received: 01/29/25 08:44

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	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 13:57	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2320B-2011		1			874056	01/30/25 17:15	PG	EET SAV
Instrument ID: MANTECH 2										

Client Sample ID: MCI-LF3-GWA-5

Lab Sample ID: 680-261240-5

Date Collected: 01/28/25 10:30

Matrix: Water

Date Received: 01/29/25 08:44

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	873753	01/30/25 05:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 14:41	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2320B-2011		1			874056	01/30/25 17:27	PG	EET SAV
Instrument ID: MANTECH 2										

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-2

Client Sample ID: MCI-GWA-7A

Lab Sample ID: 680-261240-6

Date Collected: 01/27/25 16:35

Matrix: Water

Date Received: 01/29/25 08:44

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	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 13:23	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2320B-2011		1			874056	01/30/25 17:33	PG	EET SAV
Instrument ID: MANTECH 2										

Client Sample ID: MCI-GWC-2

Lab Sample ID: 680-261240-7

Date Collected: 01/28/25 12:50

Matrix: Water

Date Received: 01/29/25 08:44

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	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 13:54	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2320B-2011		1			874054	01/30/25 14:55	PG	EET SAV
Instrument ID: MANTECH 2										

Client Sample ID: MCI-LF3-GWC-4A

Lab Sample ID: 680-261240-8

Date Collected: 01/28/25 13:58

Matrix: Water

Date Received: 01/29/25 08:44

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	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 13:52	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2320B-2011		1			874054	01/30/25 15:02	PG	EET SAV
Instrument ID: MANTECH 2										

Client Sample ID: MCI-GWA-3A

Lab Sample ID: 680-261240-9

Date Collected: 01/28/25 14:40

Matrix: Water

Date Received: 01/29/25 08:44

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	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 14:05	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2320B-2011		1			874054	01/30/25 14:41	PG	EET SAV
Instrument ID: MANTECH 2										

Lab Chronicle

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-2

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-261240-10

Date Collected: 01/28/25 15:30

Matrix: Water

Date Received: 01/29/25 08:44

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	873753	01/30/25 05:56	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 14:51	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2320B-2011		1			874054	01/30/25 14:34	PG	EET SAV
Instrument ID: MANTECH 2										

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-261240-11

Date Collected: 01/28/25 15:50

Matrix: Water

Date Received: 01/29/25 08:44

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	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 14:10	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2320B-2011		1			874056	01/30/25 19:49	PG	EET SAV
Instrument ID: MANTECH 2										

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-261240-13

Date Collected: 01/28/25 16:25

Matrix: Water

Date Received: 01/29/25 08:44

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	873752	01/30/25 05:52	RR	EET SAV
Total Recoverable	Analysis	6020B		1			873928	01/30/25 13:47	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	2320B-2011		1			874056	01/31/25 12:48	PG	EET SAV
Instrument ID: MANTECH 2										

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 Landfill 3

Job ID: 680-261240-2

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-25
Georgia	State	E87052	06-30-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Method Summary

Client: Southern Company
Project/Site: Plant McIntosh Landfill 3

Job ID: 680-261240-2

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



Chain of Custody Record

Client Information					Sampler: <u>J. Basford, D. Johnson</u> ACC		Lab PM: Fuller, David		Carrier Tracking No(s):		COC No:											
Client Contact:					Phone: <u>770-594-5998</u>		E-Mail: <u>david.fuller@et.eurofinsus.com</u>				Page: <u>1 of 1</u>											
SCS Contacts																						
Company: <u>GA Power</u>					Analysis Requested							Job #:										
Address: <u>241 Ralph McGill Blvd SE</u>												Due Date Requested:		Preservation Codes:								
City: <u>Atlanta</u>					TAT Requested (days):		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)															
State, Zip: <u>GA, 30308</u>					Lab Project #: <u>68027732</u>				Other:													
Phone: <u>404-506-7116(Tel)</u>					PO #: <u>GPC82130-0002</u>						Task Code: MCI-CCR-ASSMT-2025S1 Special Instructions/Note: ALK + 3 Cations (Report Separately)											
Email: <u>SCS Contacts / ACC Contacts</u>					Project #: <u></u>																	
Project Name: <u>Plant McIntosh Landfill 3</u>					SSOW#: <u></u>																	
Site: <u>Georgia</u>																						
Sample Identification					Sample Date (mm/dd/yy)		Sample Time (hhmm)		Sample Type (C=comp, G=grab)		Matrix (WG=ground water, WS=surface water, WQ=quality control)		Field Filtered Sample (Yes or No)		Packaging (1=15L, 2=5L)		Total Number of Containers					
																					Preservation Code:	
MCI- <u>GWA-1 B</u>					<u>01/28/25</u>		<u>0955</u>		<u>G</u>		<u>WG</u>		<u>N</u>		<u>N</u>		<u>✓</u>		<u>✓</u>		<u>1</u>	
MCI- <u>GWA-2 B</u>					<u>01/28/25</u>		<u>1105</u>		<u>G</u>		<u>WG</u>		<u>N</u>		<u>N</u>		<u>✓</u>		<u>✓</u>		<u>1</u>	
MCI- <u>GWA-4</u>					<u>01/28/25</u>		<u>1140</u>		<u>G</u>		<u>WG</u>		<u>N</u>		<u>N</u>		<u>✓</u>		<u>✓</u>		<u>1</u>	
MCI- <u>LF3-GWA-5</u>					<u>01/28/25</u>		<u>1030</u>		<u>G</u>		<u>WG</u>		<u>N</u>		<u>N</u>		<u>✓</u>		<u>✓</u>		<u>1</u>	
MCI- <u>GWA-7A</u>					<u>01/27/25</u>		<u>1635</u>		<u>G</u>		<u>WG</u>		<u>N</u>		<u>N</u>		<u>✓</u>		<u>✓</u>		<u>1</u>	
MCI- <u>GWC-2</u>					<u>01/28/25</u>		<u>1250</u>		<u>G</u>		<u>WG</u>		<u>N</u>		<u>N</u>		<u>✓</u>		<u>✓</u>		<u>1</u>	
MCI- <u>LF3-GWC-4A</u>					<u>01/28/25</u>		<u>1358</u>		<u>G</u>		<u>WG</u>		<u>N</u>		<u>N</u>		<u>✓</u>		<u>✓</u>		<u>1</u>	
MCI- <u>GWA-3A</u>					<u>01/28/25</u>		<u>1440</u>		<u>G</u>		<u>WG</u>		<u>N</u>		<u>N</u>		<u>✓</u>		<u>✓</u>		<u>1</u>	
MCI- <u>GWC-5A</u>					<u>01/28/25</u>		<u>1530</u>		<u>G</u>		<u>WG</u>		<u>N</u>		<u>N</u>		<u>✓</u>		<u>✓</u>		<u>1</u>	
MCI- <u>GWC-6A</u>					<u>01/28/25</u>		<u>1550</u>		<u>G</u>		<u>WG</u>		<u>N</u>		<u>N</u>		<u>✓</u>		<u>✓</u>		<u>1</u>	
MCI- <u>GWC-1A</u>					<u>01/28/25</u>		<u>1625</u>		<u>G</u>		<u>WG</u>		<u>N</u>		<u>N</u>		<u>✓</u>		<u>✓</u>		<u>1</u>	
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: Additional Cations: magnesium, sodium, potassium																	
Empty Kit Relinquished by:					Date:		Time:		Method of Shipment:													
Relinquished by: <u>[Signature]</u>					Date/Time: <u>1/28/25 1700</u>		Company: <u>ACC</u>		Received by: <u>[Signature]</u>		Date/Time: <u>1/28/25 1700</u>		Company: <u>ACC</u>									
Relinquished by: <u>[Signature]</u>					Date/Time: <u>1/29/25 0844</u>		Company: <u>ACC</u>		Received by: <u>[Signature]</u>		Date/Time: <u>1/29/25 0844</u>		Company: <u></u>									
Relinquished by:					Date/Time:		Company:		Received by:		Date/Time:		Company:									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>3.4/3.4 4.5/4.5</u>															

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-261240-2

Login Number: 261240

List Source: Eurofins Savannah

List Number: 1

Creator: Munro, Caroline

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	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.



LEVEL 2A LABORATORY DATA VALIDATIONS

McIntosh Inactive Landfill No. 3

Annual Event

January 2025

Georgia Power Company – McIntosh Landfill 3

Quality Control Review of Analytical Data – January 2025

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 Landfill 3 (LF3) between January 27, 2025 and January 28, 2025. 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 permit-required state metals. Test methods included Inductively Coupled Plasma – Mass Spectrometry (US EPA Method 6020B), Determination of Inorganic Anions (US EPA Method 300.0), and Solids in Water (Standard Methods 2540C).

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)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². 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.

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:

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.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh LF3 sampled between January 27, 2025 and January 28, 2025 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

¹US 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

²US 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 Inactive Landfill No. 3
 2025 Annual Groundwater Monitoring and Corrective Action Report

TABLE 1
 Sample Summary Table – January 2025
 Georgia Power Company – McIntosh LF3

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses		
						Metals (6020B)	Anions (300.0)	TDS (SM 2540C)
261240-1	MCI-LF3-FD-05	01/28/25	680-261240-1	WG	FD (MCI-GWC-2)	X	X	X
261240-1	MCI-GWA-1B	01/28/25	680-261240-2	WG		X	X	X
261240-1	MCI-GWA-2B	01/28/25	680-261240-3	WG		X	X	X
261240-1	MCI-GWA-4	01/28/25	680-261240-4	WG		X	X	X
261240-1	MCI-LF3-GWA-5	01/28/25	680-261240-5	WG		X	X	X
261240-1	MCI-GWA-7A	01/27/25	680-261240-6	WG		X	X	X
261240-1	MCI-GWC-2	01/28/25	680-261240-7	WG		X	X	X
261240-1	MCI-LF3-GWC-4A	01/28/25	680-261240-8	WG		X	X	X
261240-1	MCI-GWC-3A	01/28/25	680-261240-9	WG		X	X	X
261240-1	MCI-GWC-5A	01/28/25	680-261240-10	WG		X	X	X
261240-1	MCI-GWC-6A	01/28/25	680-261240-11	WG		X	X	X
261240-1	MCI-LF3-FD-06	01/28/25	680-261240-12	WG	FD (MCI-GWC-6A)	X	X	X
261240-1	MCI-GWC-1A	01/28/25	680-261240-13	WG		X	X	X
261240-1	MCI-LF3-FB-09	01/28/25	680-261240-14	WQ	FB	X	X	X
261240-1	MCI-LF3-FB-10	01/28/25	680-261240-15	WQ	FB	X	X	X
261240-1	MCI-LF3-EB-11	01/28/25	680-261240-16	WQ	EB	X	X	X
261240-1	MCI-LF3-EB-12	01/28/25	680-261240-17	WQ	EB	X	X	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

LEVEL 2A LABORATORY DATA VALIDATIONS

McIntosh Inactive Landfill No. 3

Geochemical Parameters Event

January 2025

Georgia Power Company – McIntosh Landfill 3

Quality Control Review of Analytical Data – January 2025

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 Landfill 3 (LF3) between January 27, 2025 and January 28, 2025. 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 geochemical parameters. Test methods included Inductively Coupled Plasma – Mass Spectrometry (US EPA Method 6020B) and Alkalinity in Water (Standard Methods 2320B).

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)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². 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 not applicable to this sampling event.

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 LF3 sampled between January 27, 2025 and January 28, 2025 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

¹US 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

²US 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 Inactive Landfill No. 3
 2025 Annual Groundwater Monitoring and Corrective Action Report

TABLE 1
 Sample Summary Table – January 2025
 Georgia Power Company – McIntosh LF3

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses	
						Metals (6020B)	Alkalinity (SM 2320B)
261240-2	MCI-GWA-1B	01/28/25	680-261240-2	WG		X	X
261240-2	MCI-GWA-2B	01/28/25	680-261240-3	WG		X	X
261240-2	MCI-GWA-4	01/28/25	680-261240-4	WG		X	X
261240-2	MCI-LF3-GWA-5	01/28/25	680-261240-5	WG		X	X
261240-2	MCI-GWA-7A	01/27/25	680-261240-6	WG		X	X
261240-2	MCI-GWC-2	01/28/25	680-261240-7	WG		X	X
261240-2	MCI-LF3-GWC-4A	01/28/25	680-261240-8	WG		X	X
261240-2	MCI-GWA-3A	01/28/25	680-261240-9	WG		X	X
261240-2	MCI-GWC-5A	01/28/25	680-261240-10	WG		X	X
261240-2	MCI-GWC-6A	01/28/25	680-261240-11	WG		X	X
261240-2	MCI-GWC-1A	01/28/25	680-261240-13	WG		X	X

Abbreviations:
 WG – Groundwater
 QC – Quality Control
 SDG – Sample Delivery Group

Low-Flow Test Report:

Test Date / Time: 1/28/2025 9:25:06 AM

Project: Plant McIntosh LF3

Operator Name: J. Berisford

Location Name: GWA-1B Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 48.53 ft Total Depth: 58.53 ft Initial Depth to Water: 18.87 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 53 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
---	--	--

Test Notes:

Sunny, sample time-0955

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
1/28/2025 9:25 AM	00:00	5.50 pH	15.21 °C	39.60 µS/cm	0.51 mg/L	1.19 NTU	142.2 mV	18.87 ft	250.00 ml/min
1/28/2025 9:30 AM	05:00	5.39 pH	15.74 °C	38.04 µS/cm	0.27 mg/L	0.45 NTU	123.5 mV	19.10 ft	250.00 ml/min
1/28/2025 9:35 AM	10:00	5.38 pH	16.16 °C	37.58 µS/cm	0.21 mg/L	0.40 NTU	83.8 mV	19.10 ft	250.00 ml/min
1/28/2025 9:40 AM	15:00	5.40 pH	16.41 °C	37.34 µS/cm	0.17 mg/L	0.24 NTU	70.5 mV	19.10 ft	250.00 ml/min
1/28/2025 9:45 AM	20:00	5.46 pH	16.30 °C	37.89 µS/cm	0.14 mg/L	0.34 NTU	61.7 mV	19.10 ft	250.00 ml/min
1/28/2025 9:50 AM	25:00	5.48 pH	17.10 °C	38.15 µS/cm	0.12 mg/L	0.29 NTU	58.4 mV	19.10 ft	250.00 ml/min
1/28/2025 9:55 AM	30:00	5.50 pH	16.85 °C	38.70 µS/cm	0.11 mg/L	0.54 NTU	55.0 mV	19.10 ft	250.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 1/28/2025 10:30:07 AM

Project: Plant McIntosh LF3

Operator Name: C.Klamke

Location Name: GWA-2B Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.78 ft Total Depth: 51.78 ft Initial Depth to Water: 15.82 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 47 ft Estimated Total Volume Pumped: 4.375 liter Flow Cell Volume: 90 ml Final Flow Rate: 125 ml/min Final Draw Down: 18 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
---	---	--

Test Notes:

Sunny, Sample time-1105

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
1/28/2025 10:30 AM	00:00	5.86 pH	19.04 °C	0.00 µS/cm	9.30 mg/L	0.79 NTU	109.7 mV	15.82 ft	125.00 ml/min
1/28/2025 10:35 AM	05:00	5.45 pH	16.20 °C	131.82 µS/cm	0.51 mg/L	0.80 NTU	14.9 mV	16.60 ft	125.00 ml/min
1/28/2025 10:40 AM	10:00	5.43 pH	16.17 °C	134.13 µS/cm	0.30 mg/L	1.35 NTU	25.8 mV	17.00 ft	125.00 ml/min
1/28/2025 10:45 AM	15:00	5.29 pH	16.50 °C	139.31 µS/cm	0.22 mg/L	0.85 NTU	27.0 mV	17.20 ft	125.00 ml/min
1/28/2025 10:50 AM	20:00	5.15 pH	16.46 °C	146.99 µS/cm	0.23 mg/L	2.02 NTU	27.7 mV	17.30 ft	125.00 ml/min
1/28/2025 10:55 AM	25:00	5.06 pH	16.52 °C	150.26 µS/cm	0.23 mg/L	1.08 NTU	29.5 mV	17.30 ft	125.00 ml/min
1/28/2025 11:00 AM	30:00	5.03 pH	16.44 °C	151.37 µS/cm	0.20 mg/L	1.17 NTU	29.4 mV	17.40 ft	125.00 ml/min
1/28/2025 11:05 AM	35:00	5.00 pH	16.48 °C	150.93 µS/cm	0.19 mg/L	1.12 NTU	28.7 mV	17.40 ft	125.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 1/28/2025 11:40:38 AM

Project: Plant McIntosh LF3

Operator Name: C.Klamke

<p>Location Name: GWA-3A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.88 ft Total Depth: 33.88 ft Initial Depth to Water: 11.34 ft</p>	<p>Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 29 ft Estimated Total Volume Pumped: 27 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 37 in</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 989619</p>
--	---	---

Test Notes:

Sunny, sample time-1440

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
1/28/2025 11:40 AM	00:00	5.47 pH	16.53 °C	0.00 µS/cm	9.99 mg/L	5.59 NTU	105.2 mV	11.34 ft	150.00 ml/min
1/28/2025 11:45 AM	05:00	4.56 pH	17.02 °C	102.20 µS/cm	4.19 mg/L	4.07 NTU	156.4 mV	12.20 ft	150.00 ml/min
1/28/2025 11:50 AM	10:00	4.55 pH	17.24 °C	101.03 µS/cm	3.96 mg/L	2.75 NTU	171.1 mV	12.50 ft	150.00 ml/min
1/28/2025 11:55 AM	15:00	4.55 pH	17.00 °C	101.45 µS/cm	3.88 mg/L	2.39 NTU	202.7 mV	12.70 ft	150.00 ml/min
1/28/2025 12:00 PM	20:00	4.55 pH	17.47 °C	100.97 µS/cm	3.81 mg/L	2.63 NTU	172.9 mV	12.90 ft	150.00 ml/min
1/28/2025 12:05 PM	25:00	4.53 pH	17.45 °C	101.82 µS/cm	3.70 mg/L	3.09 NTU	172.1 mV	13.20 ft	150.00 ml/min
1/28/2025 12:10 PM	30:00	4.52 pH	17.04 °C	102.41 µS/cm	3.70 mg/L	3.04 NTU	195.8 mV	13.30 ft	150.00 ml/min
1/28/2025 12:15 PM	35:00	4.52 pH	17.23 °C	103.60 µS/cm	3.45 mg/L	3.07 NTU	169.0 mV	13.50 ft	150.00 ml/min
1/28/2025 12:20 PM	40:00	4.50 pH	17.36 °C	104.25 µS/cm	2.72 mg/L	4.89 NTU	189.0 mV	13.70 ft	150.00 ml/min
1/28/2025 12:25 PM	45:00	4.51 pH	17.35 °C	104.95 µS/cm	2.35 mg/L	6.21 NTU	187.8 mV	13.90 ft	150.00 ml/min
1/28/2025 12:30 PM	50:00	4.52 pH	17.22 °C	105.16 µS/cm	2.14 mg/L	5.46 NTU	185.1 mV	14.00 ft	150.00 ml/min
1/28/2025 12:35 PM	55:00	4.49 pH	17.04 °C	106.90 µS/cm	1.49 mg/L	7.09 NTU	183.6 mV	14.00 ft	150.00 ml/min
1/28/2025 12:40 PM	01:00:00	4.50 pH	17.22 °C	105.93 µS/cm	1.75 mg/L	6.43 NTU	182.3 mV	14.00 ft	150.00 ml/min
1/28/2025 12:45 PM	01:05:00	4.46 pH	17.17 °C	106.37 µS/cm	1.72 mg/L	6.35 NTU	159.0 mV	14.10 ft	150.00 ml/min
1/28/2025 12:50 PM	01:10:00	4.48 pH	17.03 °C	106.44 µS/cm	1.45 mg/L	7.48 NTU	180.4 mV	14.10 ft	150.00 ml/min

1/28/2025 12:55 PM	01:15:00	4.47 pH	16.96 °C	106.82 µS/cm	1.58 mg/L	6.78 NTU	154.8 mV	14.20 ft	150.00 ml/min
1/28/2025 1:00 PM	01:20:00	4.49 pH	16.85 °C	107.12 µS/cm	1.36 mg/L	7.00 NTU	174.7 mV	14.20 ft	150.00 ml/min
1/28/2025 1:05 PM	01:25:00	4.47 pH	16.69 °C	106.28 µS/cm	1.57 mg/L	5.75 NTU	177.0 mV	14.20 ft	150.00 ml/min
1/28/2025 1:10 PM	01:30:00	4.49 pH	16.66 °C	106.85 µS/cm	1.39 mg/L	5.64 NTU	176.5 mV	14.20 ft	150.00 ml/min
1/28/2025 1:15 PM	01:35:00	4.49 pH	16.84 °C	106.48 µS/cm	1.45 mg/L	6.13 NTU	153.6 mV	14.20 ft	150.00 ml/min
1/28/2025 1:20 PM	01:40:00	4.49 pH	17.03 °C	106.87 µS/cm	1.23 mg/L	6.03 NTU	173.3 mV	14.20 ft	150.00 ml/min
1/28/2025 1:25 PM	01:45:00	4.52 pH	17.08 °C	107.09 µS/cm	1.15 mg/L	7.05 NTU	147.0 mV	14.20 ft	150.00 ml/min
1/28/2025 1:30 PM	01:50:00	4.51 pH	17.26 °C	107.15 µS/cm	1.05 mg/L	6.97 NTU	167.8 mV	14.30 ft	150.00 ml/min
1/28/2025 1:35 PM	01:55:00	4.53 pH	17.56 °C	106.53 µS/cm	0.86 mg/L	6.33 NTU	143.0 mV	14.30 ft	150.00 ml/min
1/28/2025 1:40 PM	02:00:00	4.52 pH	17.36 °C	106.65 µS/cm	0.83 mg/L	6.82 NTU	165.9 mV	14.30 ft	150.00 ml/min
1/28/2025 1:45 PM	02:05:00	4.52 pH	17.22 °C	107.57 µS/cm	0.68 mg/L	5.76 NTU	164.9 mV	14.30 ft	150.00 ml/min
1/28/2025 1:50 PM	02:10:00	4.52 pH	16.95 °C	107.81 µS/cm	0.60 mg/L	5.53 NTU	166.0 mV	14.40 ft	150.00 ml/min
1/28/2025 1:55 PM	02:15:00	4.53 pH	17.40 °C	107.57 µS/cm	0.52 mg/L	6.46 NTU	166.8 mV	14.40 ft	150.00 ml/min
1/28/2025 2:00 PM	02:20:00	4.53 pH	17.46 °C	107.80 µS/cm	0.39 mg/L	5.86 NTU	140.6 mV	14.40 ft	150.00 ml/min
1/28/2025 2:05 PM	02:25:00	4.53 pH	17.35 °C	107.73 µS/cm	0.38 mg/L	5.30 NTU	162.8 mV	14.40 ft	150.00 ml/min
1/28/2025 2:10 PM	02:30:00	4.53 pH	17.58 °C	107.77 µS/cm	0.33 mg/L	5.42 NTU	138.1 mV	14.40 ft	150.00 ml/min
1/28/2025 2:15 PM	02:35:00	4.53 pH	18.11 °C	106.96 µS/cm	0.29 mg/L	5.46 NTU	162.6 mV	14.50 ft	150.00 ml/min
1/28/2025 2:20 PM	02:40:00	4.52 pH	18.33 °C	106.87 µS/cm	0.27 mg/L	6.16 NTU	166.9 mV	14.50 ft	150.00 ml/min
1/28/2025 2:25 PM	02:45:00	4.52 pH	18.71 °C	107.23 µS/cm	0.24 mg/L	5.27 NTU	141.1 mV	14.50 ft	150.00 ml/min
1/28/2025 2:30 PM	02:50:00	4.52 pH	18.65 °C	107.03 µS/cm	0.23 mg/L	5.57 NTU	165.7 mV	14.50 ft	150.00 ml/min
1/28/2025 2:35 PM	02:55:00	4.52 pH	18.66 °C	106.83 µS/cm	0.22 mg/L	6.02 NTU	142.9 mV	14.50 ft	150.00 ml/min
1/28/2025 2:40 PM	03:00:00	4.52 pH	18.81 °C	107.04 µS/cm	0.20 mg/L	5.51 NTU	140.0 mV	14.50 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 1/28/2025 11:10:19 AM

Project: Plant McIntosh LF3

Operator Name: D. Johnson

Location Name: GWA-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 24.16 ft Total Depth: 29.16 ft Initial Depth to Water: 11.26 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 26.7 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 34.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 966105
---	---	--

Test Notes:

Sample time 1140. Sunny, 55 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/28/2025 11:10 AM	00:00	4.94 pH	13.76 °C	48.53 µS/cm	9.25 mg/L	1.65 NTU	186.2 mV	11.26 ft	100.00 ml/min
1/28/2025 11:15 AM	05:00	4.88 pH	14.31 °C	49.19 µS/cm	5.77 mg/L	1.49 NTU	131.7 mV	12.31 ft	100.00 ml/min
1/28/2025 11:20 AM	10:00	4.89 pH	14.75 °C	48.51 µS/cm	5.51 mg/L	0.71 NTU	116.7 mV	12.87 ft	100.00 ml/min
1/28/2025 11:25 AM	15:00	4.89 pH	14.57 °C	48.50 µS/cm	5.46 mg/L	0.60 NTU	111.9 mV	13.57 ft	100.00 ml/min
1/28/2025 11:30 AM	20:00	4.88 pH	14.48 °C	48.49 µS/cm	5.43 mg/L	0.57 NTU	109.2 mV	13.93 ft	100.00 ml/min
1/28/2025 11:35 AM	25:00	4.88 pH	14.71 °C	48.45 µS/cm	5.40 mg/L	0.83 NTU	108.8 mV	14.02 ft	100.00 ml/min
1/28/2025 11:40 AM	30:00	4.88 pH	14.94 °C	48.44 µS/cm	5.28 mg/L	0.52 NTU	108.4 mV	14.11 ft	100.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 1/27/2025 3:50:11 PM

Project: Plant McIntosh LF3

Operator Name: D. Johnson

Location Name: GWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23 ft Total Depth: 33 ft Initial Depth to Water: 10.33 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 18.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 212.28 in	Instrument Used: Aqua TROLL 400 Serial Number: 966105
--	---	--

Test Notes:

Well purged dry 1705 1-27-2025. Cloudy, 45 degrees F. Allow for overnight recharge. Log 1 of 2.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 5	
1/27/2025 3:50 PM	00:00	4.67 pH	16.16 °C	82.04 µS/cm	6.20 mg/L	9.11 NTU	191.2 mV	15.25 ft	250.00 ml/min
1/27/2025 3:55 PM	05:00	4.61 pH	17.41 °C	80.29 µS/cm	5.39 mg/L	7.81 NTU	224.5 mV	16.42 ft	250.00 ml/min
1/27/2025 4:00 PM	10:00	4.54 pH	17.67 °C	80.77 µS/cm	4.79 mg/L	8.31 NTU	172.0 mV	17.91 ft	250.00 ml/min
1/27/2025 4:05 PM	15:00	4.55 pH	17.73 °C	80.82 µS/cm	4.61 mg/L	9.00 NTU	162.8 mV	19.03 ft	250.00 ml/min
1/27/2025 4:10 PM	20:00	4.55 pH	17.81 °C	81.43 µS/cm	4.42 mg/L	12.50 NTU	155.7 mV	20.32 ft	250.00 ml/min
1/27/2025 4:15 PM	25:00	4.53 pH	17.81 °C	82.71 µS/cm	3.85 mg/L	12.40 NTU	149.3 mV	20.70 ft	250.00 ml/min
1/27/2025 4:20 PM	30:00	4.52 pH	17.89 °C	82.01 µS/cm	3.69 mg/L	15.00 NTU	146.3 mV	21.30 ft	250.00 ml/min
1/27/2025 4:25 PM	35:00	4.54 pH	18.01 °C	81.66 µS/cm	3.69 mg/L	14.70 NTU	142.7 mV	22.17 ft	250.00 ml/min
1/27/2025 4:30 PM	40:00	4.56 pH	18.02 °C	81.81 µS/cm	3.51 mg/L	20.70 NTU	139.1 mV	23.01 ft	250.00 ml/min
1/27/2025 4:35 PM	45:00	4.56 pH	18.03 °C	81.90 µS/cm	3.31 mg/L	24.60 NTU	136.1 mV	23.72 ft	250.00 ml/min
1/27/2025 4:40 PM	50:00	4.56 pH	17.90 °C	82.31 µS/cm	3.17 mg/L	22.30 NTU	133.4 mV	24.63 ft	250.00 ml/min
1/27/2025 4:45 PM	55:00	4.57 pH	17.93 °C	82.43 µS/cm	2.76 mg/L	21.80 NTU	184.1 mV	25.45 ft	250.00 ml/min
1/27/2025 4:50 PM	01:00:00	4.57 pH	17.90 °C	83.44 µS/cm	2.27 mg/L	28.10 NTU	129.2 mV	25.73 ft	250.00 ml/min
1/27/2025 4:55 PM	01:05:00	4.57 pH	17.74 °C	87.34 µS/cm	1.99 mg/L	35.00 NTU	123.2 mV	26.32 ft	250.00 ml/min
1/27/2025 5:00 PM	01:10:00	4.57 pH	17.72 °C	91.64 µS/cm	1.52 mg/L	54.20 NTU	164.0 mV	27.12 ft	250.00 ml/min

1/27/2025 5:05 PM	01:15:00	4.91 pH	17.67 °C	92.98 µS/cm	1.39 mg/L	500.00 NTU	82.7 mV	28.02 ft	250.00 ml/min
----------------------	----------	---------	----------	-------------	-----------	------------	---------	----------	---------------

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 1/28/2025 9:15:43 AM

Project: Plant McIntosh LF3

Operator Name: D. Johnson

Location Name: GWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23 ft Total Depth: 33 ft Initial Depth to Water: 10.21 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 3.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 50 ml/min Final Draw Down: 48.72 in	Instrument Used: Aqua TROLL 400 Serial Number: 966105
--	--	--

Test Notes:

Sample time 1030. Sunny, 51 degrees F.

Log 2 of 2. Well purged dry 1-27-2025. Allowed for overnight recharge.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/28/2025 9:15 AM	00:00	5.92 pH	9.75 °C	118.96 µS/cm	9.97 mg/L	23.00 NTU	119.5 mV	10.21 ft	50.00 ml/min
1/28/2025 9:20 AM	05:00	4.49 pH	12.32 °C	97.01 µS/cm	6.65 mg/L	13.50 NTU	149.0 mV	11.01 ft	50.00 ml/min
1/28/2025 9:25 AM	10:00	4.46 pH	13.22 °C	90.37 µS/cm	6.22 mg/L	13.00 NTU	147.0 mV	11.62 ft	50.00 ml/min
1/28/2025 9:30 AM	15:00	4.47 pH	13.67 °C	89.37 µS/cm	6.23 mg/L	13.70 NTU	139.9 mV	11.81 ft	50.00 ml/min
1/28/2025 9:35 AM	20:00	4.48 pH	13.94 °C	88.39 µS/cm	6.18 mg/L	11.90 NTU	134.7 mV	12.03 ft	50.00 ml/min
1/28/2025 9:40 AM	25:00	4.48 pH	14.15 °C	89.34 µS/cm	6.15 mg/L	11.50 NTU	132.5 mV	12.37 ft	50.00 ml/min
1/28/2025 9:45 AM	30:00	4.49 pH	14.99 °C	88.77 µS/cm	6.14 mg/L	12.10 NTU	131.9 mV	12.62 ft	50.00 ml/min
1/28/2025 9:50 AM	35:00	4.49 pH	15.30 °C	87.80 µS/cm	6.09 mg/L	11.40 NTU	130.3 mV	12.97 ft	50.00 ml/min
1/28/2025 9:55 AM	40:00	4.50 pH	15.31 °C	88.06 µS/cm	6.04 mg/L	11.30 NTU	128.5 mV	13.10 ft	50.00 ml/min
1/28/2025 10:00 AM	45:00	4.50 pH	15.93 °C	87.97 µS/cm	6.07 mg/L	11.20 NTU	128.5 mV	13.32 ft	50.00 ml/min
1/28/2025 10:05 AM	50:00	4.50 pH	15.47 °C	87.78 µS/cm	5.90 mg/L	11.10 NTU	127.6 mV	13.47 ft	50.00 ml/min
1/28/2025 10:10 AM	55:00	4.50 pH	15.26 °C	88.24 µS/cm	5.83 mg/L	10.90 NTU	126.7 mV	13.81 ft	50.00 ml/min
1/28/2025 10:15 AM	01:00:00	4.50 pH	14.77 °C	88.44 µS/cm	5.74 mg/L	10.80 NTU	125.5 mV	14.02 ft	50.00 ml/min
1/28/2025 10:20 AM	01:05:00	4.50 pH	14.71 °C	89.41 µS/cm	5.74 mg/L	10.50 NTU	125.0 mV	14.17 ft	50.00 ml/min

1/28/2025 10:25 AM	01:10:00	4.49 pH	14.69 °C	89.62 µS/cm	5.69 mg/L	10.40 NTU	124.7 mV	14.23 ft	50.00 ml/min
1/28/2025 10:30 AM	01:15:00	4.50 pH	15.11 °C	89.21 µS/cm	5.59 mg/L	9.94 NTU	124.4 mV	14.27 ft	50.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 1/27/2025 3:50:08 PM

Project: Plant McIntosh LF3

Operator Name: J. Berisford

Location Name: GWA-7A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 36.94 ft Total Depth: 46.94 ft Initial Depth to Water: 19.53 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 6.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 14 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
---	--	--

Test Notes:

Cloudy, sample time -1635

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
1/27/2025 3:50 PM	00:00	5.42 pH	18.56 °C	122.64 µS/cm	1.23 mg/L	1.71 NTU	36.1 mV	19.53 ft	150.00 ml/min
1/27/2025 3:55 PM	05:00	5.45 pH	17.62 °C	124.11 µS/cm	0.56 mg/L	1.18 NTU	-12.3 mV	20.50 ft	150.00 ml/min
1/27/2025 4:00 PM	10:00	5.47 pH	17.72 °C	123.95 µS/cm	0.26 mg/L	1.66 NTU	-24.5 mV	20.60 ft	150.00 ml/min
1/27/2025 4:05 PM	15:00	5.46 pH	17.75 °C	122.65 µS/cm	0.43 mg/L	1.20 NTU	-29.5 mV	20.60 ft	150.00 ml/min
1/27/2025 4:10 PM	20:00	5.45 pH	19.00 °C	120.81 µS/cm	0.32 mg/L	0.76 NTU	-14.0 mV	20.70 ft	150.00 ml/min
1/27/2025 4:15 PM	25:00	5.43 pH	18.56 °C	124.41 µS/cm	0.27 mg/L	0.67 NTU	-11.0 mV	20.70 ft	150.00 ml/min
1/27/2025 4:20 PM	30:00	5.34 pH	17.84 °C	136.99 µS/cm	0.23 mg/L	0.87 NTU	-17.5 mV	20.70 ft	150.00 ml/min
1/27/2025 4:25 PM	35:00	5.19 pH	19.65 °C	147.29 µS/cm	0.23 mg/L	0.95 NTU	10.4 mV	20.70 ft	150.00 ml/min
1/27/2025 4:30 PM	40:00	5.17 pH	20.13 °C	148.50 µS/cm	0.22 mg/L	0.85 NTU	9.2 mV	20.70 ft	150.00 ml/min
1/27/2025 4:35 PM	45:00	5.18 pH	19.76 °C	150.61 µS/cm	0.25 mg/L	0.79 NTU	5.7 mV	20.70 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 1/28/2025 4:00:09 PM

Project: Plant McIntosh LF3

Operator Name: D. Johnson

Location Name: GWC-1A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 37.37 ft Total Depth: 47.37 ft Initial Depth to Water: 17.06 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 42 ft Estimated Total Volume Pumped: 3.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 5.4 in	Instrument Used: Aqua TROLL 400 Serial Number: 966105
---	---	--

Test Notes:

Sample time 1625. Sunny, 62 degrees F.

FB-10 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/28/2025 4:00 PM	00:00	4.73 pH	17.05 °C	83.60 µS/cm	7.14 mg/L	1.66 NTU	155.0 mV	17.06 ft	150.00 ml/min
1/28/2025 4:05 PM	05:00	4.46 pH	17.35 °C	92.09 µS/cm	1.25 mg/L	0.86 NTU	128.2 mV	17.47 ft	150.00 ml/min
1/28/2025 4:10 PM	10:00	4.45 pH	17.81 °C	92.69 µS/cm	0.77 mg/L	0.83 NTU	122.4 mV	17.49 ft	150.00 ml/min
1/28/2025 4:15 PM	15:00	4.45 pH	17.98 °C	92.52 µS/cm	0.64 mg/L	0.59 NTU	120.2 mV	17.50 ft	150.00 ml/min
1/28/2025 4:20 PM	20:00	4.46 pH	18.07 °C	92.22 µS/cm	0.53 mg/L	0.69 NTU	123.4 mV	17.51 ft	150.00 ml/min
1/28/2025 4:25 PM	25:00	4.46 pH	18.11 °C	91.94 µS/cm	0.43 mg/L	0.66 NTU	120.5 mV	17.51 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 1/28/2025 12:25:04 PM

Project: Plant McIntosh LF3

Operator Name: D. Johnson

Location Name: GWC-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 9.3 ft Top of Screen: 27.49 ft Total Depth: 36.79 ft Initial Depth to Water: 14.66 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 32 ft Estimated Total Volume Pumped: 5 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 5 in	Instrument Used: Aqua TROLL 400 Serial Number: 966105
---	--	--

Test Notes:

Sample time 1250. Sunny, 59 degrees F. FD-05 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/28/2025 12:25 PM	00:00	5.17 pH	17.00 °C	59.79 µS/cm	4.48 mg/L	1.13 NTU	169.2 mV	14.66 ft	200.00 ml/min
1/28/2025 12:30 PM	05:00	5.11 pH	17.61 °C	57.85 µS/cm	0.88 mg/L	0.62 NTU	107.7 mV	14.81 ft	200.00 ml/min
1/28/2025 12:35 PM	10:00	5.07 pH	18.16 °C	57.44 µS/cm	0.36 mg/L	0.38 NTU	92.3 mV	14.86 ft	200.00 ml/min
1/28/2025 12:40 PM	15:00	5.04 pH	18.84 °C	56.56 µS/cm	0.27 mg/L	0.31 NTU	84.7 mV	14.89 ft	200.00 ml/min
1/28/2025 12:45 PM	20:00	5.01 pH	18.70 °C	55.92 µS/cm	0.24 mg/L	0.25 NTU	82.4 mV	14.90 ft	200.00 ml/min
1/28/2025 12:50 PM	25:00	5.01 pH	19.10 °C	55.60 µS/cm	0.22 mg/L	0.20 NTU	82.0 mV	14.91 ft	200.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 1/28/2025 1:33:17 PM

Project: Plant McIntosh LF3

Operator Name: D. Johnson

Location Name: GWC-4A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 26.96 ft Total Depth: 36.96 ft Initial Depth to Water: 17.04 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 32 ft Estimated Total Volume Pumped: 3.75 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 6.12 in	Instrument Used: Aqua TROLL 400 Serial Number: 966105
---	--	--

Test Notes:

Sample time 1358. Sunny, 61 degrees F.

EB-11 here on peri tubing.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/28/2025 1:33 PM	00:00	4.81 pH	20.65 °C	30.38 µS/cm	5.81 mg/L	0.92 NTU	177.2 mV	17.04 ft	150.00 ml/min
1/28/2025 1:38 PM	05:00	4.66 pH	21.46 °C	33.14 µS/cm	3.53 mg/L	2.09 NTU	148.3 mV	17.48 ft	150.00 ml/min
1/28/2025 1:43 PM	10:00	4.62 pH	21.35 °C	63.03 µS/cm	1.54 mg/L	1.68 NTU	143.1 mV	17.52 ft	150.00 ml/min
1/28/2025 1:48 PM	15:00	4.68 pH	21.77 °C	75.81 µS/cm	0.80 mg/L	1.04 NTU	159.8 mV	17.53 ft	150.00 ml/min
1/28/2025 1:53 PM	20:00	4.68 pH	21.70 °C	77.77 µS/cm	0.57 mg/L	0.52 NTU	155.8 mV	17.54 ft	150.00 ml/min
1/28/2025 1:58 PM	25:00	4.69 pH	22.09 °C	77.27 µS/cm	0.48 mg/L	0.48 NTU	153.2 mV	17.55 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 1/28/2025 2:50:20 PM

Project: Plant McIntosh LF3

Operator Name: D. Johnson

Location Name: GWC-5A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.6 ft Total Depth: 42.6 ft Initial Depth to Water: 18.71 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 966105
---	--	--

Test Notes:

Sample time 1530. Sunny, 62 degrees F.

FB-09 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.3	
1/28/2025 2:50 PM	00:00	4.75 pH	18.47 °C	50.01 µS/cm	3.07 mg/L	1.08 NTU	173.8 mV	18.71 ft	150.00 ml/min
1/28/2025 2:55 PM	05:00	4.69 pH	18.24 °C	50.50 µS/cm	0.91 mg/L	0.91 NTU	123.1 mV	18.83 ft	150.00 ml/min
1/28/2025 3:00 PM	10:00	4.69 pH	18.25 °C	50.65 µS/cm	0.71 mg/L	0.96 NTU	130.3 mV	18.94 ft	150.00 ml/min
1/28/2025 3:05 PM	15:00	4.68 pH	18.30 °C	50.61 µS/cm	0.57 mg/L	0.92 NTU	119.3 mV	18.96 ft	150.00 ml/min
1/28/2025 3:10 PM	20:00	4.68 pH	18.37 °C	50.60 µS/cm	0.46 mg/L	0.72 NTU	82.1 mV	18.96 ft	150.00 ml/min
1/28/2025 3:15 PM	25:00	4.69 pH	18.39 °C	50.60 µS/cm	0.40 mg/L	0.65 NTU	98.9 mV	18.96 ft	150.00 ml/min
1/28/2025 3:20 PM	30:00	4.69 pH	18.45 °C	50.47 µS/cm	0.35 mg/L	0.52 NTU	73.5 mV	18.96 ft	150.00 ml/min
1/28/2025 3:25 PM	35:00	4.70 pH	18.43 °C	50.43 µS/cm	0.31 mg/L	0.36 NTU	91.6 mV	18.96 ft	150.00 ml/min
1/28/2025 3:30 PM	40:00	4.69 pH	18.46 °C	50.60 µS/cm	0.29 mg/L	0.32 NTU	70.7 mV	18.96 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 1/28/2025 3:20:18 PM

Project: Plant McIntosh LF3

Operator Name: J. Berisford

Location Name: GWC-6A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.43 ft Total Depth: 42.43 ft Initial Depth to Water: 19.28 ft	Pump Type: Peristaltic Pump Tubing Type: Poly Tubing Inner Diameter: 0.17 in Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 9.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 989619
---	--	--

Test Notes:

Sunny, sample time-1550, FD-06 here

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 3	+/- 5 %	+/- 10 %	+/- 10	+/- 25	+/- 0.5	
1/28/2025 3:20 PM	00:00	6.14 pH	18.62 °C	58.41 µS/cm	0.92 mg/L	3.29 NTU	123.3 mV	19.28 ft	200.00 ml/min
1/28/2025 3:25 PM	05:00	5.26 pH	17.98 °C	57.20 µS/cm	0.22 mg/L	2.16 NTU	122.9 mV	20.00 ft	200.00 ml/min
1/28/2025 3:30 PM	10:00	5.24 pH	17.93 °C	56.79 µS/cm	0.15 mg/L	2.33 NTU	88.7 mV	20.10 ft	200.00 ml/min
1/28/2025 3:35 PM	15:00	5.23 pH	17.80 °C	56.50 µS/cm	0.13 mg/L	1.03 NTU	78.4 mV	20.10 ft	200.00 ml/min
1/28/2025 3:40 PM	20:00	5.24 pH	17.77 °C	56.02 µS/cm	0.11 mg/L	0.95 NTU	72.4 mV	20.10 ft	200.00 ml/min
1/28/2025 3:45 PM	25:00	5.23 pH	17.81 °C	55.77 µS/cm	0.10 mg/L	1.12 NTU	69.0 mV	20.10 ft	200.00 ml/min
1/28/2025 3:50 PM	30:00	5.26 pH	17.78 °C	55.42 µS/cm	0.09 mg/L	0.43 NTU	65.4 mV	20.10 ft	200.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Field Instrumentation Calibration Form



Site Name: Plant #2 LF3

Date: 1/29/25

Calibrated By: J. B. [Signature]

Field Conditions: 1st Rain

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	<u>Hach 1400</u>	<u>989619</u>
Turbidity Meter	<u>Hach 21000</u>	<u>22080D001127</u>

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI H ₂ O	N/A	N/A
pH (SU)	4.00	<u>46B1376</u>	<u>02/26</u>	PINE
pH (SU)	7.00	<u>46D1667</u>	<u>04/26</u>	PINE
pH (SU)	10.00	<u>46C0600</u>	<u>03/26</u>	PINE
Specific Conductance (µS/cm)	1,413	<u>46E0677</u>	<u>05/25</u>	PINE
ORP (mV)	240.0	<u>46E1370</u>	<u>02/25</u>	PINE

Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	DI H ₂ O	N/A	N/A
	10	<u>A4172</u>	<u>09/25</u>	HACH
	20	<u>A4183</u>	<u>10/25</u>	HACH
	100	<u>A4179</u>	<u>10/25</u>	HACH

Calibration					
Time Start: <u>1519</u>		Time Finish: <u>1530</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	<u>99.19</u>	<u>18.16</u>	± 10%	EPA 2023
pH (SU)	4.00	<u>4.00</u>	<u>19.13</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.02</u>	<u>19.53</u>	± 0.1	GWMP
pH (SU)	10.00	<u>10.05</u>	<u>19.34</u>	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	<u>1412</u>	<u>19.25</u>	± 10% of standard	NA
ORP (mV)	240.0 <u>236</u>	<u>236</u>	<u>19.54</u>	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	<u>0.16</u>	± 10% of standard	EPA 2023
	10	<u>10.0</u>		
	20	<u>23.3</u>		
	100	<u>114</u>		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0		± 10% of standard	EPA 2023
	10			
	20			
	100			

Notes: Sampled only afternoon

Field Instrumentation Calibration Form


 Site Name: Mitish LF3

 Date: 1/28/25

 Calibrated By: J. Bersted

 Field Conditions: Sunny

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	AquaTron 400	989619
Turbidity Meter	HACH 2100Q	220800061127

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI H ₂ O	N/A	N/A
pH (SU)	4.00	4681376	02/26	PINE
pH (SU)	7.00	4601667	04/26	PINE
pH (SU)	10.00	4600600	03/26	PINE
Specific Conductance (µS/cm)	1,413	46E0677	05/25	PINE
ORP (mV)	240.0	46E1370	02/25	PINE

Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	DI H ₂ O	N/A	N/A
	10	A4172	09/25	HACH
	20	A4183	10/25	HACH
	100	A4179	10/25	HACH

Calibration					
Time Start: <u>0842</u>		Time Finish: <u>0856</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	106.3	14.79	± 10%	EPA 2023
pH (SU)	4.00	4.00	13.14	± 0.1	GWMP
pH (SU)	7.00	7.04	12.89	± 0.1	GWMP
pH (SU)	10.00	10.11	13.65	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1409	12.91	± 10% of standard	NA
ORP (mV)	240.0	245	12.93	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.15	± 10% of standard	EPA 2023
	10	10.2		
	20	20.0		
	100	99.6		

Calibration Check					
Time Start <u>1450</u>		Time Finish <u>1500</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.08	15.72	± 0.1	GWMP
pH (SU)	7.00	7.03	15.67	± 0.1	GWMP
pH (SU)	10.00	10.02	14.73	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1414	14.92	± 10% of standard	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.13	± 10% of standard	EPA 2023
	10	10.0		
	20	20.0		
	100	101		

Notes:

Field Instrumentation Calibration Form



Site Name: McIntosh LF3

Date: 1/27/25

Calibrated By: D. Johnson

Field Conditions: Cloudy, 49°F

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	<u>Agar TROLL 400</u>	<u>966105</u>
Turbidity Meter	<u>HACH 2100Q</u>	<u>22089000803</u>

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	—	—	—
pH (SU)	4.00	<u>2401093</u>	<u>05/25</u>	<u>AIR</u>
pH (SU)	7.00	<u>24008587</u>	<u>06/25</u>	<u>AIR</u>
pH (SU)	10.00	<u>24004996</u>	<u>06/25</u>	<u>AIR</u>
Specific Conductance (µS/cm)	1,413	<u>24010943</u>	<u>05/25</u>	<u>AIR</u>
ORP (mV)	240.0	<u>24011792</u>	<u>06/25</u>	<u>AIR</u>
Turbidity (NTU)	Standard	Lot #	Date of Expiration	Brand
	0	—	—	<u>new D.I</u>
	10	<u>A4172</u>	<u>09/25</u>	<u>HACH</u>
	20	<u>A4183</u>	<u>10/25</u>	<u>HACH</u>
	100	<u>A4179</u>	<u>10/25</u>	<u>HACH</u>

Calibration					
Time Start: <u>1505</u>		Time Finish: <u>1550</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	<u>99.03</u>	<u>14.50</u>	± 10%	EPA 2023
pH (SU)	4.00	<u>4.00</u>	<u>14.47</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.02</u>	<u>14.52</u>	± 0.1	GWMP
pH (SU)	10.00	<u>10.05</u>	<u>14.53</u>	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	<u>1411</u>	<u>14.77</u>	± 10% of standard	NA
ORP (mV)	240.0	<u>239.8</u>	<u>14.45</u>	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	<u>0.37</u>		
	10	<u>9.98</u>		
	20	<u>19.50</u>		
	100	<u>98.0</u>		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023
Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference	
	0				
	10				
	20				
	100				

Notes:

Field Instrumentation Calibration Form



Site Name: D. Johnson
 Calibrated By: D. McIntosh LF3

Date: 1/28/25
 Field Conditions: 44°F Sunny

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	<u>Agre TROLL 400</u>	<u>9166105</u>
Turbidity Meter	<u>HACH 2800Q</u>	<u>2208D000503</u>

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	—	—	—
pH (SU)	4.00	<u>2401093</u>	<u>05/25</u>	<u>AIS</u>
pH (SU)	7.00	<u>24008587</u>	<u>06/25</u>	↓
pH (SU)	10.00	<u>24004996</u>	<u>06/25</u>	
Specific Conductance (µS/cm)	1,413	<u>24010943</u>	<u>05/25</u>	
ORP (mV)	240.0	<u>24011792</u>	<u>06/25</u>	
Turbidity (NTU)	Standard	Lot #	Date of Expiration	
	0	—	—	<u>— New DI</u>
	10	<u>A4172</u>	<u>09/25</u>	<u>HACH</u>
	20	<u>A4183</u>	<u>10/25</u>	↓
	100	<u>A4179</u>	<u>10/25</u>	

Calibration					
Time Start: <u>0830</u>		Time Finish: <u>0850</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	<u>98.13</u>	<u>13.17</u>	± 10%	EPA 2023
pH (SU)	4.00	<u>4.00</u>	<u>13.24</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.06</u>	<u>11.29</u>	± 0.1	GWMP
pH (SU)	10.00	<u>10.1</u>	<u>11.89</u>	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	<u>1410</u>	<u>25.00</u>	± 10% of standard	NA
ORP (mV)	240.0	<u>239</u>	<u>16.27</u>	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	<u>0.31</u>	± 10% of standard	EPA 2023
	10	<u>10.1</u>		
	20	<u>20.4</u>		
	100	<u>100</u>		

Calibration Check					
Time Start <u>1150</u>		Time Finish <u>1200</u>			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	<u>4.01</u>	<u>18.23</u>	± 0.1	GWMP
pH (SU)	7.00	<u>7.03</u>	<u>18.20</u>	± 0.1	GWMP
pH (SU)	10.00	<u>10.00</u>	<u>18.22</u>	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	<u>1416</u>	<u>18.31</u>	± 10% of standard	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	<u>0.22</u>	± 10% of standard	EPA 2023
	10	<u>10.1</u>		
	20	<u>20.0</u>		
	100	<u>100</u>		

Notes:

Well Inspection

Site Name: Plant McIntosh LF3

Date: 1/27/2025

Permit Number: 051-008D(CCR)

Field Conditions: 53 °F

Well ID:	Corrective actions as needed, by date:
GWA-1B	
GWA-2B	
GWA-3A	March 25-26, 2025 - Well pad was removed and replaced.
GWA-4	
GWA-5	
GWA-7A	
GWC-1A	
GWC-2	
GWC-4A	March 25-26, 2025 - Well pad was removed and replaced.
GWC-5A	
GWC-6A	
PZ-1	March 25-26, 2025 - Well pad was removed and replaced.
PZ-2	
PZ-3	
PZ-4	
PZ-5	



ATLANTIC COAST
CONSULTING, INC.

*A solid approach
for a cleaner environment.*

Memorandum

To: Kevin Stephenson – Southern Company Services
From: Atlantic Coast Consulting, Inc.
Date: May 19, 2025
Subject: Plant McIntosh Inactive Landfill No. 3 – Well Maintenance and Repair Documentation, Georgia Power Company

Atlantic Coast Consulting, Inc. (ACC) has prepared this memorandum to provide documentation of any groundwater monitoring well maintenance and/or repairs performed at Plant McIntosh Inactive Landfill No. 3 during the 2025 Annual Groundwater Monitoring reporting period. All repairs and maintenance are documented as completed in accordance with the Georgia Environmental Protection Division's guidance on routine visual inspections of groundwater monitoring wells.

On March 25-26, 2025, Southern Company Civil Field Services replaced the cracked well pad for piezometer PZ-1. Additionally, the well pads for GWA-3 and GWC-4 were also removed and replaced. Although wells GWA-3A and GWC-4A were already in compliance, the well pads from the previously abandoned wells GWA-3B and GWC-4B were still in place and needed to be removed.

No other repairs or well maintenance were necessary during the reporting period.

APPENDIX B

STATISTICAL ANALYSIS REPORTS

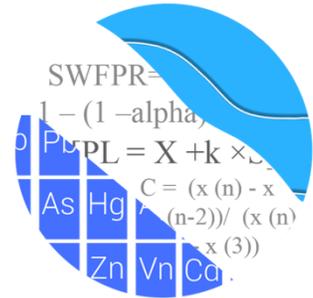
APPENDIX B

*Statistical Analysis Report
August 2024 Monitoring Event*

GROUNDWATER STATS CONSULTING

February 28, 2025

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant McIntosh Landfill #3
Statistical Analysis – August 2024 Semi-Annual Sample Event

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of the August 2024 semi-annual sample event for Georgia Power Company's Plant McIntosh Landfill #3. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling at the majority of wells began for the CCR program in 2016, and for the state program in accordance with the Georgia EPD's Solid Waste Permit in 1999. Semi-annual sampling for select constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations; and all available data from upgradient wells are screened in this report.

The current monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GWA-1B, GWA-2B, GWA-3A, GWA-4, GWA-5, and GWA-7A
- **Downgradient wells:** GWC-1A, GWC-2, GWC-4A, GWC-5A, and GWC-6A

Previously, the monitoring well network included upgradient well GWA-1A and downgradient wells GWC-1, GWC-5, and GWC-6. However, these wells were recently

abandoned and replacement upgradient well GWA-1B and downgradient wells GWC-1A, GWC-5A, and GWC-6A were installed. While abandoned downgradient wells GWC-1, GWC-5, and GWC-6 are not included in the analysis, data from upgradient well GWA-1A continue to be included in construction of interwell prediction limits since the data represents historical groundwater quality upgradient of the facility,

New upgradient well GWA-1B and replacement downgradient wells GWC-1A, GWC-5A, and GWC-6A currently have been sampled at least 8 times for Appendix I and III constituents; therefore, data from these wells are included in the statistical analysis.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting. The analysis is prepared according to the recommended interwell statistical methodology as presented in the USEPA Unified Guidance. The original screening was conducted in Fall 2019 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance. During the initial screening both intrawell and interwell statistical methods were recommended. However, further studies conducted by Southern Company Services of waste placement with respect to when groundwater monitoring began suggested interwell methods for all constituents should be used as the primary statistical method.

The following constituents were evaluated in this report:

- **CCR Appendix III** - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Georgia EPD Appendix I** - barium, beryllium, chromium, cobalt, copper, lead, vanadium, and zinc

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A list of downgradient Appendix I well/constituent pairs containing 100% non-detects follows this letter.

Due to varying detection limits in background data sets as a result of improved laboratory practices, a substitution of the most recent reporting limit is used for all non-detects.

Time series plots for reported CCR Appendix III and Georgia EPD Appendix I constituents are provided for all 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 both within individual wells and between all wells.

Data at all wells were evaluated during the initial background screening in 2019, as described below, for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for constituents based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Because groundwater sampling began after waste was placed, interwell prediction limits were determined to be the most appropriate statistical method. Power curves were provided during previous analyses and demonstrated that the interwell methods for all constituents comply with the USEPA Unified Guidance recommendations as discussed below. 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. Power curves were based on the following statistical methods:

CCR Appendix III Constituents:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan
- # Constituents: 7
- # Downgradient wells: 5

Georgia EPD Appendix I Constituents:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan
- # Constituents: 8
- # Downgradient wells: 5

Summary of Statistical Methods – All Constituents

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. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits. Non-detects are handled as follows:

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for

non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.

- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits will be necessary to accommodate these types of changes. In the interwell case, newer data are included during each sample event after screening for new outliers in upgradient wells. In some cases, the earlier portion of data may require deselection prior to construction of limits in order to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs, and a summary of any truncated records will be provided.

Summary of Initial Background Screening (2019) – All Constituents

Outlier Analysis

The original background screening for the CCR and Georgia EPD state programs was conducted in 2019 and the results were submitted at that time. Several values were identified and flagged as outliers in both upgradient and downgradient wells for all constituents. Suspected outliers at upgradient wells for all constituents were formally tested using Tukey's box plot method and, when confirmed, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

When suspected outliers were evaluated using the Tukey box plot method, several outliers were identified. As a general rule, when the most recent values are identified as outliers, values are not flagged in the database (except in cases where statistical limits would be elevated) as the concentrations may represent a possible trend. If future values do not remain at similar concentrations, these values may be flagged as outliers and deselected. Note that for some well/constituent pairs, the test identified multiple outliers. However, in many of those cases, only the highest value(s) were flagged as outliers as the remaining values were similar to other measurements within the same well or neighboring wells. In other cases, the test did not identify an outlier; however, the highest measurement(s) did

not appear to represent the population and were flagged as outliers in the database to establish limits that are conservative from a regulatory perspective.

Seasonality

No seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Tests

Time series plots were also used to identify any visually trending patterns in upgradient well data. None were observed except for increasing low-level concentrations of chloride in upgradient well GWA-3A. However, because the more recent observations were similar to those historically reported in upgradient well GWA-5, no adjustments were required at the time of the screening.

In the future, if statistically significant increasing or decreasing trends are identified in the pooled upgradient well data, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. A list of the adjusted background date ranges will be provided if this step is required in future analyses.

Statistical Analysis of CCR Appendix III Parameters – August 2024

Outlier Analysis

During this analysis, only upgradient well data were re-evaluated through time series graphs for new outliers, or extreme values in background that would result in limits that are not conservative from a regulatory perspective, prior to construction of interwell prediction limits. Values flagged in downgradient wells from previous analyses remain flagged but have no impact on calculations of interwell prediction limits. No additional outliers were flagged during this analysis. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph.

The accompanying data pages display the flagged value in a lighter font as well. A list of all flagged values follows this letter (Figure C).

Upgradient Well Trend Test Evaluation

It was noted that concentrations in at least one upgradient well for chloride have steadily increased since 2016. These measurements will continue to be evaluated and, as mentioned above, earlier portions of the record may require truncation if concentrations no longer represent present-day groundwater quality. During this analysis, the Sen's Slope/Mann-Kendall trend test was performed to evaluate whether statistically significant trends were present among upgradient wells (Figure D). While statically significant trends were also identified among at least one upgradient well for calcium, pH, sulfate, and TDS in addition to chloride, truncation of the records with statistically significant trends was not required as the individual trends relative to pooled upgradient well data would not impact resulting statistical limits.

Interwell Prediction Limits

For all Appendix III parameters, interwell prediction limits combined with a 1-of-2 resample plan were constructed using all upgradient historical data through August 2024 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent 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. If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no exceedance is noted, and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Summary tables of the Appendix III prediction limits follow this letter. No exceedances were noted for Appendix III parameters; therefore, no further action was required.

Trend Test Evaluation – Prediction Limit Exceedances

While this step was not required during this analysis as a result of no prediction limit exceedances, when data from downgradient well/constituent pairs are found to exceed their respective prediction limit, data will be further evaluated using the Sen's Slope/Mann Kendall trend test along with upgradient wells for the same constituents. 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. Such patterns are an indication of variability in groundwater unrelated to practices at the site.

Statistical Analysis of Georgia EPD Appendix I Parameters –August 2024

Outlier Analysis

As mentioned above, only upgradient well data were re-evaluated through time series graphs for new outliers, or extreme values in background that would result in limits that are not conservative from a regulatory perspective, prior to construction of interwell prediction limits. Previously flagged values were confirmed during this analysis. No additional values were identified as spurious for Appendix I parameters among upgradient wells; therefore, no additional values were flagged.

Upgradient Well Trend Test Evaluation

As mentioned above, the Sen's Slope/Mann-Kendall trend test was performed to evaluate whether statistically significant trends were present among upgradient wells (Figure D). While significant trends were identified for barium, beryllium, cobalt, and lead, the majority of the significant trends for these constituents had a slope of 0 due to high concentrations of non-detects. Additionally, truncation of any of these records was not required as the individual trends relative to pooled upgradient well data would not impact resulting statistical limits.

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all available data from upgradient wells through August 2024 (Figure F). As previously discussed, no statistical analyses were included for downgradient well/constituent pairs containing 100% non-detects. A summary table of the prediction limits along with the complete prediction limits results follows this letter. No exceedances were noted for any of the Appendix I parameters.

Trend Test Evaluation – Prediction Limit Exceedances

As mentioned above, data from downgradient well/constituent pairs found to exceed their respective prediction limit are further evaluated using the Sen's Slope/Mann Kendall trend test along with upgradient wells for the same constituents. Upgradient wells are

included in the trend analyses for all parameters found to exceed their prediction limit. Since no prediction limit exceedances were noted for any of the Appendix I constituents, no trend analyses were required.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for McIntosh Landfill #3. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Abdul Diane
Groundwater Analyst



Andrew T. Collins
Project Manager

100% Non-Detects: Appendix I Downgradient

Analysis Run 9/30/2024 7:11 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Copper (mg/L)
GWC-4A, GWC-5A, GWC-6A

Lead (mg/L)
GWC-4A

Vanadium (mg/L)
GWC-5A, GWC-6A

Upgradient Wells Trend Test - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 9/30/2024, 2:42 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Barium (mg/L)	GWA-1A (bg)	-0.002091	-4.785	-2.58	Yes	53	0	n/a	0.01	NP
Barium (mg/L)	GWA-3A (bg)	0.002001	8.004	2.58	Yes	59	0	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	0.0009595	6.77	2.58	Yes	58	0	n/a	0.01	NP
Barium (mg/L)	GWA-7A (bg)	-0.01014	-63	-48	Yes	14	0	n/a	0.01	NP
Beryllium (mg/L)	GWA-1A (bg)	0	-3.562	-2.58	Yes	53	77.36	n/a	0.01	NP
Beryllium (mg/L)	GWA-3A (bg)	0	-4.421	-2.58	Yes	59	61.02	n/a	0.01	NP
Beryllium (mg/L)	GWA-4 (bg)	0	-3.732	-2.58	Yes	58	77.59	n/a	0.01	NP
Beryllium (mg/L)	GWA-5 (bg)	0	-3.919	-2.58	Yes	58	68.97	n/a	0.01	NP
Calcium (mg/L)	GWA-2B (bg)	-0.8026	-52	-48	Yes	14	0	n/a	0.01	NP
Calcium (mg/L)	GWA-3A (bg)	0.4534	209	92	Yes	22	0	n/a	0.01	NP
Calcium (mg/L)	GWA-4 (bg)	0.06573	112	87	Yes	21	0	n/a	0.01	NP
Chloride (mg/L)	GWA-3A (bg)	3.609	223	92	Yes	22	0	n/a	0.01	NP
Cobalt (mg/L)	GWA-1A (bg)	0	-4.074	-2.58	Yes	52	67.31	n/a	0.01	NP
Cobalt (mg/L)	GWA-4 (bg)	-0.00007038	-5.269	-2.58	Yes	58	58.62	n/a	0.01	NP
Cobalt (mg/L)	GWA-5 (bg)	-0.00007271	-5.474	-2.58	Yes	57	33.33	n/a	0.01	NP
Cobalt (mg/L)	GWA-7A (bg)	-0.000588	-77	-48	Yes	14	0	n/a	0.01	NP
Copper (mg/L)	GWA-5 (bg)	0	-3.145	-2.58	Yes	50	76	n/a	0.01	NP
Lead (mg/L)	GWA-1A (bg)	0	-3.316	-2.58	Yes	52	80.77	n/a	0.01	NP
Lead (mg/L)	GWA-3A (bg)	0	-4.136	-2.58	Yes	59	83.05	n/a	0.01	NP
Lead (mg/L)	GWA-5 (bg)	-2.2e-13	-5.267	-2.58	Yes	58	63.79	n/a	0.01	NP
pH (S.U.)	GWA-3A (bg)	-0.0136	-3.1	-2.58	Yes	43	0	n/a	0.01	NP
Sulfate (mg/L)	GWA-1B (bg)	-1.078	-39	-34	Yes	11	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-3A (bg)	9.971	152	92	Yes	22	4.545	n/a	0.01	NP
Vanadium (mg/L)	GWA-5 (bg)	-0.00005969	-4.812	-2.58	Yes	53	62.26	n/a	0.01	NP

Appendix III - Interwell Prediction Limits - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 9/30/2024, 7:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-1A	1.9	n/a	8/20/2024	0.24	No	120	n/a	n/a	34.17	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	1.9	n/a	8/20/2024	0.11	No	120	n/a	n/a	34.17	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4A	1.9	n/a	8/20/2024	0.08ND	No	120	n/a	n/a	34.17	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-5A	1.9	n/a	8/20/2024	0.08ND	No	120	n/a	n/a	34.17	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6A	1.9	n/a	8/20/2024	0.034J	No	120	n/a	n/a	34.17	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1A	20	n/a	8/20/2024	2.6	No	119	n/a	n/a	0	n/a	n/a	0.000138	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	20	n/a	8/20/2024	10	No	119	n/a	n/a	0	n/a	n/a	0.000138	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4A	20	n/a	8/20/2024	0.36J	No	119	n/a	n/a	0	n/a	n/a	0.000138	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5A	20	n/a	8/20/2024	1.6	No	119	n/a	n/a	0	n/a	n/a	0.000138	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6A	20	n/a	8/20/2024	3.2	No	119	n/a	n/a	0	n/a	n/a	0.000138	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1A	33	n/a	8/20/2024	15	No	120	n/a	n/a	0	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	33	n/a	8/20/2024	5	No	120	n/a	n/a	0	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4A	33	n/a	8/20/2024	4.9	No	120	n/a	n/a	0	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5A	33	n/a	8/20/2024	10	No	120	n/a	n/a	0	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6A	33	n/a	8/20/2024	11	No	120	n/a	n/a	0	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1A	0.51	n/a	8/20/2024	0.1ND	No	120	n/a	n/a	55.83	n/a	n/a	0.0001351	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-2	0.51	n/a	8/20/2024	0.1ND	No	120	n/a	n/a	55.83	n/a	n/a	0.0001351	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-4A	0.51	n/a	8/20/2024	0.1ND	No	120	n/a	n/a	55.83	n/a	n/a	0.0001351	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-5A	0.51	n/a	8/20/2024	0.1ND	No	120	n/a	n/a	55.83	n/a	n/a	0.0001351	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6A	0.51	n/a	8/20/2024	0.1ND	No	120	n/a	n/a	55.83	n/a	n/a	0.0001351	NP Inter (NDs) 1 of 2
pH (S.U.)	GWC-1A	5.894	4.038	8/20/2024	4.52	No	200	4.966	0.5192	0	None	No	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-2	5.894	4.038	8/20/2024	5.6	No	200	4.966	0.5192	0	None	No	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-4A	5.894	4.038	8/20/2024	4.68	No	200	4.966	0.5192	0	None	No	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-5A	5.894	4.038	8/20/2024	4.78	No	200	4.966	0.5192	0	None	No	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-6A	5.894	4.038	8/20/2024	5.3	No	200	4.966	0.5192	0	None	No	0.000752	Param Inter 1 of 2
Sulfate (mg/L)	GWC-1A	110	n/a	8/20/2024	0.48J	No	120	n/a	n/a	26.67	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	110	n/a	8/20/2024	5.1	No	120	n/a	n/a	26.67	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4A	110	n/a	8/20/2024	0.95J	No	120	n/a	n/a	26.67	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5A	110	n/a	8/20/2024	0.52J	No	120	n/a	n/a	26.67	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6A	110	n/a	8/20/2024	3.2	No	120	n/a	n/a	26.67	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-1A	167	n/a	8/20/2024	56	No	119	7.988	2.746	1.681	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-2	167	n/a	8/20/2024	60	No	119	7.988	2.746	1.681	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-4A	167	n/a	8/20/2024	23	No	119	7.988	2.746	1.681	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-5A	167	n/a	8/20/2024	39	No	119	7.988	2.746	1.681	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-6A	167	n/a	8/20/2024	71	No	119	7.988	2.746	1.681	None	sqrt(x)	0.001504	Param Inter 1 of 2

Appendix I - Interwell Prediction Limits - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 9/30/2024, 12:46 PM

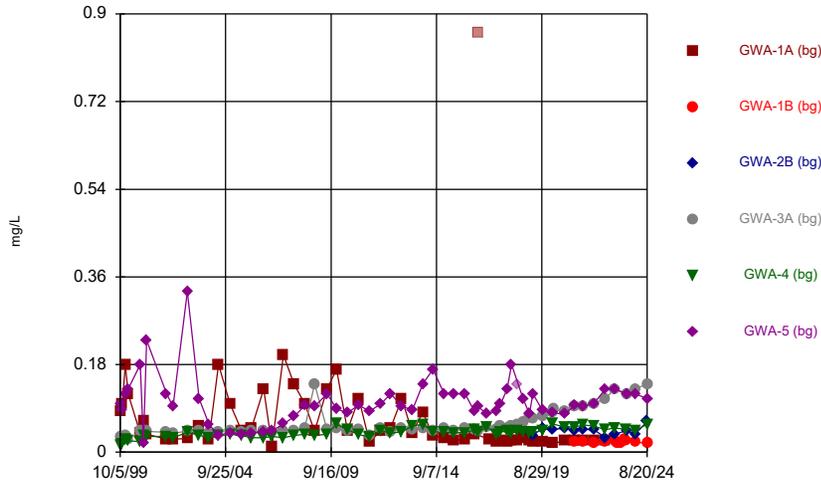
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-1A	0.33	n/a	8/20/2024	0.29	No	266	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-2	0.33	n/a	8/20/2024	0.097	No	266	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-4A	0.33	n/a	8/20/2024	0.046	No	266	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-5A	0.33	n/a	8/20/2024	0.13	No	266	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-6A	0.33	n/a	8/20/2024	0.088	No	266	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Beryllium (mg/L)	GWC-1A	0.0036	n/a	8/20/2024	0.0005J	No	267	n/a	n/a	65.92	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-2	0.0036	n/a	8/20/2024	0.00026J	No	267	n/a	n/a	65.92	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-4A	0.0036	n/a	8/20/2024	0.0025ND	No	267	n/a	n/a	65.92	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-5A	0.0036	n/a	8/20/2024	0.00051J	No	267	n/a	n/a	65.92	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-6A	0.0036	n/a	8/20/2024	0.00033J	No	267	n/a	n/a	65.92	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1A	0.032	n/a	8/20/2024	0.002ND	No	265	n/a	n/a	52.08	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.032	n/a	8/20/2024	0.0027	No	265	n/a	n/a	52.08	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-4A	0.032	n/a	8/20/2024	0.002ND	No	265	n/a	n/a	52.08	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-5A	0.032	n/a	8/20/2024	0.002ND	No	265	n/a	n/a	52.08	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-6A	0.032	n/a	8/20/2024	0.0013J	No	265	n/a	n/a	52.08	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-1A	0.0072	n/a	8/20/2024	0.0048	No	265	n/a	n/a	47.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-2	0.0072	n/a	8/20/2024	0.0015J	No	265	n/a	n/a	47.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-4A	0.0072	n/a	8/20/2024	0.00048J	No	265	n/a	n/a	47.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-5A	0.0072	n/a	8/20/2024	0.0037	No	265	n/a	n/a	47.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-6A	0.0072	n/a	8/20/2024	0.001J	No	265	n/a	n/a	47.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Copper (mg/L)	GWC-1A	0.008	n/a	8/20/2024	0.002ND	No	246	n/a	n/a	79.27	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-2	0.008	n/a	8/20/2024	0.002ND	No	246	n/a	n/a	79.27	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1A	0.016	n/a	8/20/2024	0.001ND	No	266	n/a	n/a	80.45	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.016	n/a	8/20/2024	0.001ND	No	266	n/a	n/a	80.45	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-5A	0.016	n/a	8/20/2024	0.00024J	No	266	n/a	n/a	80.45	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-6A	0.016	n/a	8/20/2024	0.001ND	No	266	n/a	n/a	80.45	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1A	0.03	n/a	8/20/2024	0.002ND	No	247	n/a	n/a	76.11	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.03	n/a	8/20/2024	0.002ND	No	247	n/a	n/a	76.11	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-4A	0.03	n/a	8/20/2024	0.002ND	No	247	n/a	n/a	76.11	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWC-1A	0.074	n/a	8/20/2024	0.02	No	249	n/a	n/a	23.69	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.074	n/a	8/20/2024	0.0067	No	249	n/a	n/a	23.69	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-4A	0.074	n/a	8/20/2024	0.005ND	No	249	n/a	n/a	23.69	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-5A	0.074	n/a	8/20/2024	0.015	No	249	n/a	n/a	23.69	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-6A	0.074	n/a	8/20/2024	0.0052	No	249	n/a	n/a	23.69	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

Table of Contents

Figure A. Time Series	14
Figure B. Box Plots	71
Figure C. Outlier Summary	80
Figure D. Upgradient Wells Trend Tests	83
Figure E. Appendix III Interwell Prediction Limits	91
Figure F. Appendix I Interwell Prediction Limits	123

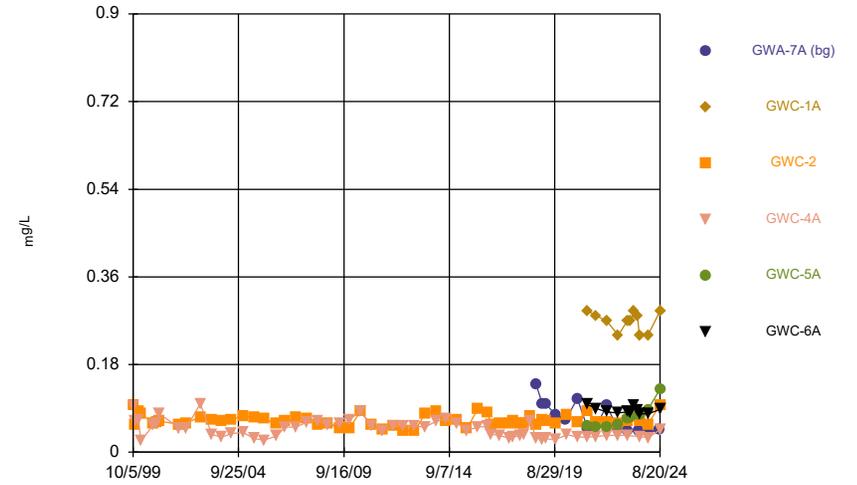
FIGURE A.

Time Series



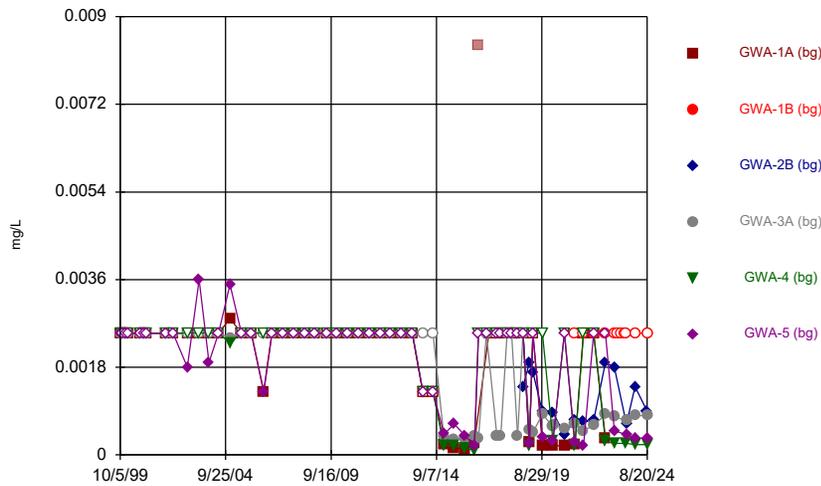
Constituent: Barium Analysis Run 9/30/2024 12:36 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



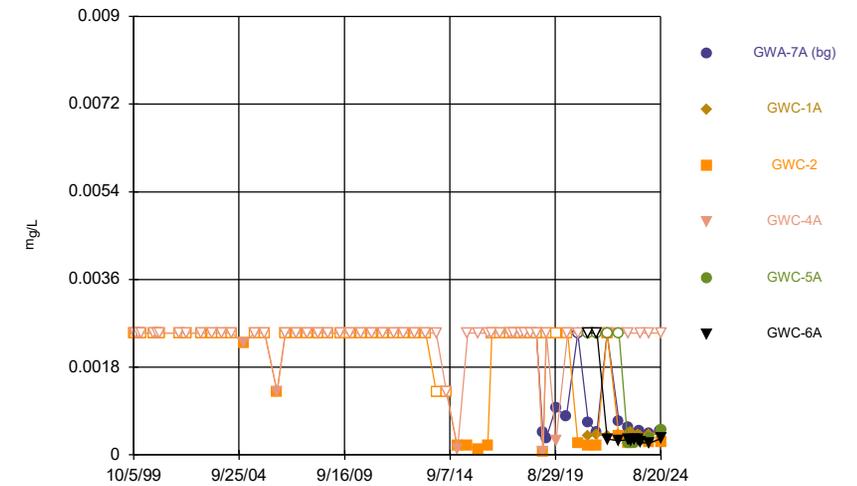
Constituent: Barium Analysis Run 9/30/2024 12:36 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



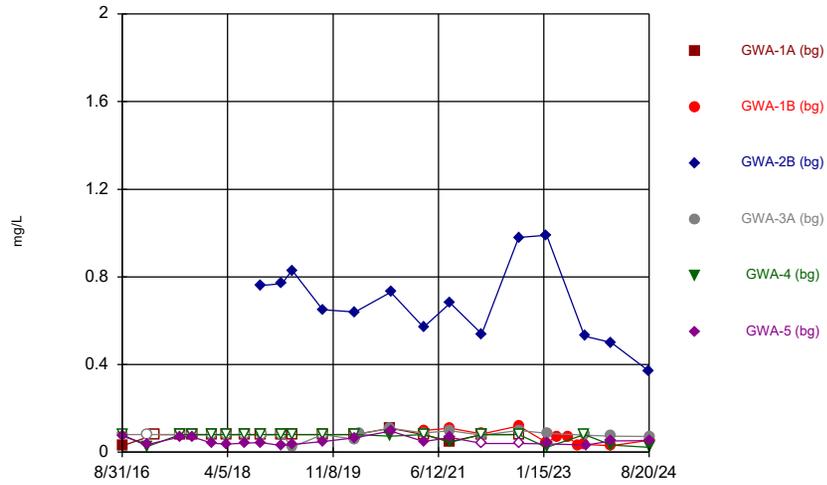
Constituent: Beryllium Analysis Run 9/30/2024 12:36 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



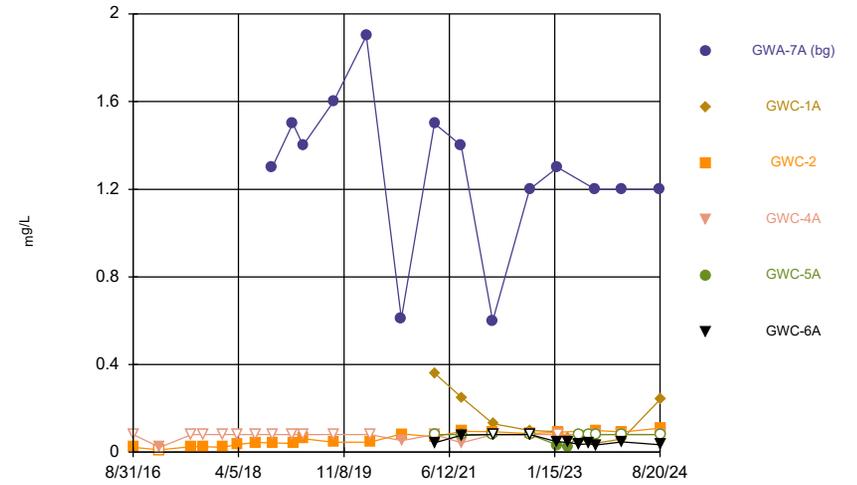
Constituent: Beryllium Analysis Run 9/30/2024 12:36 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



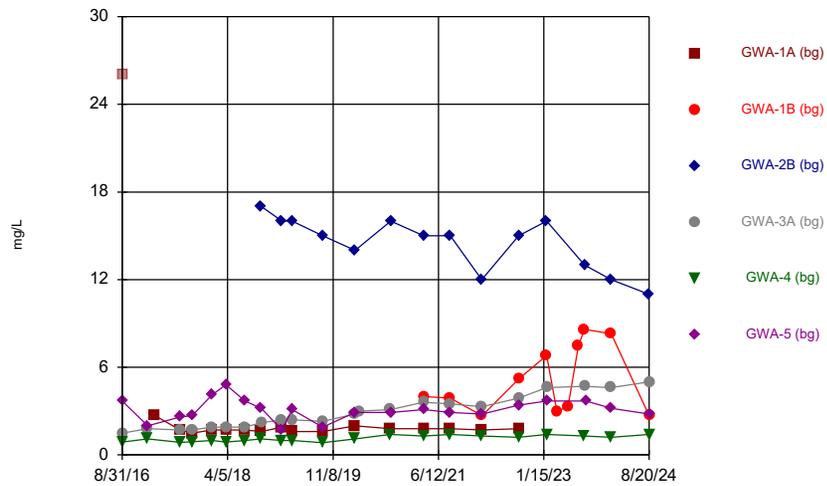
Constituent: Boron Analysis Run 9/30/2024 12:36 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



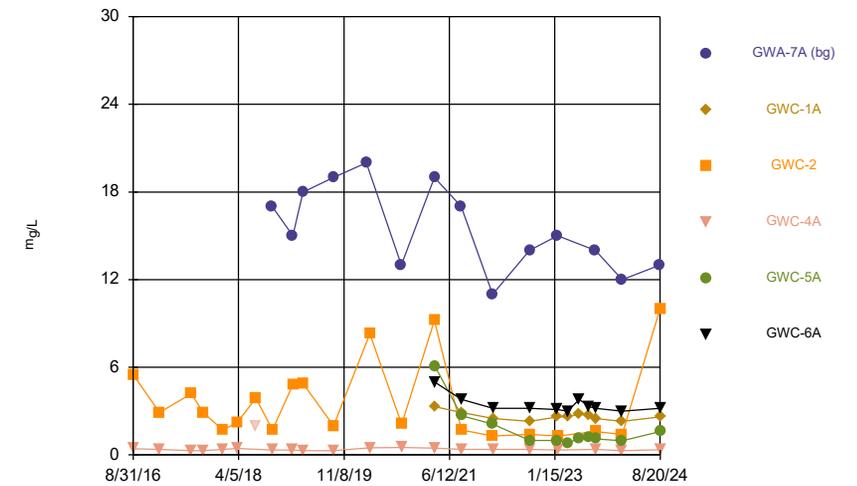
Constituent: Boron Analysis Run 9/30/2024 12:36 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



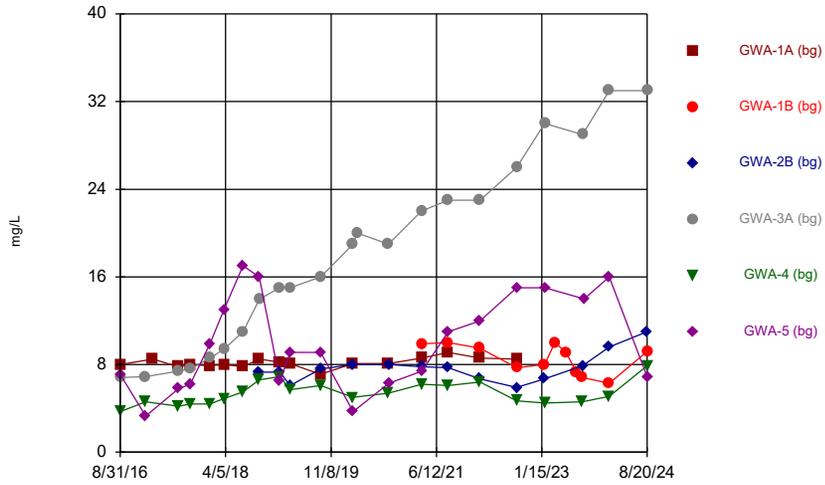
Constituent: Calcium Analysis Run 9/30/2024 12:36 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



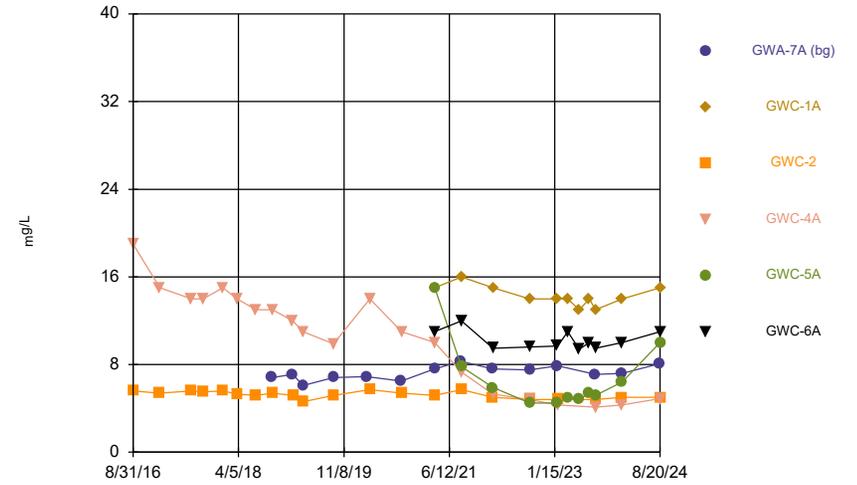
Constituent: Calcium Analysis Run 9/30/2024 12:36 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



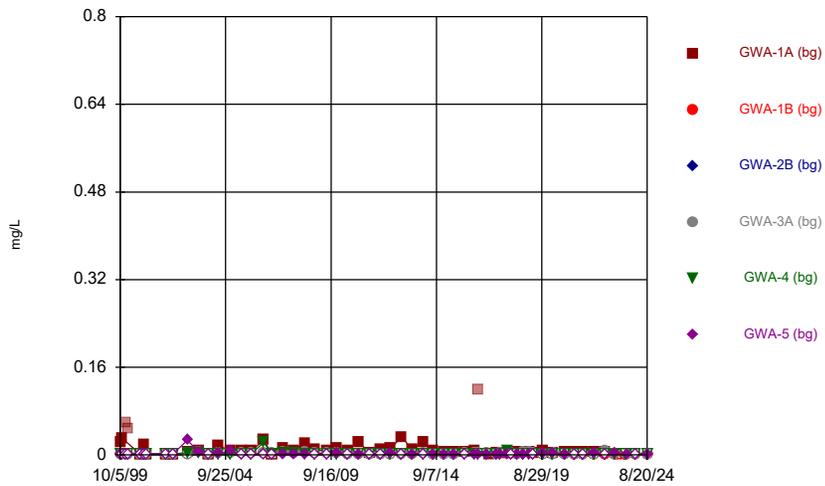
Constituent: Chloride Analysis Run 9/30/2024 12:36 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



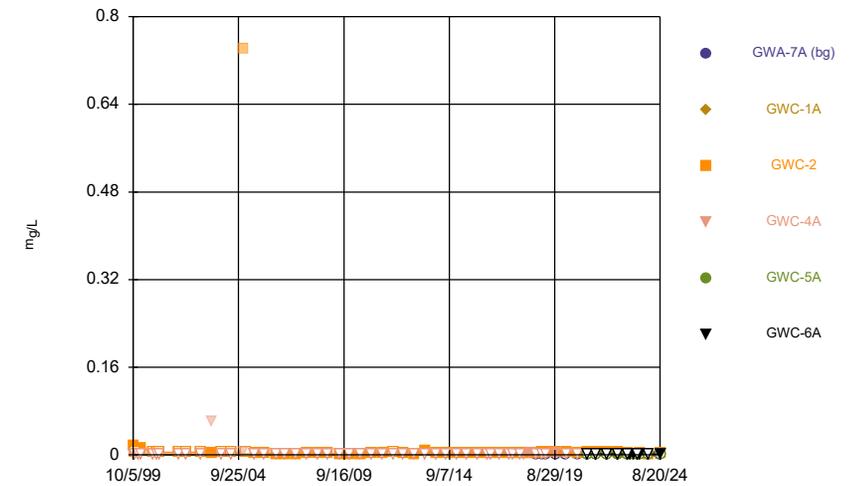
Constituent: Chloride Analysis Run 9/30/2024 12:36 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



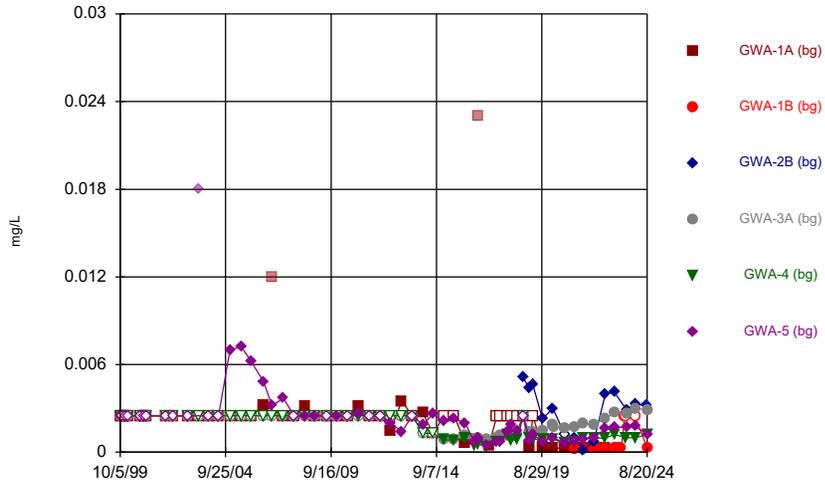
Constituent: Chromium Analysis Run 9/30/2024 12:36 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



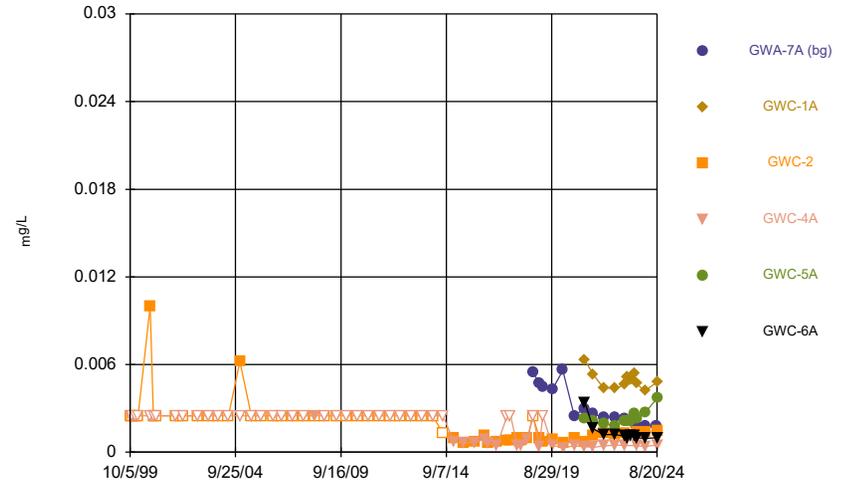
Constituent: Chromium Analysis Run 9/30/2024 12:36 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



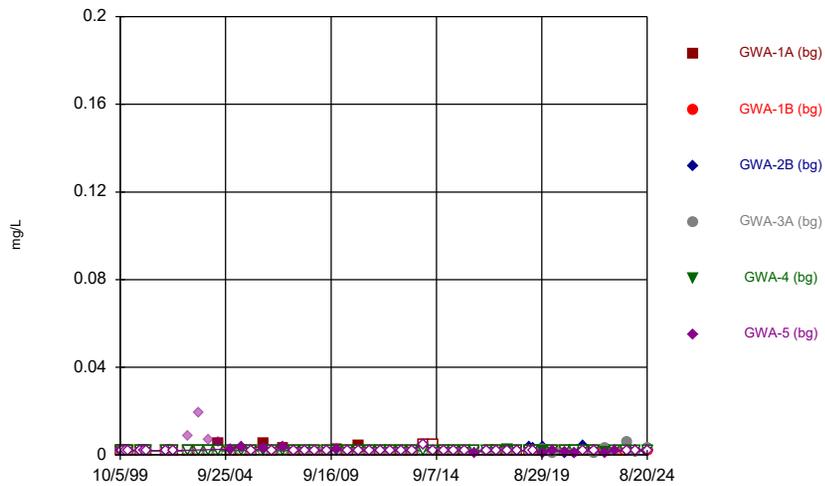
Constituent: Cobalt Analysis Run 9/30/2024 12:36 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



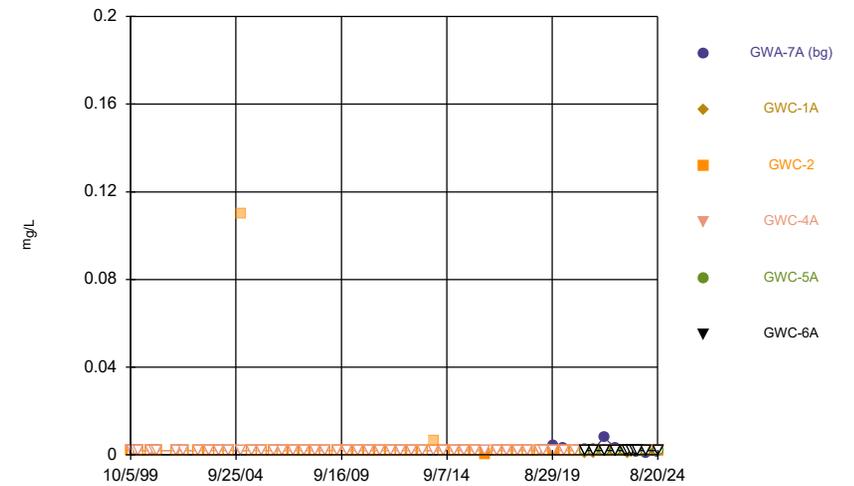
Constituent: Cobalt Analysis Run 9/30/2024 12:37 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



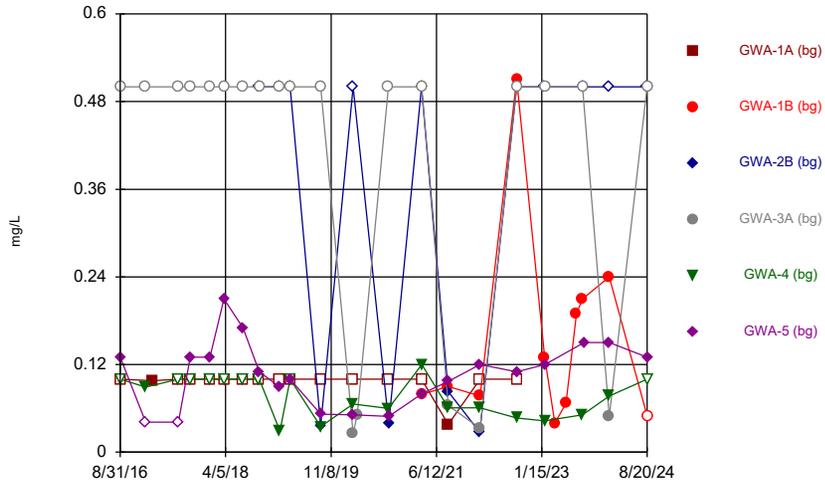
Constituent: Copper Analysis Run 9/30/2024 12:37 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



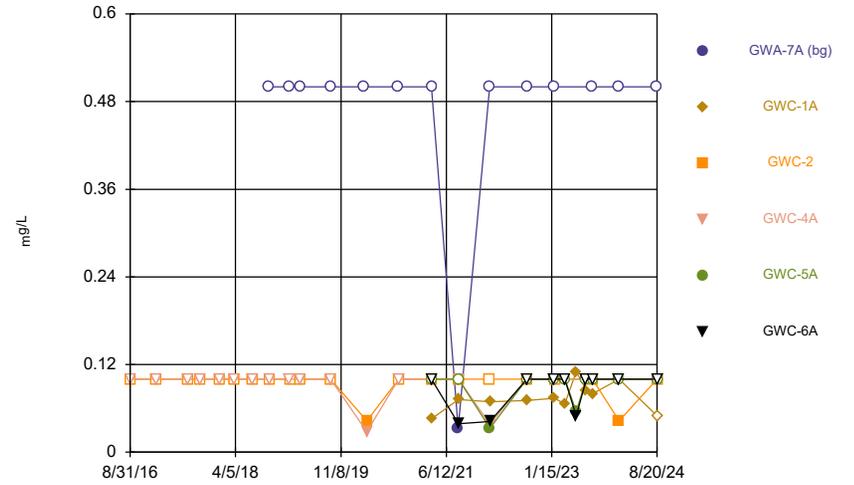
Constituent: Copper Analysis Run 9/30/2024 12:37 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



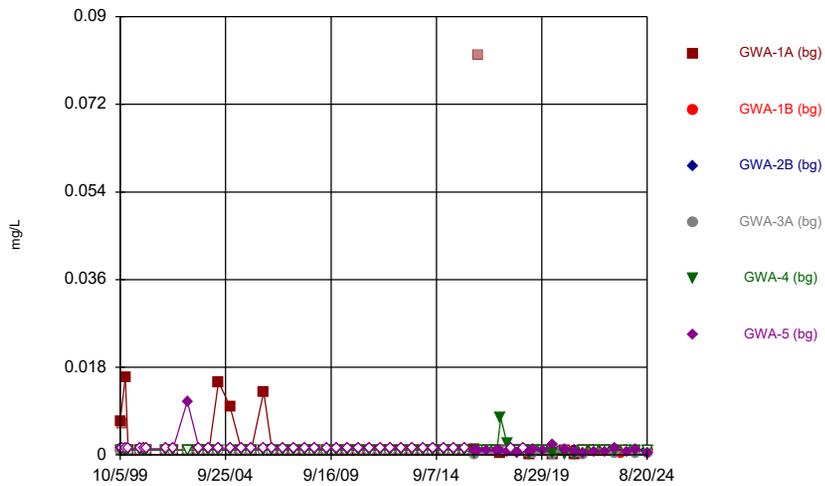
Constituent: Fluoride Analysis Run 9/30/2024 12:37 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



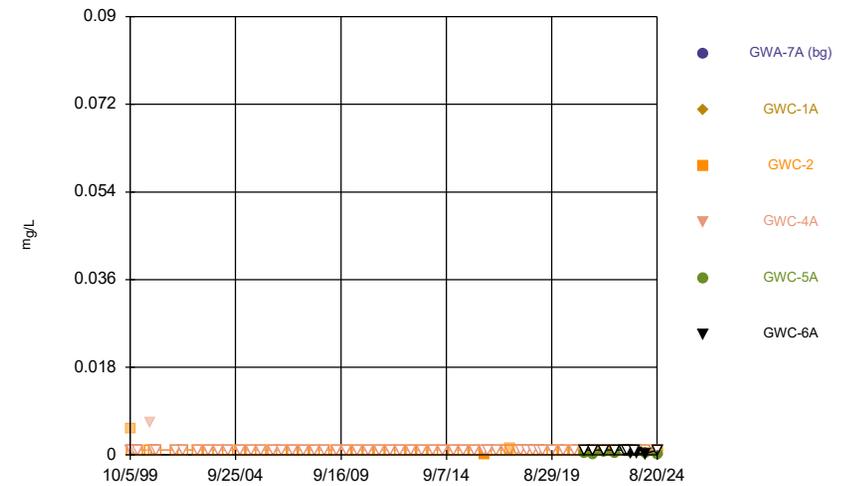
Constituent: Fluoride Analysis Run 9/30/2024 12:37 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



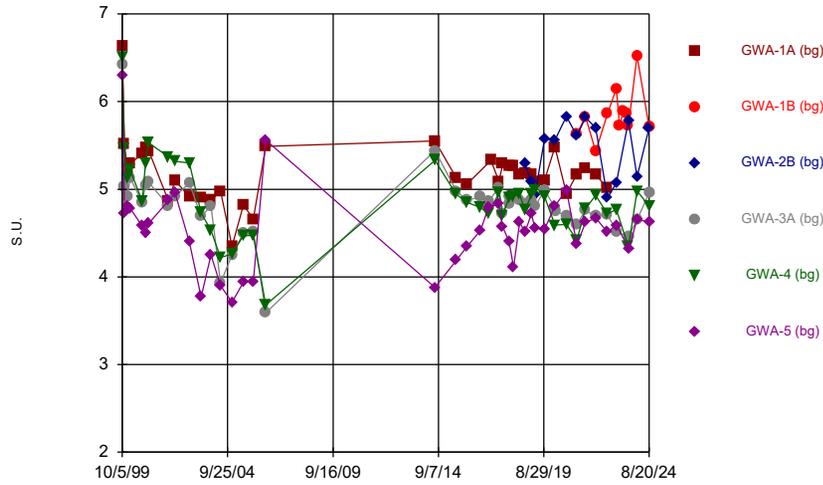
Constituent: Lead Analysis Run 9/30/2024 12:37 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



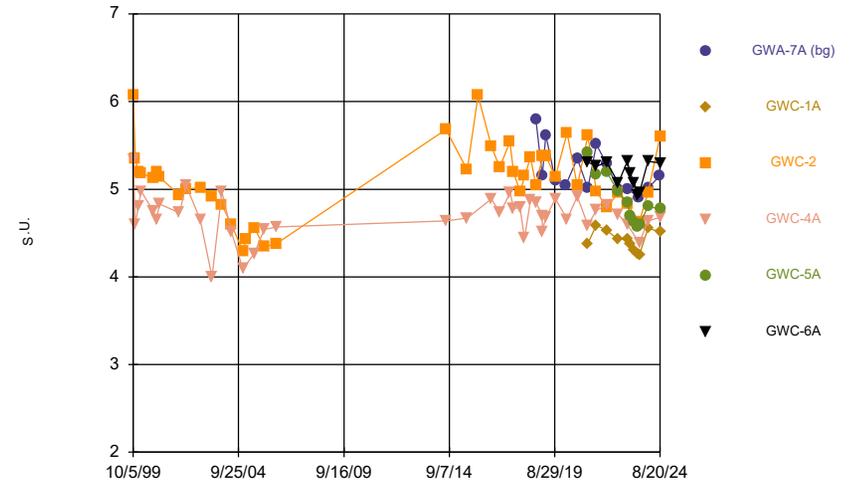
Constituent: Lead Analysis Run 9/30/2024 12:37 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



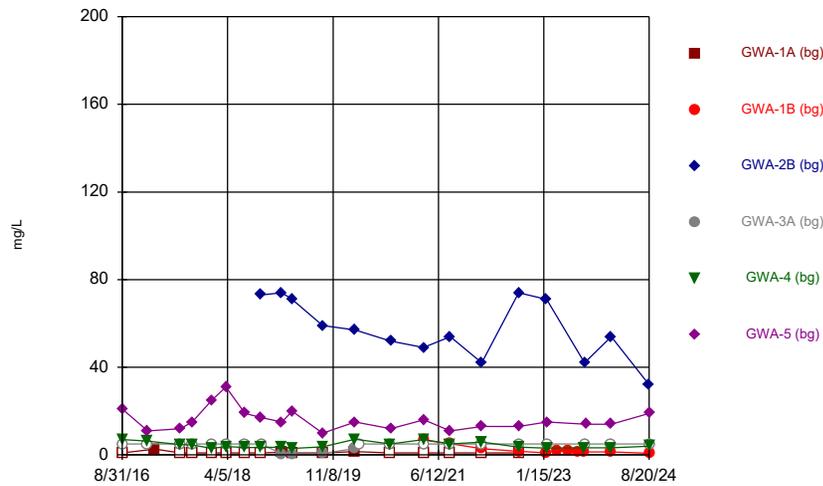
Constituent: pH Analysis Run 9/30/2024 12:37 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



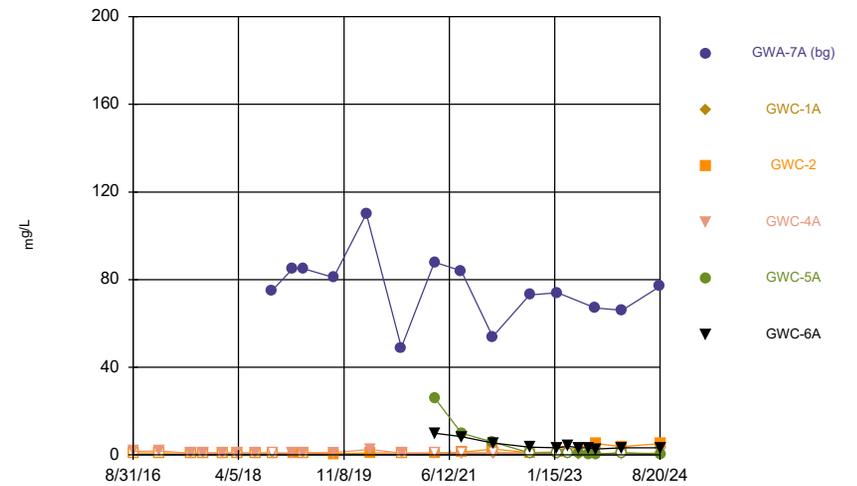
Constituent: pH Analysis Run 9/30/2024 12:37 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



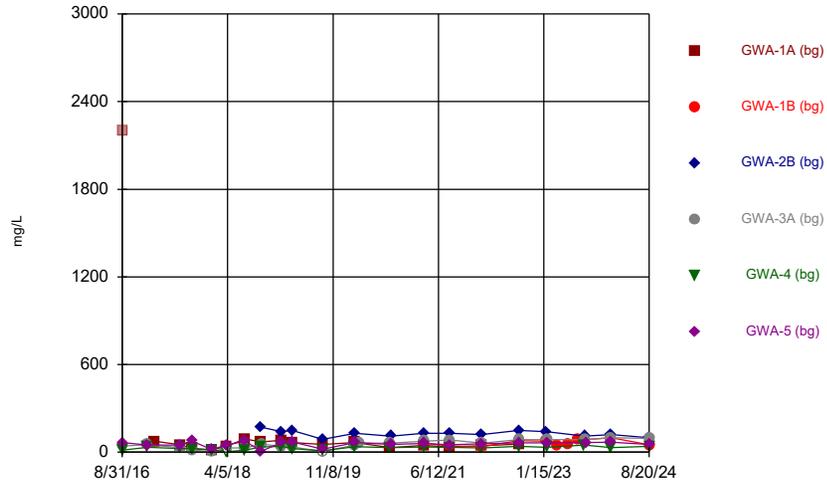
Constituent: Sulfate Analysis Run 9/30/2024 12:37 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



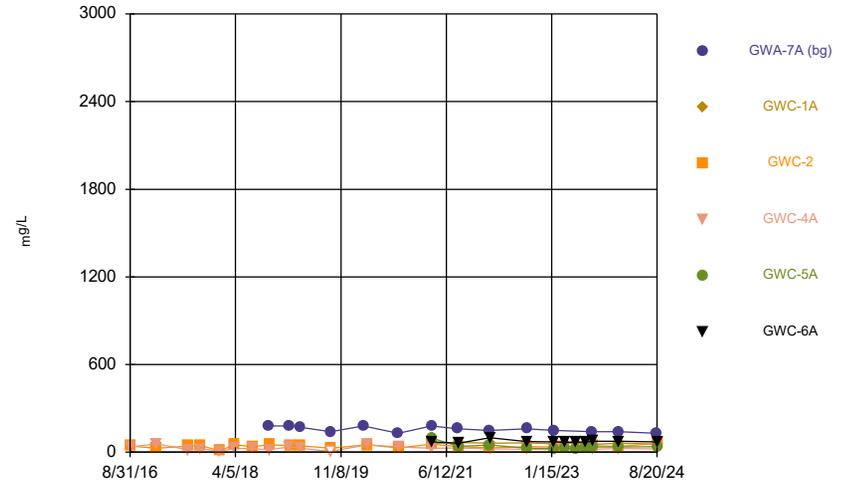
Constituent: Sulfate Analysis Run 9/30/2024 12:37 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



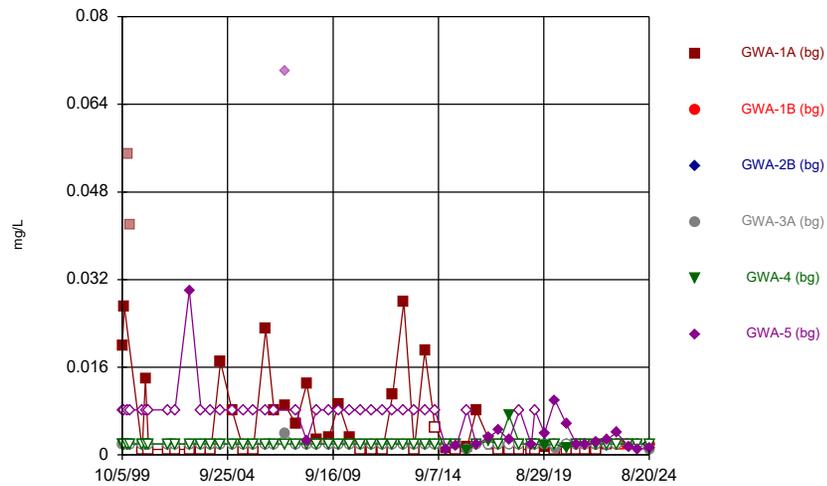
Constituent: Total Dissolved Solids Analysis Run 9/30/2024 12:37 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



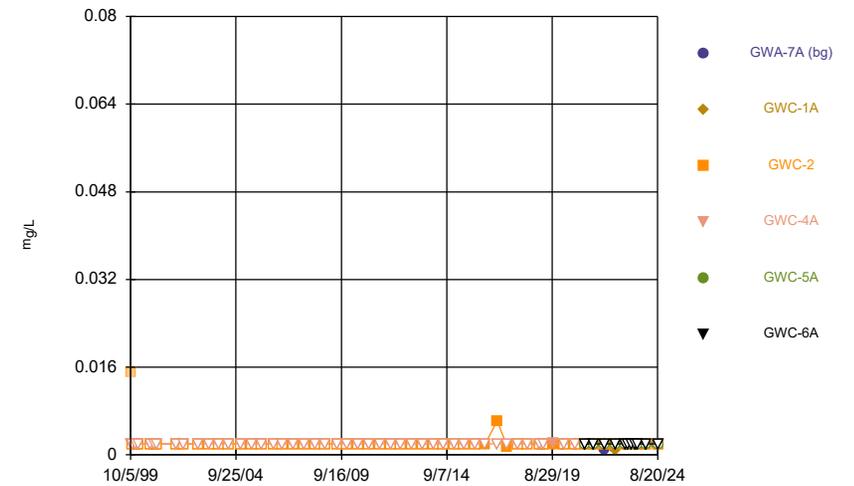
Constituent: Total Dissolved Solids Analysis Run 9/30/2024 12:37 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



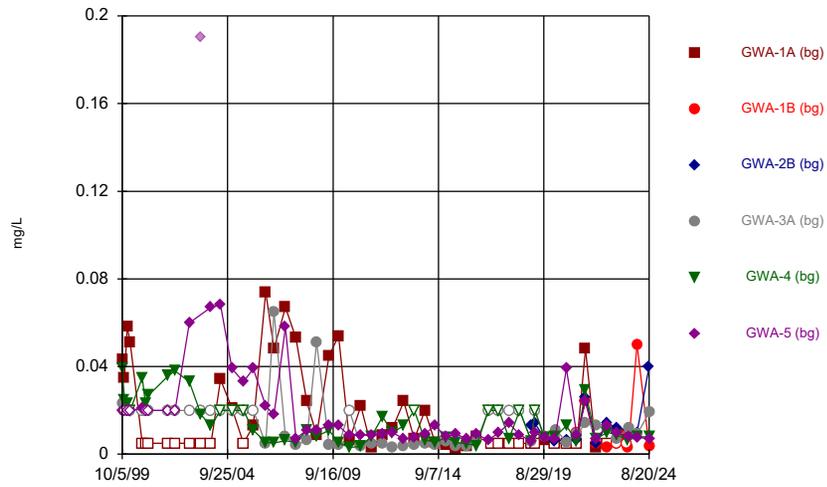
Constituent: Vanadium Analysis Run 9/30/2024 12:37 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



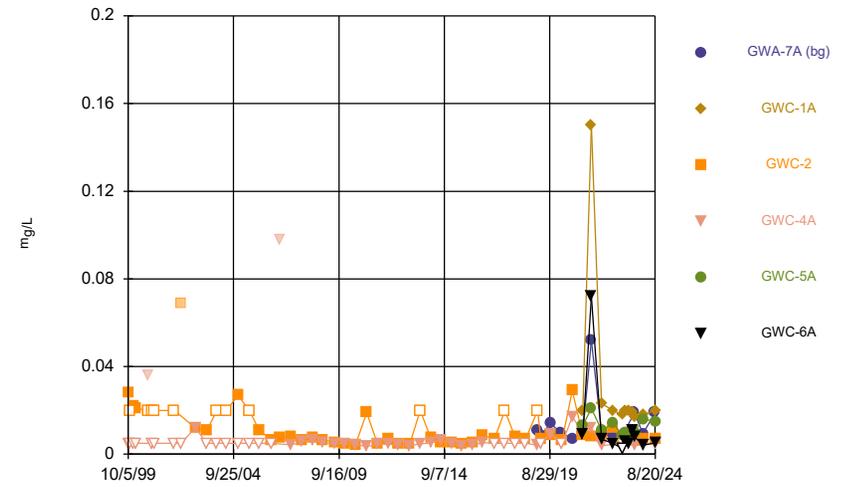
Constituent: Vanadium Analysis Run 9/30/2024 12:37 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



Constituent: Zinc Analysis Run 9/30/2024 12:37 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series



Constituent: Zinc Analysis Run 9/30/2024 12:37 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series

Constituent: Barium (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
10/5/1999	0.084			0.031	0.013	0.1
11/12/1999	0.099			0.023	0.017	0.086
12/29/1999	0.18			0.033	0.027	0.12
2/17/2000	0.12			0.026	0.023	0.13
9/13/2000	0.038			0.044	0.022	0.18
11/10/2000	0.065			0.044	0.035	0.018
1/4/2001	0.037			0.043	0.032	0.23
12/11/2001	0.027			0.041	0.032	0.12
4/4/2002	0.027			0.038	0.03	0.094
12/6/2002	0.028			0.044	0.041	0.33
6/28/2003	0.054			0.045	0.035	0.11
12/13/2003	0.027			0.039	0.029	0.057
5/28/2004	0.18			0.042	0.033	0.035
12/10/2004	0.1			0.045	0.037	0.04
6/24/2005	0.045			0.042	0.034	0.037
12/13/2005	0.048			0.043	0.03	0.039
7/12/2006	0.13			0.043	0.03	0.042
12/1/2006	0.012			0.041	0.032	0.044
6/21/2007	0.2			0.043	0.03	0.058
12/15/2007	0.14			0.045	0.034	0.073
6/21/2008					0.037	
6/22/2008	0.1			0.05		0.096
12/6/2008				0.14	0.034	0.094
12/7/2008	0.043					
7/10/2009				0.046		
7/11/2009	0.13				0.037	0.12
12/22/2009						0.089
12/23/2009	0.17			0.049	0.058	
6/23/2010				0.043	0.046	0.081
6/24/2010	0.045					
1/8/2011				0.047	0.036	0.097
1/9/2011	0.11					
7/10/2011				0.035	0.031	0.084
7/11/2011	0.022					
1/19/2012				0.05	0.045	
1/20/2012	0.043					0.099
7/12/2012				0.042	0.039	0.12
7/13/2012	0.05					
1/21/2013	0.11			0.048	0.042	0.095
7/20/2013	0.04			0.047	0.054	0.086
1/17/2014	0.082			0.049	0.057	0.14
7/12/2014	0.034			0.043	0.042	0.17
1/15/2015				0.05	0.041	
1/16/2015	0.029					0.12
7/15/2015	0.025			0.044	0.04	0.12
1/16/2016	0.026			0.048	0.04	0.12
6/22/2016	0.0374 (D)			0.0471 (D)	0.0453	0.0839
8/31/2016				0.043	0.041	0.093
9/1/2016	0.86 (o)					
1/19/2017				0.052	0.052	0.079
2/28/2017	0.027					
7/17/2017	0.022					

Time Series

Constituent: Barium (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
7/18/2017				0.046	0.037	
7/19/2017						0.085
9/20/2017	0.023			0.053		
9/21/2017					0.042	0.1
1/8/2018	0.022					
1/9/2018				0.05	0.043	0.13
3/27/2018	0.023			0.054	0.039	0.18
7/10/2018	0.024			0.056	0.043	0.14 (o)
10/8/2018	0.03		0.049		0.042	0.11
10/9/2018				0.061		
1/30/2019	0.024		0.041	0.071	0.04	0.079
3/27/2019	0.021					0.12
3/28/2019			0.035	0.068	0.041	
9/11/2019	0.022					
9/12/2019			0.049	0.073	0.044	0.086
3/10/2020	0.018		0.047	0.082	0.058	0.081
4/2/2020				0.088		
9/21/2020	0.023			0.083	0.052	
9/22/2020			0.049			0.078
3/23/2021	0.023	0.021	0.044	0.093		
3/24/2021					0.052	0.096
8/17/2021	0.025	0.022	0.047	0.095	0.056	0.094
2/7/2022			0.047			
2/8/2022	0.024	0.019		0.1	0.054	0.1
8/30/2022	0.023	0.022	0.03	0.11	0.046	0.13
1/31/2023		0.024	0.036			
2/1/2023				0.13	0.05	
2/2/2023						0.13
3/28/2023		0.018				
5/30/2023		0.019				
7/26/2023		0.026				
8/28/2023		0.023			0.047	
8/29/2023			0.045	0.12		
9/6/2023						0.12
1/23/2024		0.021	0.037	0.13	0.045	0.12
8/19/2024			0.063			
8/20/2024		0.018		0.14	0.057	0.11

Time Series

Constituent: Barium (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999			0.097	0.095		
11/12/1999			0.057	0.063		
12/29/1999			0.084	0.066		
2/17/2000			0.079	0.023		
9/13/2000			0.06	0.056		
11/10/2000			0.062	0.059		
1/4/2001			0.064	0.079		
12/11/2001			0.057	0.049		
4/4/2002			0.06	0.048		
12/6/2002			0.072	0.1		
6/28/2003			0.066	0.036		
12/13/2003			0.063	0.031		
5/28/2004			0.067	0.038		
12/10/2004			0.075	0.041		
6/24/2005			0.071	0.028		
12/13/2005			0.068	0.025		
7/12/2006			0.058	0.033		
12/1/2006			0.063	0.051		
6/21/2007			0.071	0.052		
12/15/2007			0.068	0.062		
6/21/2008				0.065		
6/22/2008			0.057			
12/6/2008			0.058	0.056		
7/11/2009			0.05	0.059		
12/23/2009			0.05	0.067		
6/23/2010			0.083	0.084		
1/8/2011			0.057	0.053		
7/10/2011			0.046	0.043		
1/20/2012			0.055	0.054		
7/12/2012			0.045	0.053		
1/21/2013			0.045	0.053		
7/20/2013			0.079	0.052		
1/17/2014			0.084	0.063		
7/11/2014				0.068		
7/12/2014			0.065			
1/15/2015			0.067			
1/16/2015				0.059		
7/15/2015			0.049	0.045		
1/17/2016			0.09	0.052		
6/22/2016			0.0806	0.0528		
8/31/2016			0.057	0.037		
1/24/2017			0.06			
1/25/2017				0.034		
7/19/2017			0.06			
7/20/2017				0.028		
9/21/2017			0.063	0.032		
1/9/2018			0.059	0.033		
3/28/2018				0.037		
3/29/2018			0.06			
7/10/2018			0.073	0.065		
10/8/2018	0.14					
10/9/2018			0.057	0.029		

Time Series

Constituent: Barium (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
1/30/2019	0.1			0.027		
1/31/2019			0.067			
3/28/2019	0.1		0.064	0.028		
9/12/2019	0.077		0.06	0.026		
3/11/2020	0.067					
3/31/2020			0.077	0.036		
9/21/2020	0.11					
9/22/2020			0.061	0.031		
3/23/2021	0.048		0.083			0.098
3/24/2021		0.29		0.031	0.055	
8/17/2021	0.054					
8/18/2021		0.28	0.062	0.032	0.052	0.09
2/7/2022	0.096					
2/8/2022			0.062		0.052	
2/9/2022		0.27		0.034		0.083
8/30/2022	0.047	0.24	0.058	0.035		
8/31/2022					0.057	0.081
1/31/2023	0.043	0.27			0.07	0.083
2/1/2023			0.063	0.034		
3/29/2023		0.27			0.071	0.082
5/31/2023		0.29			0.076	0.096
7/26/2023		0.28			0.082	0.086
8/28/2023	0.044					
8/29/2023		0.24	0.065	0.032	0.076	0.079
1/23/2024	0.041	0.24	0.057	0.03	0.087	0.079
8/19/2024	0.047					
8/20/2024		0.29	0.097	0.046	0.13	0.088

Time Series

Constituent: Beryllium (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
10/5/1999	<0.0025			<0.0025	<0.0025	<0.0025
11/12/1999	<0.0025			<0.0025	<0.0025	<0.0025
12/29/1999	<0.0025			<0.0025	<0.0025	<0.0025
2/17/2000	<0.0025			<0.0025	<0.0025	<0.0025
9/13/2000	<0.0025			<0.0025	<0.0025	<0.0025
11/10/2000	<0.0025			<0.0025	<0.0025	<0.0025
1/4/2001	<0.0025			<0.0025	<0.0025	<0.0025
12/11/2001	<0.0025			<0.0025	<0.0025	<0.0025
4/4/2002	<0.0025			<0.0025	<0.0025	<0.0025
12/6/2002	<0.0025			<0.0025	<0.0025	0.0018
6/28/2003	<0.0025			<0.0025	<0.0025	0.0036
12/13/2003	<0.0025			<0.0025	<0.0025	0.0019
5/28/2004	<0.0025			<0.0025	<0.0025	<0.0025
12/10/2004	0.0028			0.0024	0.0023	0.0035
6/24/2005	<0.0025			<0.0025	<0.0025	<0.0025
12/13/2005	<0.0025			<0.0025	<0.0025	<0.0025
7/12/2006	0.0013			<0.0025	<0.0025	0.0013
12/1/2006	<0.0025			<0.0025	<0.0025	<0.0025
6/21/2007	<0.0025			<0.0025	<0.0025	<0.0025
12/15/2007	<0.0025			<0.0025	<0.0025	<0.0025
6/21/2008					<0.0025	
6/22/2008	<0.0025			<0.0025		<0.0025
12/6/2008				<0.0025	<0.0025	<0.0025
12/7/2008	<0.0025					
7/10/2009				<0.0025		
7/11/2009	<0.0025				<0.0025	<0.0025
12/22/2009						<0.0025
12/23/2009	<0.0025			<0.0025	<0.0025	
6/23/2010				<0.0025	<0.0025	<0.0025
6/24/2010	<0.0025					
1/8/2011				<0.0025	<0.0025	<0.0025
1/9/2011	<0.0025					
7/10/2011				<0.0025	<0.0025	<0.0025
7/11/2011	<0.0025					
1/19/2012				<0.0025	<0.0025	
1/20/2012	<0.0025					<0.0025
7/12/2012				<0.0025	<0.0025	<0.0025
7/13/2012	<0.0025					
1/21/2013	<0.0025			<0.0025	<0.0025	<0.0025
7/20/2013	<0.0025			<0.0025	<0.0025	<0.0025
1/17/2014	<0.0013 (J)			<0.0025	<0.0013 (J)	<0.0013 (J)
7/12/2014	<0.0013 (J)			<0.0025	<0.0013 (J)	<0.0013 (J)
1/15/2015				0.00039 (J)	0.0002 (J)	
1/16/2015	0.00022 (J)					0.00043 (J)
7/15/2015	0.00015 (J)			0.00031 (J)	0.00018 (J)	0.00064 (J)
1/16/2016	0.00011 (J)			0.00034 (J)	0.00013 (J)	0.00039 (J)
6/22/2016	0.00025 (JD)			0.0004 (J)	0.0001 (J)	0.0002 (J)
8/31/2016				0.00035 (J)	<0.0025	<0.0025
9/1/2016	0.0084 (o)					
1/19/2017				<0.0025	<0.0025	<0.0025
2/28/2017	<0.0025					
7/17/2017	<0.0025					

Time Series

Constituent: Beryllium (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
7/18/2017				0.00038 (J)	<0.0025	
7/19/2017						<0.0025
9/20/2017	<0.0025			0.00039 (J)		
9/21/2017					<0.0025	<0.0025
1/8/2018	<0.0025					
1/9/2018				<0.0025	<0.0025	<0.0025
3/27/2018	<0.0025			<0.0025	<0.0025	<0.0025
7/10/2018	<0.0025			0.00038 (J)	<0.0025	<0.0025
10/8/2018	<0.0025		0.0014 (J)		<0.0025	<0.0025
10/9/2018				<0.0025		
1/30/2019	0.00026 (J)		0.0019 (J)	0.00051 (J)	0.00019 (J)	0.00024 (J)
3/27/2019	<0.0025					<0.0025
3/28/2019			0.0017 (J)	0.00046 (J)	<0.0025	
9/11/2019	0.00019 (J)					
9/12/2019			0.00088 (J)	0.00084 (J)	<0.0025	0.00036 (J)
3/10/2020	0.00018 (J)		0.00087 (J)	0.00058 (J)	0.00029 (J)	0.00028 (J)
4/2/2020				0.00062 (J)		
9/21/2020	0.0002 (J)			0.00054 (J)	<0.0025	
9/22/2020			0.00042 (J)			<0.0025
3/23/2021	0.00021 (J)	<0.0025	0.00071 (J)	0.00063 (J)		
3/24/2021					0.00019 (J)	0.00026 (J)
8/17/2021	<0.0025	<0.0025	0.00068 (J)	0.00049 (J)	<0.0025	0.00018 (J)
2/7/2022			0.00071 (J)			
2/8/2022	<0.0025	<0.0025		0.00061 (J)	<0.0025	<0.0025
8/30/2022	0.00035 (J)	<0.0025	0.0019 (J)	0.00083 (J)	0.00028 (J)	<0.0025
1/31/2023		<0.0025	0.0018 (J)			
2/1/2023				0.00078 (J)	0.00024 (J)	
2/2/2023						0.0005 (J)
3/28/2023		<0.0025				
5/30/2023		<0.0025				
7/26/2023		<0.0025				
8/28/2023		<0.0025			0.00024 (J)	
8/29/2023			0.00063 (J)	0.00071 (J)		
9/6/2023						0.00041 (J)
1/23/2024		<0.0025	0.0014 (J)	0.00081 (J)	0.00021 (J)	0.00035 (J)
8/19/2024			0.0009 (J)			
8/20/2024		<0.0025		0.00081 (J)	0.00021 (J)	0.00034 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999			<0.0025	<0.0025		
11/12/1999			<0.0025	<0.0025		
12/29/1999			<0.0025	<0.0025		
2/17/2000			<0.0025	<0.0025		
9/13/2000			<0.0025	<0.0025		
11/10/2000			<0.0025	<0.0025		
1/4/2001			<0.0025	<0.0025		
12/11/2001			<0.0025	<0.0025		
4/4/2002			<0.0025	<0.0025		
12/6/2002			<0.0025	<0.0025		
6/28/2003			<0.0025	<0.0025		
12/13/2003			<0.0025	<0.0025		
5/28/2004			<0.0025	<0.0025		
12/10/2004			0.0023	0.0023		
6/24/2005			<0.0025	<0.0025		
12/13/2005			<0.0025	<0.0025		
7/12/2006			0.0013	0.0013		
12/1/2006			<0.0025	<0.0025		
6/21/2007			<0.0025	<0.0025		
12/15/2007			<0.0025	<0.0025		
6/21/2008				<0.0025		
6/22/2008			<0.0025			
12/6/2008			<0.0025	<0.0025		
7/11/2009			<0.0025	<0.0025		
12/23/2009			<0.0025	<0.0025		
6/23/2010			<0.0025	<0.0025		
1/8/2011			<0.0025	<0.0025		
7/10/2011			<0.0025	<0.0025		
1/20/2012			<0.0025	<0.0025		
7/12/2012			<0.0025	<0.0025		
1/21/2013			<0.0025	<0.0025		
7/20/2013			<0.0025	<0.0025		
1/17/2014			<0.0013 (J)	<0.0025		
7/11/2014				<0.0013 (J)		
7/12/2014			<0.0013 (J)			
1/15/2015			0.00019 (J)			
1/16/2015				0.00012 (J)		
7/15/2015			0.00018 (J)	<0.0025		
1/17/2016			0.00011 (J)	<0.0025		
6/22/2016			0.0002 (J)	<0.0025		
8/31/2016			<0.0025	<0.0025		
1/24/2017			<0.0025			
1/25/2017				<0.0025		
7/19/2017			<0.0025			
7/20/2017				<0.0025		
9/21/2017			<0.0025	<0.0025		
1/9/2018			<0.0025	<0.0025		
3/28/2018				<0.0025		
3/29/2018			<0.0025			
7/10/2018			<0.0025	<0.0025		
10/8/2018	<0.0025					
10/9/2018			<0.0025	<0.0025		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
1/30/2019	0.00047 (J)			7E-05 (J)		
1/31/2019			6.5E-05 (J)			
3/28/2019	0.00034 (J)		<0.0025	<0.0025		
9/12/2019	0.00097 (J)		<0.0025	0.00028 (J)		
3/11/2020	0.00078 (J)					
3/31/2020			<0.0025	<0.0025		
9/21/2020	<0.0025					
9/22/2020			0.00025 (J)	<0.0025		
3/23/2021	0.00066 (J)		0.00018 (J)			<0.0025
3/24/2021		0.00039 (J)		<0.0025	<0.0025	
8/17/2021	0.00047 (J)					
8/18/2021		0.00041 (J)	0.0002 (J)	<0.0025	<0.0025	<0.0025
2/7/2022	<0.0025					
2/8/2022			<0.0025	<0.0025		
2/9/2022		0.0004 (J)		<0.0025		0.00032 (J)
8/30/2022	0.0007 (J)	0.00042 (J)	0.00038 (J)	<0.0025		
8/31/2022				<0.0025		0.00029 (J)
1/31/2023	0.00056 (J)	0.00043 (J)			0.00023 (J)	0.00031 (J)
2/1/2023			0.00024 (J)	<0.0025		
3/29/2023		0.00046 (J)			0.00024 (J)	0.00029 (J)
5/31/2023		0.00039 (J)			0.00024 (J)	0.00032 (J)
7/26/2023		0.00041 (J)			0.00032 (J)	0.00031 (J)
8/28/2023	0.0005 (J)					
8/29/2023		0.00038 (J)	0.00031 (J)	<0.0025	0.00031 (J)	0.00026 (J)
1/23/2024	0.00045 (J)	0.00041 (J)	0.00027 (J)	<0.0025	0.00033 (J)	0.00024 (J)
8/19/2024	0.00048 (J)					
8/20/2024		0.0005 (J)	0.00026 (J)	<0.0025	0.00051 (J)	0.00033 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
8/31/2016				<0.08	<0.08	0.073
9/1/2016	0.029 (J)					
1/19/2017				<0.08	0.027 (J)	0.036 (J)
2/28/2017	<0.08					
7/17/2017	<0.08					
7/18/2017				<0.08	<0.08	
7/19/2017						0.07
9/20/2017	<0.08			<0.08		
9/21/2017					<0.08	0.07
1/8/2018	<0.08					
1/9/2018				<0.08	<0.08	0.042 (J)
3/27/2018	<0.08			<0.08	<0.08	0.037 (J)
7/10/2018	<0.08			<0.08	<0.08	0.042 (J)
10/8/2018	<0.08		0.76		<0.08	0.044 (J)
10/9/2018				<0.08		
1/30/2019	<0.08		0.77	<0.08	<0.08	0.03 (J)
3/27/2019	<0.08					0.036 (J)
3/28/2019			0.83	0.024 (J)	<0.08	
9/11/2019	<0.08					
9/12/2019			0.65	<0.08	<0.08	0.048 (J)
3/10/2020	<0.08		0.64	0.059 (J)	<0.08	0.066 (J)
4/2/2020				0.084		
9/21/2020	0.11			0.11	0.073 (J)	
9/22/2020			0.73			0.097
3/23/2021	<0.08	0.1	0.57	0.088		
3/24/2021					<0.08	0.048 (J)
8/17/2021	0.049 (J)	0.11	0.68	0.098	0.045 (J)	0.067 (J)
2/7/2022			0.54			
2/8/2022	<0.08	0.084		0.077 (J)	<0.08	<0.08
8/30/2022	<0.08	0.12	0.98	0.1	<0.08	<0.08
1/31/2023		0.044 (J)	0.99			
2/1/2023				0.087	0.023 (J)	
2/2/2023						0.039 (J)
3/28/2023		0.072 (J)				
5/30/2023		0.068 (J)				
7/26/2023		0.032 (J)				
8/28/2023		0.035 (J)			<0.08	
8/29/2023			0.53	0.078 (J)		
9/6/2023						0.032 (J)
1/23/2024		0.029 (J)	0.5	0.073 (J)	0.033 (J)	0.051 (J)
8/19/2024			0.37			
8/20/2024		0.055 (J)		0.072 (J)	0.023 (J)	0.053 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/31/2016			0.023 (J)	<0.08		
1/24/2017			<0.021			
1/25/2017				0.023 (J)		
7/19/2017			0.026 (J)			
7/20/2017				<0.08		
9/21/2017			0.025 (J)	<0.08		
1/9/2018			0.023 (J)	<0.08		
3/28/2018				<0.08		
3/29/2018			0.035 (J)			
7/10/2018			0.044 (J)	<0.08		
10/8/2018	1.3					
10/9/2018			0.043 (J)	<0.08		
1/30/2019	1.5			<0.08		
1/31/2019			0.04 (J)			
3/28/2019	1.4		0.062	<0.08		
9/12/2019	1.6		0.045 (J)	<0.08		
3/11/2020	1.9					
3/31/2020			0.046 (J)	<0.08		
9/21/2020	0.61					
9/22/2020			0.083	0.053 (J)		
3/23/2021	1.5		0.07 (J)			0.043 (J)
3/24/2021		0.36		<0.08	<0.08	
8/17/2021	1.4					
8/18/2021		0.25	0.095	0.043 (J)	<0.08	0.077 (J)
2/7/2022	0.6					
2/8/2022			0.094		<0.08	
2/9/2022		0.13		<0.08		<0.08
8/30/2022	1.2	0.099	0.085	<0.08		
8/31/2022					<0.08	<0.08
1/31/2023	1.3	0.094			0.033 (J)	0.047 (J)
2/1/2023			0.091	<0.08		
3/29/2023		0.063 (J)			0.024 (J)	0.046 (J)
5/31/2023		0.054 (J)			<0.08	0.036 (J)
7/26/2023		0.054 (J)			<0.08	0.039 (J)
8/28/2023	1.2					
8/29/2023		0.042 (J)	0.1	<0.08	<0.08	0.033 (J)
1/23/2024	1.2	0.06 (J)	0.092	<0.08	<0.08	0.047 (J)
8/19/2024	1.2					
8/20/2024		0.24	0.11	<0.08	<0.08	0.034 (J)

Time Series

Constituent: Calcium (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
8/31/2016				1.5	0.88	3.7
9/1/2016	26 (o)					
1/19/2017				1.8	1.1	2
2/28/2017	2.7					
7/17/2017	1.7					
7/18/2017				1.7	0.86	
7/19/2017						2.6
9/20/2017	1.5			1.7		
9/21/2017					0.9	2.7
1/8/2018	1.7					
1/9/2018				1.9	1	4.1
3/27/2018	1.7			1.9	0.89	4.8
7/10/2018	1.7			1.9	0.99	3.7
10/8/2018	1.6		17		1.1	3.2
10/9/2018				2.2		
1/30/2019	1.9		16	2.4	1	1.7
3/27/2019	1.6					3.1
3/28/2019			16	2.4	0.98	
9/11/2019	1.6					
9/12/2019			15	2.3	0.84	1.9
3/10/2020	2		14	2.8	1.1	2.9
4/2/2020				3		
9/21/2020	1.8			3.1	1.4	
9/22/2020			16			2.9
3/23/2021	1.8	4	15	3.6		
3/24/2021					1.3	3.1
8/17/2021	1.8	3.9	15	3.5	1.4	2.9
2/7/2022			12			
2/8/2022	1.7	2.7		3.3	1.3	2.8
8/30/2022	1.8	5.2	15	3.9	1.2	3.4
1/31/2023		6.8	16			
2/1/2023				4.6	1.4	
2/2/2023						3.7
3/28/2023		3				
5/30/2023		3.3				
7/26/2023		7.5				
8/28/2023		8.6			1.3	
8/29/2023			13	4.7		
9/6/2023						3.7
1/23/2024		8.3	12	4.6	1.2	3.2
8/19/2024			11			
8/20/2024		2.7		5	1.4	2.8

Time Series

Constituent: Calcium (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/31/2016			5.5	0.42		
1/24/2017			2.9			
1/25/2017				0.37		
7/19/2017			4.2			
7/20/2017				0.29		
9/21/2017			2.9	0.3		
1/9/2018			1.7	0.38		
3/28/2018				0.44		
3/29/2018			2.2			
7/10/2018			3.9	2 (o)		
10/8/2018	17					
10/9/2018			1.7	0.34		
1/30/2019	15			0.34		
1/31/2019			4.8			
3/28/2019	18		4.9	0.3		
9/12/2019	19		2	0.3 (J)		
3/11/2020	20					
3/31/2020			8.3	0.48 (J)		
9/21/2020	13					
9/22/2020			2.1	0.51		
3/23/2021	19		9.2			5
3/24/2021		3.3		0.46 (J)	6.1	
8/17/2021	17					
8/18/2021		2.9	1.7	0.37 (J)	2.7	3.8
2/7/2022	11					
2/8/2022			1.3		2.1	
2/9/2022		2.5		0.39 (J)		3.2
8/30/2022	14	2.3	1.4	0.39 (J)		
8/31/2022					0.98	3.2
1/31/2023	15	2.6			1	3.1
2/1/2023			1.3	0.34 (J)		
3/29/2023		2.6			0.83	3
5/31/2023		2.8			1.1	3.8
7/26/2023		2.7			1.2	3.3
8/28/2023	14					
8/29/2023		2.5	1.6	0.37 (J)	1.1	3.2
1/23/2024	12	2.3	1.4	0.3 (J)	0.96	3
8/19/2024	13					
8/20/2024		2.6	10	0.36 (J)	1.6	3.2

Time Series

Constituent: Chloride (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
8/31/2016				6.8	3.7	7.1
9/1/2016	8					
1/19/2017				6.9	4.6	3.3
2/28/2017	8.5					
7/17/2017	7.8					
7/18/2017				7.4	4.2	
7/19/2017						5.8
9/20/2017	8			7.6		
9/21/2017					4.4	6.2
1/8/2018	7.9					
1/9/2018				8.6	4.4	9.9
3/27/2018	8			9.4	4.9	13
7/10/2018	7.8			11	5.5	17
10/8/2018	8.5		7.3		6.6	16
10/9/2018				14		
1/30/2019	8.2		7.3	15	6.9	6.5
3/27/2019	8.1					9.1
3/28/2019			6.1	15	5.7	
9/11/2019	7.1					
9/12/2019			7.6	16	6.1	9.1
3/10/2020	8.1		8	19	5	3.7
4/2/2020				20		
9/21/2020	8.1			19	5.4	
9/22/2020			8			6.3
3/23/2021	8.6	9.9	7.8	22		
3/24/2021					6.2	7.4
8/17/2021	9.1	10	7.7	23	6.1	11
2/7/2022			6.7			
2/8/2022	8.6	9.5		23	6.4	12
8/30/2022	8.5	7.7	5.9	26	4.7	15
1/31/2023		8	6.7			
2/1/2023				30	4.5	
2/2/2023						15
3/28/2023		10				
5/30/2023		9.1				
7/26/2023		7.3				
8/28/2023		6.8			4.6	
8/29/2023			7.9	29		
9/6/2023						14
1/23/2024		6.3	9.6	33	5.1	16
8/19/2024			11			
8/20/2024		9.2		33	7.9	6.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/31/2016			5.6	19		
1/24/2017			5.4			
1/25/2017				15		
7/19/2017			5.6			
7/20/2017				14		
9/21/2017			5.5	14		
1/9/2018			5.6	15		
3/28/2018				14		
3/29/2018			5.3			
7/10/2018			5.2	13		
10/8/2018	6.8					
10/9/2018			5.4	13		
1/30/2019	7.1			12		
1/31/2019			5.2			
3/28/2019	6.1		4.6	11		
9/12/2019	6.8		5.2	9.9		
3/11/2020	6.9					
3/31/2020			5.7	14		
9/21/2020	6.5					
9/22/2020			5.4	11		
3/23/2021	7.6		5.2			11
3/24/2021		15		10	15	
8/17/2021	8.3					
8/18/2021		16	5.7	7.3	7.8	12
2/7/2022	7.6					
2/8/2022			5		5.9	
2/9/2022		15		5.3		9.5
8/30/2022	7.5	14	4.8	4.8		
8/31/2022					4.5	9.6
1/31/2023	7.9	14			4.5	9.7
2/1/2023			4.8	4.3		
3/29/2023		14			5	11
5/31/2023		13			4.8	9.4
7/26/2023		14			5.4	10
8/28/2023	7.1					
8/29/2023		13	4.8	4.1	5.2	9.5
1/23/2024	7.2	14	5	4.3	6.4	10
8/19/2024	8.1					
8/20/2024		15	5	4.9	10	11

Time Series

Constituent: Chromium (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
10/5/1999	0.023			<0.002	<0.002	<0.002
11/12/1999	0.03			<0.002	<0.002	<0.002
12/29/1999	0.059 (o)			<0.002	<0.002	<0.002
2/17/2000	0.048 (o)			<0.002	<0.002	<0.002
9/13/2000	<0.0025			<0.002	<0.002	<0.002
11/10/2000	0.018			<0.002	<0.002	<0.002
1/4/2001	<0.0025			<0.002	<0.002	<0.002
12/11/2001	<0.0025			<0.002	<0.002	<0.002
4/4/2002	<0.0025			<0.002	<0.002	<0.002
12/6/2002	0.0046			<0.002	0.0037	0.027
6/28/2003	0.0082			0.0053	0.0039	0.0051
12/13/2003	<0.0025			<0.002	<0.002	<0.002
5/28/2004	0.016			0.0027	<0.002	0.0031
12/10/2004	0.0087			0.004	<0.002	0.0067
6/24/2005	0.0069			0.0031	<0.002	<0.002
12/13/2005	0.0075			0.0031	<0.002	<0.002
7/12/2006	0.027			0.0025	0.023	<0.002
12/1/2006	<0.0025			0.0037	0.0017	<0.002
6/21/2007	0.012			0.0053	0.0027	0.0021
12/15/2007	0.0085			0.0044	0.0026	0.0022
6/21/2008					0.0021	
6/22/2008	0.021			0.0059		0.0019
12/6/2008				0.0031	<0.002	<0.002
12/7/2008	0.01					
7/10/2009				0.0029		
7/11/2009	0.0073				<0.002	<0.002
12/22/2009						0.0032
12/23/2009	0.013			0.0025	<0.002	
6/23/2010				0.0013	<0.002	<0.002
6/24/2010	0.0076					
1/8/2011				0.0017	<0.002	0.0019
1/9/2011	0.023					
7/10/2011				<0.002	<0.002	<0.002
7/11/2011	0.0042					
1/19/2012				<0.002	<0.002	
1/20/2012	0.009					<0.002
7/12/2012				<0.002	<0.002	0.0044
7/13/2012	0.013					
1/21/2013	0.032			0.0014	<0.002	<0.002
7/20/2013	0.01			0.0021	<0.002	0.0017
1/17/2014	0.024			0.0023	<0.002	<0.0013 (J)
7/12/2014	0.0069			<0.0013 (J)	<0.002	0.0014
1/15/2015				<0.002	<0.002	
1/16/2015	0.0064					0.0011 (J)
7/15/2015	0.0051			<0.002	<0.002	0.0016
1/16/2016	0.0066			0.0025	<0.002	<0.002
6/22/2016	0.00815 (JD)			0.00255 (JD)	0.0005 (J)	0.002 (J)
8/31/2016				0.0042	<0.002	0.002 (J)
9/1/2016	0.12 (o)					
1/19/2017				0.0039	<0.002	0.002 (J)
2/28/2017	0.0012 (J)					
7/17/2017	0.003					

Time Series

Constituent: Chromium (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
7/18/2017				0.0018 (J)	<0.002	
7/19/2017						0.0017 (J)
9/20/2017	0.0025			0.0026		
9/21/2017					<0.002	0.0021 (J)
1/8/2018	0.0038					
1/9/2018				0.0038	0.0087	0.0019 (J)
3/27/2018	0.0044			0.0037	<0.002	<0.002
7/10/2018	0.0045			0.0022 (J)	<0.002	0.0012 (J)
10/8/2018	0.0054		<0.002		<0.002	0.0015 (J)
10/9/2018				0.0047		
1/30/2019	0.0061		0.003	0.005	0.00088 (J)	0.0014 (J)
3/27/2019	0.0044					<0.002
3/28/2019			0.0017 (J)	0.0037	<0.002	
9/11/2019	0.0076					
9/12/2019			<0.002	<0.002	<0.002	0.0032
3/10/2020	0.0041		<0.002	<0.002	<0.002	0.0031
4/2/2020				0.0031		
9/21/2020	0.0049			<0.002	<0.002	
9/22/2020			<0.002			0.0017 (J)
3/23/2021	0.0047	<0.002	<0.002	0.0022		
3/24/2021					<0.002	<0.002
8/17/2021	0.0046	<0.002	<0.002	<0.002	<0.002	<0.002
2/7/2022			<0.002			
2/8/2022	0.0051	<0.002		<0.002	<0.002	0.003
8/30/2022	0.0047	<0.002	0.0028	0.0084	<0.002	<0.002
1/31/2023		<0.002	0.0022			
2/1/2023				0.0016 (J)	0.0016 (J)	
2/2/2023						0.0023
3/28/2023		<0.002				
5/30/2023		<0.002				
7/26/2023		<0.002				
8/28/2023		<0.002			<0.002	
8/29/2023			<0.002	<0.002		
9/6/2023						0.0016 (J)
1/23/2024		<0.002	0.0015 (J)	0.0016 (J)	<0.002	<0.002
8/19/2024			<0.002			
8/20/2024		<0.002		<0.002	<0.002	0.0012 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999			0.017	<0.002		
11/12/1999			<0.005	<0.002		
12/29/1999			0.011	<0.002		
2/17/2000			0.013	<0.002		
9/13/2000			<0.005	<0.002		
11/10/2000			<0.005	<0.002		
1/4/2001			<0.005	<0.002		
12/11/2001			<0.005	<0.002		
4/4/2002			<0.005	<0.002		
12/6/2002			<0.005	<0.002		
6/28/2003			0.0027	0.061 (o)		
12/13/2003			<0.005	<0.002		
5/28/2004			<0.005	<0.002		
12/10/2004			0.74 (o)	0.0059 (o)		
2/5/2005			<0.005			
6/24/2005			0.0023	<0.002		
12/13/2005			0.0031	<0.002		
7/12/2006			0.0016	<0.002		
12/1/2006			0.0022	<0.002		
6/21/2007			0.002	<0.002		
12/15/2007			0.0029	<0.002		
6/21/2008				<0.002		
6/22/2008			0.0023			
12/6/2008			0.0023	<0.002		
7/11/2009			0.0015	<0.002		
12/23/2009			0.0014	<0.002		
6/23/2010			0.0018	<0.002		
1/8/2011			0.0033	<0.002		
7/10/2011			0.0028	<0.002		
1/20/2012			<0.005	<0.002		
7/12/2012			0.0025	<0.002		
1/21/2013			0.0022	<0.002		
7/20/2013			0.0075	<0.002		
1/17/2014			0.0039	<0.002		
7/11/2014				<0.002		
7/12/2014			0.0031			
1/15/2015			0.0026			
1/16/2015				<0.002		
7/15/2015			0.0032	<0.002		
1/17/2016			0.0029	<0.002		
6/22/2016			0.0036 (J)	<0.002		
8/31/2016			0.0027	<0.002		
1/24/2017			0.0034			
1/25/2017				<0.002 (D)		
7/19/2017			0.0028			
7/20/2017				<0.002		
9/21/2017			0.0035	<0.002		
1/9/2018			0.003	<0.002		
3/28/2018				0.0019 (J)		
3/29/2018			0.0032			
7/10/2018			0.0033	0.0029		
10/8/2018	<0.002					

Time Series

Constituent: Chromium (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/9/2018			0.0039	<0.002		
1/30/2019	<0.002			<0.002		
1/31/2019			0.0061			
3/28/2019	<0.002		0.0049	<0.002		
9/12/2019	<0.002		0.0048	0.0028		
3/11/2020	<0.002					
3/31/2020			0.005	<0.002		
9/21/2020	<0.002					
9/22/2020			0.0036	<0.002		
3/23/2021	<0.002		0.0048			<0.002
3/24/2021		<0.002		<0.002	<0.002	
8/17/2021	<0.002					
8/18/2021		<0.002	0.0064	<0.002	<0.002	<0.002
2/7/2022	<0.002					
2/8/2022			0.0046		<0.002	
2/9/2022		<0.002		<0.002		<0.002
8/30/2022	<0.002	<0.002	0.005	<0.002		
8/31/2022					0.0021	<0.002
1/31/2023	<0.002	<0.002			<0.002	<0.002
2/1/2023			0.0037	<0.002		
3/29/2023		0.0016 (J)			<0.002	0.0014 (J)
5/31/2023		0.0012 (J)			<0.002	0.0021
7/26/2023		<0.002			<0.002	<0.002
8/28/2023	0.0016 (J)					
8/29/2023		<0.002	0.0037	<0.002	<0.002	0.0013 (J)
1/23/2024	<0.002	<0.002	0.0017 (J)	<0.002	<0.002	<0.002
8/19/2024	<0.002					
8/20/2024		<0.002	0.0027	<0.002	<0.002	0.0013 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
10/5/1999	<0.0025			<0.0025	<0.0025	<0.0025
11/12/1999	<0.0025			<0.0025	<0.0025	<0.0025
12/29/1999	<0.0025			<0.0025	<0.0025	<0.0025
2/17/2000	<0.0025			<0.0025	<0.0025	<0.0025
9/13/2000	<0.0025			<0.0025	<0.0025	<0.0025
11/10/2000	<0.0025			<0.0025	<0.0025	<0.0025
1/4/2001	<0.0025			<0.0025	<0.0025	<0.0025
12/11/2001	<0.0025			<0.0025	<0.0025	<0.0025
4/4/2002	<0.0025			<0.0025	<0.0025	<0.0025
12/6/2002	<0.0025			<0.0025	<0.0025	<0.0025
6/28/2003	<0.0025			<0.0025	<0.0025	0.018 (o)
12/13/2003	<0.0025			<0.0025	<0.0025	<0.0025
5/28/2004	<0.0025			<0.0025	<0.0025	<0.0025
12/10/2004	<0.0025			<0.0025	<0.0025	0.007
6/24/2005	<0.0025			<0.0025	<0.0025	0.0072
12/13/2005	<0.0025			<0.0025	<0.0025	0.0062
7/12/2006	0.0032			<0.0025	<0.0025	0.0048
12/1/2006	0.012 (o)			<0.0025	<0.0025	0.0032
6/21/2007	<0.0025			0.0025	<0.0025	0.0037
12/15/2007	<0.0025			<0.0025	<0.0025	<0.0025
6/21/2008					<0.0025	
6/22/2008	0.0031			<0.0025		0.0025
12/6/2008				<0.0025	<0.0025	0.0025
12/7/2008	<0.0025					
7/10/2009				<0.0025		
7/11/2009	<0.0025				<0.0025	<0.0025
12/22/2009						0.0025
12/23/2009	<0.0025			<0.0025	<0.0025	
6/23/2010				<0.0025	<0.0025	<0.0025
6/24/2010	<0.0025					
1/8/2011				<0.0025	<0.0025	0.0026
1/9/2011	0.0031					
7/10/2011				<0.0025	<0.0025	<0.0025
7/11/2011	<0.0025					
1/19/2012				<0.0025	<0.0025	
1/20/2012	<0.0025					<0.0025
7/12/2012				<0.0025	<0.0025	0.002
7/13/2012	0.0015					
1/21/2013	0.0035			<0.0025	<0.0025	0.0014
7/20/2013	<0.0025			<0.0025	<0.0025	<0.0025
1/17/2014	0.0027			<0.0013 (J)	<0.0013 (J)	0.0019
7/12/2014	<0.0013 (J)			<0.0013 (J)	<0.0013 (J)	0.0026
1/15/2015				0.00086 (J)	0.00084 (J)	
1/16/2015	<0.0025					0.0021
7/15/2015	<0.0025			0.00087 (J)	0.00083 (J)	0.0023
1/16/2016	0.00059 (J)			0.0011 (J)	0.00092 (J)	0.002
6/22/2016	0.00085 (JD)			0.0009 (J)	0.0005 (J)	0.0007 (J)
8/31/2016				0.00095 (J)	0.00055 (J)	0.001 (J)
9/1/2016	0.023 (o)					
1/19/2017				0.00087 (J)	0.00041 (J)	0.00046 (J)
2/28/2017	0.00048 (J)					
7/17/2017	<0.0025					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
7/18/2017				0.001 (J)	0.0007 (J)	
7/19/2017						0.00069 (J)
9/20/2017	<0.0025			0.0011 (J)		
9/21/2017					0.00073 (J)	0.00073 (J)
1/8/2018	<0.0025					
1/9/2018				0.0011 (J)	0.0012 (J)	0.0014 (J)
3/27/2018	<0.0025			0.0011 (J)	0.00081 (J)	0.0019 (J)
7/10/2018	<0.0025			0.0012 (J)	0.00086 (J)	0.0015 (J)
10/8/2018	<0.0025		0.0051		<0.0025	<0.0025
10/9/2018				<0.0025		
1/30/2019	0.00038 (J)		0.0044	0.0014 (J)	0.00092 (J)	0.00076 (J)
3/27/2019	<0.0025					0.0012 (J)
3/28/2019			0.0046	0.0014 (J)	0.00089 (J)	
9/11/2019	0.00032 (J)					
9/12/2019			0.0023	0.0015	0.00091	0.00074
3/10/2020	0.00028 (J)		0.003	0.0019	0.0009	0.00099
4/2/2020				0.0017 (J)		
9/21/2020	0.0003 (J)			0.0016 (J)	0.00059 (J)	
9/22/2020			<0.0025			0.00064 (J)
3/23/2021	0.00028 (J)	0.00019 (J)	0.00096 (J)	0.0017 (J)		
3/24/2021					0.00069 (J)	0.00077 (J)
8/17/2021	0.00032 (J)	0.00025 (J)	0.00016 (J)	0.002 (J)	0.00096 (J)	0.00085 (J)
2/7/2022			0.00073 (J)			
2/8/2022	0.00029 (J)	0.00032 (J)		0.0019 (J)	0.00096 (J)	0.001 (J)
8/30/2022	0.00031 (J)	0.00029 (J)	0.004	0.0023 (J)	0.00097 (J)	0.0016 (J)
1/31/2023		0.00028 (J)	0.0041			
2/1/2023				0.0027	0.0012 (J)	
2/2/2023						0.0017 (J)
3/28/2023		0.00032 (J)				
5/30/2023		0.00028 (J)				
7/26/2023		<0.0025				
8/28/2023		<0.0025			0.001 (J)	
8/29/2023			0.0029	0.0026		
9/6/2023						0.0017 (J)
1/23/2024		<0.0025	0.0033	0.003	0.001 (J)	0.0018 (J)
8/19/2024			0.0032			
8/20/2024		0.00028 (J)		0.0029	0.0012 (J)	0.0012 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999			<0.0025	<0.0025		
11/12/1999			<0.0025	<0.0025		
12/29/1999			<0.0025	<0.0025		
2/17/2000			<0.0025	<0.0025		
9/13/2000			0.01	<0.0025		
11/10/2000			<0.0025	<0.0025		
1/4/2001			<0.0025	<0.0025		
12/11/2001			<0.0025	<0.0025		
4/4/2002			<0.0025	<0.0025		
12/6/2002			<0.0025	<0.0025		
6/28/2003			<0.0025	<0.0025		
12/13/2003			<0.0025	<0.0025		
5/28/2004			<0.0025	<0.0025		
12/10/2004			0.0062	<0.0025		
6/24/2005			<0.0025	<0.0025		
12/13/2005			<0.0025	<0.0025		
7/12/2006			<0.0025	<0.0025		
12/1/2006			<0.0025	<0.0025		
6/21/2007			<0.0025	<0.0025		
12/15/2007			<0.0025	<0.0025		
6/21/2008				0.0025		
6/22/2008			<0.0025			
12/6/2008			<0.0025	<0.0025		
7/11/2009			<0.0025	<0.0025		
12/23/2009			<0.0025	<0.0025		
6/23/2010			<0.0025	<0.0025		
1/8/2011			<0.0025	<0.0025		
7/10/2011			<0.0025	<0.0025		
1/20/2012			<0.0025	<0.0025		
7/12/2012			<0.0025	<0.0025		
1/21/2013			<0.0025	<0.0025		
7/20/2013			<0.0025	<0.0025		
1/17/2014			<0.0025	<0.0025		
7/11/2014				<0.0025		
7/12/2014			<0.0013 (J)			
1/15/2015			0.00096 (J)			
1/16/2015				0.00071 (J)		
7/15/2015			0.0006 (J)	0.00064 (J)		
1/17/2016			0.00069 (J)	0.00066 (J)		
6/22/2016			0.0011 (J)	0.0009 (J)		
8/31/2016			0.0006 (J)	0.0006 (J)		
1/24/2017			0.00067 (J)			
1/25/2017				0.00047 (J)		
7/19/2017			0.00079 (J)			
7/20/2017				<0.0025		
9/21/2017			0.00077 (J)	<0.0025		
1/9/2018			0.00092 (J)	0.00048 (J)		
3/28/2018				0.00048 (J)		
3/29/2018			0.0008 (J)			
7/10/2018			0.00097 (J)	0.00084 (J)		
10/8/2018	0.0055					
10/9/2018			<0.0025	<0.0025		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
1/30/2019	0.0047			0.00038 (J)		
1/31/2019			0.00092 (J)			
3/28/2019	0.0045		0.00072 (J)	<0.0025		
9/12/2019	0.0043		0.0009	0.00044 (J)		
3/11/2020	0.0056					
3/31/2020			0.00061 (J)	0.00033 (J)		
9/21/2020	0.0025					
9/22/2020			0.00092 (J)	0.00042 (J)		
3/23/2021	0.003		0.00069 (J)			0.0034
3/24/2021		0.0063		0.00037 (J)	0.0023 (J)	
8/17/2021	0.0026					
8/18/2021		0.0053	0.0011 (J)	0.00034 (J)	0.0021 (J)	0.0016 (J)
2/7/2022	0.0024 (J)					
2/8/2022			0.0013 (J)		0.002 (J)	
2/9/2022		0.0044		0.00042 (J)		0.0012 (J)
8/30/2022	0.0024 (J)	0.0044	0.0012 (J)	0.00048 (J)		
8/31/2022					0.0018 (J)	0.0012 (J)
1/31/2023	0.0023 (J)	0.0046			0.0021 (J)	0.0011 (J)
2/1/2023			0.0013 (J)	0.00047 (J)		
3/29/2023		0.0051			0.0021 (J)	0.001 (J)
5/31/2023		0.005			0.0021 (J)	0.0011 (J)
7/26/2023		0.0054			0.0026	0.0011 (J)
8/28/2023	0.0019 (J)					
8/29/2023		0.0047	0.0014 (J)	0.00045 (J)	0.0023 (J)	0.00099 (J)
1/23/2024	0.0018 (J)	0.0042	0.0014 (J)	0.0004 (J)	0.0027	0.00095 (J)
8/19/2024	0.0018 (J)					
8/20/2024		0.0048	0.0015 (J)	0.00048 (J)	0.0037	0.001 (J)

Time Series

Constituent: Copper (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
10/5/1999	<0.002			<0.002	<0.002	<0.002
11/12/1999	<0.002			<0.002	<0.002	<0.002
12/29/1999	<0.002			<0.002	<0.002	<0.002
2/17/2000	<0.002			<0.002	<0.002	<0.002
9/13/2000	<0.002			<0.002	<0.002	<0.002
11/10/2000	<0.002			<0.002	<0.002	<0.002
1/4/2001	<0.002			<0.002	<0.002	<0.002
12/11/2001	<0.002			<0.002	<0.002	<0.002
4/4/2002	<0.002			<0.002	<0.002	<0.002
12/6/2002	<0.002			<0.002	<0.002	0.0089 (o)
6/28/2003	<0.002			<0.002	<0.002	0.019 (o)
12/13/2003	<0.002			<0.002	<0.002	0.0067 (o)
5/28/2004	0.0052			<0.002	<0.002	0.0057 (o)
12/10/2004	<0.002			<0.002	<0.002	0.0027
6/24/2005	<0.002			<0.002	<0.002	0.0038
12/13/2005	<0.002			<0.002	<0.002	<0.002
7/12/2006	0.0055			<0.002	<0.002	0.0033
12/1/2006	<0.002			<0.002	<0.002	<0.002
6/21/2007	0.0032			<0.002	<0.002	0.0035
12/15/2007	<0.002			<0.002	<0.002	<0.002
6/21/2008					<0.002	
6/22/2008	<0.002			<0.002		<0.002
12/6/2008				<0.002	<0.002	<0.002
12/7/2008	<0.002					
7/10/2009				<0.002		
7/11/2009	<0.002				<0.002	<0.002
12/22/2009						0.0025
12/23/2009	0.0025			<0.002	<0.002	
6/23/2010				<0.002	<0.002	<0.002
6/24/2010	<0.002					
1/8/2011				<0.002	<0.002	<0.002
1/9/2011	0.004					
7/10/2011				<0.002	<0.002	<0.002
7/11/2011	<0.002					
1/19/2012				<0.002	<0.002	
1/20/2012	<0.002					<0.002
7/12/2012				<0.002	<0.002	<0.002
7/13/2012	<0.002					
1/21/2013	<0.002			<0.002	<0.002	<0.002
7/20/2013	<0.002			<0.002	<0.002	<0.002
1/17/2014	<0.005 (J)			<0.002	<0.002	<0.005 (J)
7/12/2014	<0.005 (J)			<0.002	<0.002	<0.002
1/15/2015				<0.002	<0.002	
1/16/2015	<0.002					<0.002
7/15/2015	<0.002			<0.002	<0.002	<0.002
1/16/2016	<0.002			<0.002	<0.002	<0.002
6/22/2016	0.002 (JD)			0.00205 (JD)	<0.002	0.001
1/19/2017				<0.002	<0.002	<0.002
2/28/2017	<0.002					
7/17/2017	<0.002					
7/18/2017				<0.002	<0.002	
7/19/2017						<0.002

Time Series

Constituent: Copper (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
1/8/2018	<0.002					
1/9/2018				<0.002	0.0025	<0.002
7/10/2018	<0.002			<0.002	<0.002	<0.002
1/30/2019	<0.002		0.0035	<0.002	<0.002	<0.002
3/27/2019	<0.002					<0.002
3/28/2019			0.0031	<0.002	<0.002	
9/11/2019	<0.002					
9/12/2019			0.0038	0.0024	0.0022	0.0011 (J)
3/10/2020	<0.002		0.0021	0.00082 (J)	<0.002	0.0019 (J)
4/2/2020				0.0019 (J)		
9/21/2020	<0.002			<0.002	<0.002	
9/22/2020			0.00096 (J)			0.0013 (J)
3/23/2021	<0.002	0.0015 (J)	0.0011 (J)	<0.002		
3/24/2021					<0.002	0.00077 (J)
8/17/2021	<0.002	<0.002	0.0043	<0.002	<0.002	<0.002
2/7/2022			0.0012 (J)			
2/8/2022	<0.002	<0.002		0.0011 (J)	<0.002	<0.002
8/30/2022	<0.002	<0.002	0.0013 (J)	0.0029	0.0012 (J)	0.0011 (J)
1/31/2023		<0.002	<0.002			
2/1/2023				<0.002	<0.002	
2/2/2023						0.0018 (J)
3/28/2023		<0.002				
5/30/2023		<0.002				
7/26/2023		<0.002				
8/28/2023		<0.002			<0.002	
8/29/2023			<0.002	0.0057		
9/6/2023						<0.002
1/23/2024		<0.002	<0.002	0.0012 (J)	<0.002	<0.002
8/19/2024			<0.002			
8/20/2024		<0.002		0.003	<0.002	<0.002

Time Series

Constituent: Copper (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999			<0.002	<0.002		
11/12/1999			<0.002	<0.002		
12/29/1999			<0.002	<0.002		
2/17/2000			<0.002	<0.002		
9/13/2000			<0.002	<0.002		
11/10/2000			<0.002	<0.002		
1/4/2001			<0.002	<0.002		
12/11/2001			<0.002	<0.002		
4/4/2002			<0.002	<0.002		
12/6/2002			<0.002	<0.002		
6/28/2003			<0.002	<0.002		
12/13/2003			<0.002	<0.002		
5/28/2004			<0.002	<0.002		
12/10/2004			0.11 (o)	<0.002		
6/24/2005			<0.002	<0.002		
12/13/2005			<0.002	<0.002		
7/12/2006			<0.002	<0.002		
12/1/2006			<0.002	<0.002		
6/21/2007			<0.002	<0.002		
12/15/2007			<0.002	<0.002		
6/21/2008				<0.002		
6/22/2008			<0.002			
12/6/2008			<0.002	<0.002		
7/11/2009			<0.002	<0.002		
12/23/2009			<0.002	<0.002		
6/23/2010			<0.002	<0.002		
1/8/2011			<0.002	<0.002		
7/10/2011			<0.002	<0.002		
1/20/2012			<0.002	<0.002		
7/12/2012			<0.002	<0.002		
1/21/2013			<0.002	<0.002		
7/20/2013			<0.002	<0.002		
1/17/2014			0.0065 (o)	<0.002		
7/11/2014				<0.002		
7/12/2014			<0.002			
1/15/2015			<0.002			
1/16/2015				<0.002		
7/15/2015			<0.002	<0.002		
1/17/2016			<0.002	<0.002		
6/22/2016			0.0005 (J)	<0.002		
1/24/2017			<0.002			
1/25/2017				<0.002		
7/19/2017			<0.002			
7/20/2017				<0.002		
1/9/2018			<0.002	<0.002		
7/10/2018			<0.002	<0.002		
1/30/2019	0.0018 (J)			<0.002		
1/31/2019			<0.002			
3/28/2019	<0.002		<0.002	<0.002		
9/12/2019	0.0041		0.002	<0.002		
3/11/2020	0.0032					
3/31/2020			<0.002	<0.002		

Time Series

Constituent: Copper (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
9/21/2020	0.0018 (J)					
9/22/2020			<0.002	<0.002		
3/23/2021	0.0027		<0.002			<0.002
3/24/2021		0.001 (J)		<0.002	<0.002	
8/17/2021	0.0025					
8/18/2021		0.00085 (J)	<0.002	<0.002	<0.002	<0.002
2/7/2022	0.008					
2/8/2022			0.0019 (J)		<0.002	
2/9/2022		<0.002		<0.002		<0.002
8/30/2022	0.0028	0.0019 (J)	<0.002	<0.002		
8/31/2022					<0.002	<0.002
1/31/2023	<0.002	<0.002			<0.002	<0.002
2/1/2023			<0.002	<0.002		
3/29/2023		0.0011 (J)			<0.002	<0.002
5/31/2023		0.0012 (J)			<0.002	<0.002
7/26/2023		<0.002			<0.002	<0.002
8/28/2023	0.0016 (J)					
8/29/2023		<0.002	<0.002	<0.002	<0.002	<0.002
1/23/2024	0.0011 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
8/19/2024	0.0015 (J)					
8/20/2024		<0.002	<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Fluoride (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
8/31/2016				<0.5	<0.1	0.13 (J)
9/1/2016	<0.1					
1/19/2017				<0.5	0.089 (J)	<0.082
2/28/2017	0.098 (J)					
7/17/2017	<0.1					
7/18/2017				<0.5	<0.1	
7/19/2017						<0.082
9/20/2017	<0.1			<0.5		
9/21/2017					<0.1	0.13 (J)
1/8/2018	<0.1					
1/9/2018				<0.5	<0.1	0.13 (J)
3/27/2018	<0.1			<0.5	<0.1	0.21
7/10/2018	<0.1			<0.5	<0.1	0.17 (J)
10/8/2018	<0.1		<0.5		<0.1	0.11 (J)
10/9/2018				<0.5		
1/30/2019	<0.1		<0.5	<0.5	0.029 (J)	0.089 (J)
3/27/2019	<0.1					0.1 (J)
3/28/2019			<0.5	<0.5	<0.1	
9/11/2019	<0.1					
9/12/2019			0.036 (J)	<0.5	0.035 (J)	0.052 (J)
3/10/2020	<0.1		<0.5	0.026 (J)	0.066 (J)	0.051 (J)
4/2/2020				0.051 (J)		
9/21/2020	<0.1			<0.5	0.06 (J)	
9/22/2020			0.039 (J)			0.049 (J)
3/23/2021	<0.1	0.079 (J)	<0.5	<0.5		
3/24/2021					0.12	0.08 (J)
8/17/2021	0.038 (J)	0.09 (J)	0.083 (J)	0.064 (J)	0.061 (J)	0.097 (J)
2/7/2022			0.027 (J)			
2/8/2022	<0.1	0.077 (J)		0.033 (J)	0.061 (J)	0.12
8/30/2022	<0.1	0.51	<0.5	<0.5	0.047 (J)	0.11
1/31/2023		0.13	<0.5			
2/1/2023				<0.5	0.043 (J)	
2/2/2023						0.12
3/28/2023		0.04 (J)				
5/30/2023		0.067 (J)				
7/26/2023		0.19				
8/28/2023		0.21			0.051 (J)	
8/29/2023			<0.5	<0.5		
9/6/2023						0.15
1/23/2024		0.24	<0.5	0.049 (J)	0.077 (J)	0.15
8/19/2024			<0.5			
8/20/2024		<0.1		<0.5	<0.1	0.13

Time Series

Constituent: Fluoride (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/31/2016			<0.1	<0.1		
1/24/2017			<0.1			
1/25/2017				<0.1		
7/19/2017			<0.1			
7/20/2017				<0.1		
9/21/2017			<0.1	<0.1		
1/9/2018			<0.1	<0.1		
3/28/2018				<0.1		
3/29/2018			<0.1			
7/10/2018			<0.1	<0.1		
10/8/2018	<0.5					
10/9/2018			<0.1	<0.1		
1/30/2019	<0.5			<0.1		
1/31/2019			<0.1			
3/28/2019	<0.5		<0.1	<0.1		
9/12/2019	<0.5		<0.1	<0.1		
3/11/2020	<0.5					
3/31/2020			0.043 (J)	0.028 (J)		
9/21/2020	<0.5					
9/22/2020			<0.1	<0.1		
3/23/2021	<0.5		<0.1			<0.1
3/24/2021		0.046 (J)		<0.1	<0.1	
8/17/2021	0.033 (J)					
8/18/2021		0.072 (J)	<0.1	<0.1	<0.1	0.039 (J)
2/7/2022	<0.5					
2/8/2022			<0.1		0.033 (J)	
2/9/2022		0.069 (J)		0.038 (J)		0.042 (J)
8/30/2022	<0.5	0.071 (J)	<0.1	<0.1		
8/31/2022					<0.1	<0.1
1/31/2023	<0.5	0.074 (J)			<0.1	<0.1
2/1/2023			<0.1	<0.1		
3/29/2023		0.066 (J)			<0.1	<0.1
5/31/2023		0.11			0.056 (J)	0.05 (J)
7/26/2023		0.085 (J)			<0.1	<0.1
8/28/2023	<0.5					
8/29/2023		0.08 (J)	<0.1	<0.1	<0.1	<0.1
1/23/2024	<0.5	0.1	0.043 (J)	<0.1	<0.1	<0.1
8/19/2024	<0.5					
8/20/2024		<0.1	<0.1	<0.1	<0.1	<0.1

Time Series

Constituent: Lead (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
10/5/1999	0.007			<0.001	<0.001	<0.0013
11/12/1999	0.0063 (o)			<0.001	<0.001	<0.0013
12/29/1999	0.016			<0.001	<0.001	<0.0013
2/17/2000	<0.001			<0.001	<0.001	<0.0013
9/13/2000	<0.001			<0.001	<0.001	<0.0013
11/10/2000	<0.001			<0.001	<0.001	<0.0013
1/4/2001	<0.001			<0.001	<0.001	<0.0013
12/11/2001	<0.001			<0.001	<0.001	<0.0013
4/4/2002	<0.001			<0.001	<0.001	<0.0013
12/6/2002	<0.001			<0.001	<0.001	0.011
6/28/2003	<0.001			<0.001	<0.001	<0.0013
12/13/2003	<0.001			<0.001	<0.001	<0.0013
5/28/2004	0.015			<0.001	<0.001	<0.0013
12/10/2004	0.01			<0.001	<0.001	<0.0013
6/24/2005	<0.001			<0.001	<0.001	<0.0013
12/13/2005	<0.001			<0.001	<0.001	<0.0013
7/12/2006	0.013			<0.001	<0.001	<0.0013
12/1/2006	<0.001			<0.001	<0.001	<0.0013
6/21/2007	<0.001			<0.001	<0.001	<0.0013
12/15/2007	<0.001			<0.001	<0.001	<0.0013
6/21/2008					<0.001	
6/22/2008	<0.001			<0.001		<0.0013
12/6/2008				<0.001	<0.001	<0.0013
12/7/2008	<0.001					
7/10/2009				<0.001		
7/11/2009	<0.001				<0.001	<0.0013
12/22/2009						<0.0013
12/23/2009	<0.001			<0.001	<0.001	
6/23/2010				<0.001	<0.001	<0.0013
6/24/2010	<0.001					
1/8/2011				<0.001	<0.001	<0.0013
1/9/2011	<0.001					
7/10/2011				<0.001	<0.001	<0.0013
7/11/2011	<0.001					
1/19/2012				<0.001	<0.001	
1/20/2012	<0.001					<0.0013
7/12/2012				<0.001	<0.001	<0.0013
7/13/2012	<0.001					
1/21/2013	<0.001			<0.001	<0.001	<0.0013
7/20/2013	<0.001			<0.001	<0.001	<0.0013
1/17/2014	<0.001			<0.001	<0.001	<0.0013
7/12/2014	<0.001			<0.001	<0.001	<0.0013
1/15/2015				<0.001	<0.001	
1/16/2015	<0.001					<0.0013
7/15/2015	<0.001			<0.001	<0.001	<0.0013
1/16/2016	<0.001			<0.001	<0.001	<0.0013
6/22/2016	0.00125 (JD)			0.00025 (JD)	0.0003 (J)	0.001 (J)
8/31/2016				<0.001	<0.001	0.00099 (J)
9/1/2016	0.082 (o)					
1/19/2017				<0.001	<0.001	0.001 (J)
2/28/2017	<0.001					
7/17/2017	<0.001					

Time Series

Constituent: Lead (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
7/18/2017				<0.001	<0.001	
7/19/2017						0.00081 (J)
9/20/2017	0.00035 (J)			<0.001		
9/21/2017					0.0076	0.00086 (J)
1/8/2018	<0.001					
1/9/2018				<0.001	0.0023	0.00059 (J)
3/27/2018	<0.001			<0.001	<0.001	<0.0013
7/10/2018	<0.001			<0.001	<0.001	0.00045 (J)
10/8/2018	<0.001		<0.001		<0.001	<0.0013
10/9/2018				<0.001		
1/30/2019	0.00021 (J)		0.00028 (J)	0.00034 (J)	0.00013 (J)	0.00064 (J)
3/27/2019	<0.001					0.0012 (J)
3/28/2019			<0.001	0.00038 (J)	<0.001	
9/11/2019	<0.001					
9/12/2019			<0.001	<0.001	<0.001	0.00082 (J)
3/10/2020	0.00015 (J)		<0.001	0.00013 (J)	0.00031 (J)	0.0022
4/2/2020				0.00062 (J)		
9/21/2020	<0.001			<0.001	0.00025 (J)	
9/22/2020			<0.001			0.0012
3/23/2021	0.00017 (J)	<0.001	<0.001	0.00029 (J)		
3/24/2021					0.00021 (J)	0.00066 (J)
8/17/2021	<0.001	<0.001	0.00073 (J)	0.00015 (J)	<0.001	0.00044 (J)
2/7/2022			<0.001			
2/8/2022	<0.001	<0.001		<0.001	<0.001	0.00058 (J)
8/30/2022	<0.001	<0.001	<0.001	<0.001	<0.001	0.00064 (J)
1/31/2023		<0.001	<0.001			
2/1/2023				0.00027 (J)	<0.001	
2/2/2023						0.0013
3/28/2023		<0.001				
5/30/2023		0.00043 (J)				
7/26/2023		<0.001				
8/28/2023		<0.001			<0.001	
8/29/2023			<0.001	<0.001		
9/6/2023						0.0007 (J)
1/23/2024		<0.001	<0.001	0.00031 (J)	<0.001	0.0011
8/19/2024			<0.001			
8/20/2024		<0.001		0.0003 (J)	<0.001	0.00046 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999			0.0054 (o)	<0.001		
11/12/1999			<0.001	<0.001		
12/29/1999			<0.001	<0.001		
2/17/2000			<0.001	<0.001		
9/13/2000			<0.001	0.0067 (o)		
11/10/2000			<0.001	<0.001		
1/4/2001			<0.001	<0.001		
12/11/2001			<0.001	<0.001		
4/4/2002			<0.001	<0.001		
12/6/2002			<0.001	<0.001		
6/28/2003			<0.001	<0.001		
12/13/2003			<0.001	<0.001		
5/28/2004			<0.001	<0.001		
12/10/2004			<0.001	<0.001		
6/24/2005			<0.001	<0.001		
12/13/2005			<0.001	<0.001		
7/12/2006			<0.001	<0.001		
12/1/2006			<0.001	<0.001		
6/21/2007			<0.001	<0.001		
12/15/2007			<0.001	<0.001		
6/21/2008				<0.001		
6/22/2008			<0.001			
12/6/2008			<0.001	<0.001		
7/11/2009			<0.001	<0.001		
12/23/2009			<0.001	<0.001		
6/23/2010			<0.001	<0.001		
1/8/2011			<0.001	<0.001		
7/10/2011			<0.001	<0.001		
1/20/2012			<0.001	<0.001		
7/12/2012			<0.001	<0.001		
1/21/2013			<0.001	<0.001		
7/20/2013			<0.001	<0.001		
1/17/2014			<0.001	<0.001		
7/11/2014				<0.001		
7/12/2014			<0.001			
1/15/2015			<0.001			
1/16/2015				<0.001		
7/15/2015			<0.001	<0.001		
1/17/2016			<0.001	<0.001		
6/22/2016			0.0001 (J)	<0.001		
8/31/2016			<0.001	<0.001		
1/24/2017			<0.001			
1/25/2017				<0.001 (D)		
7/19/2017			<0.001			
7/20/2017				<0.001		
9/21/2017			0.0014 (o)	<0.001		
1/9/2018			<0.001	<0.001		
3/28/2018				<0.001		
3/29/2018			<0.001			
7/10/2018			<0.001	<0.001		
10/8/2018	<0.001					
10/9/2018			<0.001	<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
1/30/2019	<0.001			<0.001		
1/31/2019			<0.001			
3/28/2019	<0.001		<0.001	<0.001		
9/12/2019	<0.001		<0.001	<0.001		
3/11/2020	<0.001					
3/31/2020			<0.001	<0.001		
9/21/2020	<0.001					
9/22/2020			<0.001	<0.001		
3/23/2021	<0.001		<0.001			<0.001
3/24/2021		<0.001		<0.001	0.0003 (J)	
8/17/2021	<0.001					
8/18/2021		<0.001	<0.001	<0.001	0.00021 (J)	<0.001
2/7/2022	<0.001					
2/8/2022			<0.001		0.00061 (J)	
2/9/2022		<0.001		<0.001		<0.001
8/30/2022	<0.001	<0.001	<0.001	<0.001		
8/31/2022					0.00027 (J)	<0.001
1/31/2023	<0.001	<0.001			<0.001	<0.001
2/1/2023			<0.001	<0.001		
3/29/2023		<0.001			<0.001	<0.001
5/31/2023		0.00048 (J)			0.00061 (J)	0.00038 (J)
7/26/2023		<0.001			<0.001	<0.001
8/28/2023	<0.001					
8/29/2023		<0.001	<0.001	<0.001	<0.001	0.00038 (J)
1/23/2024	0.00056 (J)	<0.001	<0.001	<0.001	0.0003 (J)	0.00023 (J)
8/19/2024	<0.001					
8/20/2024		<0.001	<0.001	<0.001	0.00024 (J)	<0.001

Time Series

Constituent: pH (S.U.) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
10/5/1999	6.63			6.42	6.51	6.3
11/12/1999	5.51			5.03	5.46	4.72
12/29/1999	5.23			4.92	5.13	4.8
2/17/2000	5.29			5.13	5.22	4.78
9/13/2000	5.41			4.85	4.86	4.58
11/10/2000	5.47			5.05	5.29	4.5
1/4/2001	5.44			5.08	5.53	4.61
12/11/2001	4.86			4.81	5.37	4.87
4/4/2002	5.1			4.92	5.32	4.96
12/6/2002	4.917 (D)			5.07 (D)	5.3 (D)	4.4 (D)
6/28/2003	4.91			4.69	4.73	3.77
12/13/2003	4.87			4.81	4.53	4.25
5/28/2004	4.98			3.93	4.22	3.9
12/10/2004	4.35			4.25	4.26	3.71
6/24/2005	4.82			4.5	4.47	3.94
12/13/2005	4.66			4.52	4.47	3.94
7/12/2006	5.49			3.59	3.68	5.56
7/11/2014	5.55					
7/12/2014				5.44	5.33	3.88
7/15/2015	5.13			4.98	4.94	4.19
1/16/2016	5.06			4.87	4.85	4.35
8/31/2016				4.92	4.79	4.53
1/19/2017				4.86	4.72	4.79
2/28/2017	5.33					
7/17/2017	5.09					
7/18/2017				5.02	4.96	
7/19/2017						4.83
9/20/2017	5.29			4.72		
9/21/2017					4.7	4.57
1/8/2018	5.26			4.92		
1/9/2018				4.83	4.91	4.4
3/27/2018	5.27			4.91	4.92	4.11
7/10/2018	5.17			4.87	4.94	4.62
10/8/2018	5.18		5.29	4.84	4.76	4.51
1/30/2019	5.17		5.08	4.88	4.94	4.72
3/27/2019	5.09					4.56
3/28/2019			4.93	4.8	4.99	
9/11/2019	5.1					
9/12/2019			5.57	4.99	4.92	4.54
3/10/2020	5.48		5.56	4.79	4.59	4.81
4/2/2020				4.75		
9/21/2020	4.95			4.69	4.6	
9/22/2020			5.83			4.99
3/23/2021	5.17	5.63	5.61	4.6		
3/24/2021					4.42	4.37
8/17/2021	5.24	5.83	5.82	4.76	4.78	4.62
2/7/2022			5.7			
2/8/2022	5.17	5.43		4.69	4.93	4.67
8/30/2022	5.01	5.86	4.9	4.71	4.72	4.51
1/31/2023		6.15	5.07			
2/1/2023				4.52	4.77	
2/2/2023						4.59

Time Series

Constituent: pH (S.U.) Analysis Run 9/30/2024 12:38 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
3/28/2023		5.73				
5/30/2023		5.89				
7/26/2023		5.86				
8/28/2023		5.72			4.34	
8/29/2023			5.78	4.46		
9/6/2023						4.32
1/23/2024	6.52		5.14	4.65	4.98	4.66
8/19/2024			5.7			
8/20/2024	5.71			4.96	4.81	4.62

Time Series

Constituent: pH (S.U.) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999			6.08	5.33		
11/12/1999			5.35	4.6		
12/29/1999			5.19	4.8		
2/17/2000			5.18	4.98		
9/13/2000			5.13	4.75		
11/10/2000			5.2	4.65		
1/4/2001			5.14	4.83		
12/11/2001			4.93	4.73		
4/4/2002			5	5.05		
12/6/2002			5.02	4.65 (D)		
6/28/2003			4.92	4		
12/13/2003			4.82	4.97		
5/28/2004			4.6	4.51		
12/10/2004			4.29	4.09		
2/5/2005			4.43			
6/24/2005			4.56	4.27		
12/13/2005			4.34	4.54		
7/12/2006			4.38	4.57		
7/11/2014				4.64		
7/12/2014			5.68			
7/15/2015			5.22	4.67		
1/17/2016			6.07			
8/31/2016			5.49	4.89		
1/24/2017			5.25			
1/25/2017				4.73		
7/19/2017			5.54			
7/20/2017				4.96		
9/21/2017			5.19	4.78		
1/9/2018			4.97	4.79		
3/28/2018				4.44		
3/29/2018			5.15			
7/10/2018			5.37	4.88		
10/8/2018	5.79					
10/9/2018			5.04	4.85		
1/29/2019				4.7		
1/30/2019	5.15			4.52		
1/31/2019			5.38			
3/28/2019	5.62		5.38	4.68		
9/12/2019	5.1		5.14	4.89		
3/11/2020	5.05					
3/31/2020			5.64	4.66		
9/21/2020	5.35					
9/22/2020			5.04	4.92		
3/23/2021	5.01		5.61			5.31
3/24/2021		4.38		4.59	5.42	
8/17/2021	5.51					
8/18/2021		4.59	4.98	4.76	5.17	5.26
2/7/2022	5.29					
2/8/2022			4.79		5.2	
2/9/2022		4.53		4.82		5.31
8/30/2022	5	4.43	4.96	4.71		
8/31/2022				4.97		5.07

Time Series

Constituent: pH (S.U.) Analysis Run 9/30/2024 12:38 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
1/31/2023	5	4.43			4.85	5.32
2/1/2023			4.83	4.6		
3/29/2023		4.38			4.69	5.18
5/31/2023		4.31			4.62	5.07
7/26/2023		4.26			4.57	4.93
8/28/2023	4.91					
8/29/2023		4.25	4.63	4.39	4.6	4.96
1/23/2024	5.01	4.55	4.96	4.64	4.8	5.32
8/19/2024	5.16					
8/20/2024		4.52	5.6	4.68	4.78	5.3

Time Series

Constituent: Sulfate (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
8/31/2016				<5	7	21
9/1/2016	<1					
1/19/2017				<5	6.3	11
2/28/2017	2.7					
7/17/2017	<1					
7/18/2017				<5	4.7	
7/19/2017						12
9/20/2017	<1			<5		
9/21/2017					4.5	15
1/8/2018	<1					
1/9/2018				<5	3	25
3/27/2018	<1			<5	3.8	31
7/10/2018	<1			<5	3.4	19
10/8/2018	<1		73		3.4	17
10/9/2018				<5		
1/30/2019	1.2		74	0.41 (J)	3.5	15
3/27/2019	<1					20
3/28/2019			71	0.44 (J)	3	
9/11/2019	<1					
9/12/2019			59	0.69 (J)	3.7	10
3/10/2020	1.5		57	3	7.2	15
4/2/2020				<5		
9/21/2020	<1			<5	5	
9/22/2020			52			12
3/23/2021	<1	6.8	49	<5		
3/24/2021					7	16
8/17/2021	<1	5.2	54	<5	5	11
2/7/2022			42			
2/8/2022	<1	2.8		<5	5.9	13
8/30/2022	<1	1.6	74	<5	3.5	13
1/31/2023		1	71			
2/1/2023				<5	3.1	
2/2/2023						15
3/28/2023		2				
5/30/2023		2				
7/26/2023		1.5				
8/28/2023		1.4			3.2	
8/29/2023			42	<5		
9/6/2023						14
1/23/2024		1.4	54	<5	3.3	14
8/19/2024			32			
8/20/2024		0.78 (J)		<5	4	19

Time Series

Constituent: Sulfate (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/31/2016			<1	1.7		
1/24/2017			<1			
1/25/2017				1.8		
7/19/2017			<1			
7/20/2017				0.83 (J)		
9/21/2017			<1	1.1		
1/9/2018			<1	0.79 (J)		
3/28/2018				0.79 (J)		
3/29/2018			<1			
7/10/2018			<1	0.76 (J)		
10/8/2018	75					
10/9/2018			<1	<1		
1/30/2019	85			0.9 (J)		
1/31/2019			0.57 (J)			
3/28/2019	85		<1	1.1		
9/12/2019	81		0.43 (J)	1.1		
3/11/2020	110					
3/31/2020			1	2.5		
9/21/2020	49					
9/22/2020			<1	0.76 (J)		
3/23/2021	88		0.8 (J)			10
3/24/2021		1		<1	26	
8/17/2021	84					
8/18/2021		0.84 (J)	1.2	<1	10	8.3
2/7/2022	54					
2/8/2022			2.7		5.9	
2/9/2022		<1		<1		5.4
8/30/2022	73	<1	1.1	<1		
8/31/2022					<1	3.5
1/31/2023	74	<1			<1	3.3
2/1/2023			1.3	<1		
3/29/2023		<1			<1	4
5/31/2023		0.43 (J)			0.71 (J)	3.3
7/26/2023		<1			0.43 (J)	3.2
8/28/2023	67					
8/29/2023		0.4 (J)	5.2	0.57 (J)	0.48 (J)	2.7
1/23/2024	66	<1	3.8	0.41 (J)	<1	3.3
8/19/2024	77					
8/20/2024		0.48 (J)	5.1	0.95 (J)	0.52 (J)	3.2

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
8/31/2016				42 (D)	14 (D)	66 (D)
9/1/2016	2200 (o)					
1/19/2017				52 (D)	34 (D)	48 (D)
2/28/2017	74 (D)					
7/17/2017	50					
7/18/2017				32	26	
7/19/2017						48
9/20/2017	26			16		
9/21/2017					24	76
1/8/2018	16					
1/9/2018				4 (J)	16	18
3/27/2018	40			30	<5	48
7/10/2018	90			30	14	76
10/8/2018	70		170		36	8
10/9/2018				56		
1/30/2019	82		140	41	40	67
3/27/2019	66					70
3/28/2019			150	36	24	
9/11/2019	53					
9/12/2019			89	<10	10	20
3/10/2020	67		130	49	39	67
4/2/2020				61		
9/21/2020	31			61	31	
9/22/2020			110			53
3/23/2021	47	63	130	76		
3/24/2021					36	60
8/17/2021	36	43	130	83	33	50
2/7/2022			120			
2/8/2022	45	39		62	29	57
8/30/2022	55	79	150	87	40	64
1/31/2023		76	140			
2/1/2023				85	34	
2/2/2023						65
3/28/2023		48				
5/30/2023		51				
7/26/2023		84				
8/28/2023		85			48	
8/29/2023			110	85		
9/6/2023						66
1/23/2024		100	120	99	32	68
8/19/2024			98			
8/20/2024		50		94	40	53

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/31/2016			42 (D)	36 (D)		
1/24/2017			28 (D)			
1/25/2017				58 (D)		
7/19/2017			42			
7/20/2017				16		
9/21/2017			46	24		
1/9/2018			10	8		
3/28/2018				26		
3/29/2018			52			
7/10/2018			38	26		
10/8/2018	180					
10/9/2018			52	16		
1/30/2019	180			37		
1/31/2019			45			
3/28/2019	170		45	28		
9/12/2019	140		28	<10		
3/11/2020	180					
3/31/2020			50	52		
9/21/2020	130					
9/22/2020			30	36		
3/23/2021	180		56			71
3/24/2021		59		27	97	
8/17/2021	160					
8/18/2021		66	37	29	41	61
2/7/2022	150					
2/8/2022			30		48	
2/9/2022		62		22		100
8/30/2022	160	65	38	21		
8/31/2022					27	73
1/31/2023	150	57			25	71
2/1/2023			36	18		
3/29/2023		63			26	69
5/31/2023		61			25	68
7/26/2023		57			29	70
8/28/2023	140					
8/29/2023		53	45	21	36	76
1/23/2024	140	63	40	25	35	75
8/19/2024	130					
8/20/2024		56	60	23	39	71

Time Series

Constituent: Vanadium (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
10/5/1999	0.02			<0.002	<0.002	<0.0082
11/12/1999	0.027			<0.002	<0.002	<0.0082
12/29/1999	0.055 (o)			<0.002	<0.002	<0.0082
2/17/2000	0.042 (o)			<0.002	<0.002	<0.0082
9/13/2000	<0.001			<0.002	<0.002	<0.0082
11/10/2000	0.014			<0.002	<0.002	<0.0082
1/4/2001	<0.001			<0.002	<0.002	<0.0082
12/11/2001	<0.001			<0.002	<0.002	<0.0082
4/4/2002	<0.001			<0.002	<0.002	<0.0082
12/6/2002	<0.001			<0.002	<0.002	0.03
6/28/2003	<0.001			<0.002	<0.002	<0.0082
12/13/2003	<0.001			<0.002	<0.002	<0.0082
5/28/2004	0.017			<0.002	<0.002	<0.0082
12/10/2004	0.0082			<0.002	<0.002	<0.0082
6/24/2005	<0.001			<0.002	<0.002	<0.0082
12/13/2005	<0.001			<0.002	<0.002	<0.0082
7/12/2006	0.023			<0.002	<0.002	<0.0082
12/1/2006	0.0081			<0.002	<0.002	<0.0082
6/21/2007	0.009			0.0038	<0.002	0.07 (o)
12/15/2007	0.0056			<0.002	<0.002	<0.0082
6/21/2008					<0.002	
6/22/2008	0.013			<0.002		0.0026
12/6/2008				<0.002	<0.002	<0.0082
12/7/2008	0.0027					
7/10/2009				<0.002		
7/11/2009	0.0032				<0.002	<0.0082
12/22/2009						<0.0082
12/23/2009	0.0093			<0.002	<0.002	
6/23/2010				<0.002	<0.002	<0.0082
6/24/2010	0.0033					
1/8/2011				<0.002	<0.002	<0.0082
1/9/2011	<0.001					
7/10/2011				<0.002	<0.002	<0.0082
7/11/2011	<0.001					
1/19/2012				<0.002	<0.002	
1/20/2012	<0.001					<0.0082
7/12/2012				<0.002	<0.002	<0.0082
7/13/2012	0.011					
1/21/2013	0.028			<0.002	<0.002	<0.0082
7/20/2013	<0.001			<0.002	<0.002	<0.0082
1/17/2014	0.019			<0.002	<0.002	<0.0082
7/12/2014	<0.005 (J)			<0.002	<0.002	<0.0082
1/15/2015				<0.002	<0.002	
1/16/2015	0.0012 (J)					0.0011 (J)
7/15/2015	<0.001			<0.002	<0.002	0.0016 (J)
1/16/2016	0.0015 (J)			0.0011 (J)	0.00082 (J)	<0.0082
6/22/2016	0.0081 (JD)			<0.002	<0.002	0.0018 (J)
1/19/2017				<0.002	0.0025	0.0033
2/28/2017	0.0019 (J)					
7/17/2017	<0.001					
7/18/2017				<0.002	<0.002	
7/19/2017						0.0045

Time Series

Constituent: Vanadium (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
1/8/2018	<0.001					
1/9/2018				<0.002	0.0072	0.0027
7/10/2018	<0.001			<0.002	<0.002	<0.0082
1/30/2019	<0.001		<0.002	<0.002	<0.002	0.0019 (J)
3/27/2019	<0.001					<0.0082
3/28/2019			<0.002	<0.002	<0.002	
9/11/2019	0.0014					
9/12/2019			0.0021	0.002	0.0017	0.004
3/10/2020	<0.001		<0.002	<0.002	<0.002	0.01
4/2/2020				0.0013		
9/21/2020	<0.001			<0.002	0.0012	
9/22/2020			<0.002			0.0056
3/23/2021	<0.001	<0.002	<0.002	<0.002		
3/24/2021					<0.002	0.0018
8/17/2021	<0.001	<0.002	<0.002	<0.002	<0.002	0.0018
2/7/2022			<0.002			
2/8/2022	<0.001	<0.002		<0.002	<0.002	0.0023
8/30/2022	0.0019	0.0019	0.0016	<0.002	<0.002	0.0028
1/31/2023		<0.002	<0.002			
2/1/2023				<0.002	<0.002	
2/2/2023						0.0041
3/28/2023		<0.002				
5/30/2023		<0.002				
7/26/2023		<0.002				
8/28/2023		<0.002			<0.002	
8/29/2023			<0.002	<0.002		
9/6/2023						0.0015 (J)
1/23/2024		<0.002	<0.002	<0.002	<0.002	0.0011 (J)
8/19/2024			<0.002			
8/20/2024		<0.002		0.00095 (J)	<0.002	0.0012 (J)

Time Series

Constituent: Vanadium (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999			0.015 (o)	<0.002		
11/12/1999			<0.002	<0.002		
12/29/1999			<0.002	<0.002		
2/17/2000			<0.002	<0.002		
9/13/2000			<0.002	<0.002		
11/10/2000			<0.002	<0.002		
1/4/2001			<0.002	<0.002		
12/11/2001			<0.002	<0.002		
4/4/2002			<0.002	<0.002		
12/6/2002			<0.002	<0.002		
6/28/2003			<0.002	<0.002		
12/13/2003			<0.002	<0.002		
5/28/2004			<0.002	<0.002		
12/10/2004			<0.002	<0.002		
6/24/2005			<0.002	<0.002		
12/13/2005			<0.002	<0.002		
7/12/2006			<0.002	<0.002		
12/1/2006			<0.002	<0.002		
6/21/2007			<0.002	<0.002		
12/15/2007			<0.002	<0.002		
6/21/2008				<0.002		
6/22/2008			<0.002			
12/6/2008			<0.002	<0.002		
7/11/2009			<0.002	<0.002		
12/23/2009			<0.002	<0.002		
6/23/2010			<0.002	<0.002		
1/8/2011			<0.002	<0.002		
7/10/2011			<0.002	<0.002		
1/20/2012			<0.002	<0.002		
7/12/2012			<0.002	<0.002		
1/21/2013			<0.002	<0.002		
7/20/2013			<0.002	<0.002		
1/17/2014			<0.002	<0.002		
7/11/2014				<0.002		
7/12/2014			<0.002			
1/15/2015			<0.002			
1/16/2015				<0.002		
7/15/2015			<0.002	<0.002		
1/17/2016			<0.002	<0.002		
6/22/2016			0.0019 (J)	<0.002		
1/24/2017			0.0062			
1/25/2017				<0.002		
7/19/2017			0.0015 (J)			
7/20/2017				<0.002		
1/9/2018			<0.002	<0.002		
7/10/2018			<0.002	<0.002		
1/30/2019	<0.002			<0.002		
1/31/2019			<0.002			
3/28/2019	<0.002		<0.002	<0.002		
9/12/2019	0.002		0.0018	0.0021		
3/11/2020	<0.002					
3/31/2020			<0.002	<0.002		

Time Series

Constituent: Vanadium (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
9/21/2020	<0.002					
9/22/2020			<0.002	<0.002		
3/23/2021	<0.002		<0.002			<0.002
3/24/2021		<0.002		<0.002	<0.002	
8/17/2021	<0.002					
8/18/2021		<0.002	<0.002	<0.002	<0.002	<0.002
2/7/2022	0.0011					
2/8/2022			<0.002		<0.002	
2/9/2022		<0.002		<0.002		<0.002
8/30/2022	0.0016	0.00087 (J)	<0.002	<0.002		
8/31/2022					<0.002	<0.002
1/31/2023	<0.002	<0.002			<0.002	<0.002
2/1/2023			<0.002	<0.002		
3/29/2023		<0.002			<0.002	<0.002
5/31/2023		<0.002			<0.002	<0.002
7/26/2023		<0.002			<0.002	<0.002
8/28/2023	<0.002					
8/29/2023		<0.002	<0.002	<0.002	<0.002	<0.002
1/23/2024	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/19/2024	<0.002					
8/20/2024		<0.002	<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Zinc (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
10/5/1999	0.043			0.023	0.039	<0.02
11/12/1999	0.035			<0.02	0.025	<0.02
12/29/1999	0.058			<0.02	0.023	<0.02
2/17/2000	0.051			<0.02	<0.02	<0.02
9/13/2000	<0.005			<0.02	0.035	0.021
11/10/2000	<0.005			<0.02	0.023	<0.02
1/4/2001	<0.005			<0.02	0.027	<0.02
12/11/2001	<0.005			<0.02	0.036	<0.02
4/4/2002	<0.005			<0.02	0.038	<0.02
12/6/2002	<0.005			<0.02	0.033	0.06
6/28/2003	<0.005			<0.02	0.018	0.19 (o)
12/13/2003	<0.005			<0.02	0.013	0.067
5/28/2004	0.034			<0.02	<0.02	0.068
12/10/2004	0.021			<0.02	<0.02	0.039
6/24/2005	<0.005			<0.02	<0.02	0.033
12/13/2005	0.013			<0.02	0.011	0.039
7/12/2006	0.074			0.0047	0.0055	0.022
12/1/2006	0.048			0.065	0.0052	0.018
6/21/2007	0.067			0.008	0.0062	0.058
12/15/2007	0.053			0.0043	0.0055	0.0072
6/21/2008					0.011	
6/22/2008	0.024			0.0062		0.011
12/6/2008				0.051	0.008	0.011
12/7/2008	0.0087					
7/10/2009				0.0043		
7/11/2009	0.045				0.011	0.013
12/22/2009						0.013
12/23/2009	0.054			0.0039	0.0051	
6/23/2010				<0.02	0.0031	0.0084
6/24/2010	0.0065					
1/8/2011				0.0037	0.0035	0.0089
1/9/2011	0.022					
7/10/2011				0.0047	0.0081	0.0084
7/11/2011	0.0032					
1/19/2012				0.0045	0.017	
1/20/2012	0.0089					0.0094
7/12/2012				0.0033	0.01	0.0098
7/13/2012	0.012					
1/21/2013	0.024			0.0038	0.013	0.007
7/20/2013	0.0068			0.004	<0.02	0.0074
1/17/2014	0.02			0.005	0.0066	0.0092
7/12/2014	0.0055			0.004	0.0054	0.013
1/15/2015				0.0056	0.0076	
1/16/2015	0.0043					0.0081
7/15/2015	0.0026			0.0034	0.0053	0.009
1/16/2016	0.0035			0.0038	0.0048	0.007
6/22/2016	0.00805 (JD)			0.00575 (JD)	0.0038 (J)	0.0091 (J)
1/19/2017				<0.02	<0.02	0.0065 (J)
2/28/2017	<0.005					
7/17/2017	<0.005					
7/18/2017				<0.02	<0.02	
7/19/2017						0.0099 (J)

Time Series

Constituent: Zinc (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)
1/8/2018	<0.005					
1/9/2018				<0.02	0.0072 (J)	0.014 (J)
7/10/2018	<0.005			<0.02	<0.02	0.0089 (J)
1/30/2019	<0.005		0.013 (J)	0.0058 (J)	0.006 (J)	0.0057 (J)
3/27/2019	<0.005					0.01 (J)
3/28/2019			0.014 (J)	<0.02	<0.02	
9/11/2019	0.0062					
9/12/2019			0.0075	0.0081	0.0073	0.0074
3/10/2020	<0.005		0.0061	0.0079	0.0079	0.0071
4/2/2020				0.011		
9/21/2020	<0.005			0.0055	0.013	
9/22/2020			0.0066			0.039
3/23/2021	<0.005	0.0098	0.0066	0.0092		
3/24/2021					0.0058	0.0085
8/17/2021	0.048	0.024	0.026	0.014	0.029	0.024
2/7/2022			0.0046 (J)			
2/8/2022	0.0031 (J)	0.0048 (J)		0.013	0.007	0.007
8/30/2022	<0.005	0.003 (J)	0.014	0.012	0.01	0.013
1/31/2023		<0.005	0.012			
2/1/2023				0.0071	0.0089	
2/2/2023						0.0095
3/28/2023		0.0096				
5/30/2023		0.0076				
7/26/2023		<0.005				
8/28/2023		0.0029 (J)			0.0064	
8/29/2023			0.011	0.012		
9/6/2023						0.0082
1/23/2024		0.05	0.01	0.0091	0.0078	0.0077
8/19/2024			0.04			
8/20/2024		0.0035 (J)		0.019	0.0081	0.007

Time Series

Constituent: Zinc (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999			0.028	<0.005		
11/12/1999			<0.02	<0.005		
12/29/1999			0.022	<0.005		
2/17/2000			0.021	<0.005		
9/13/2000			<0.02	0.036 (o)		
11/10/2000			<0.02	<0.005		
1/4/2001			<0.02	<0.005		
12/11/2001			<0.02	<0.005		
4/4/2002			0.069 (o)	<0.005		
12/6/2002			0.012	0.012		
6/28/2003			0.011	<0.005		
12/13/2003			<0.02	<0.005		
5/28/2004			<0.02	<0.005		
12/10/2004			0.027	<0.005		
6/24/2005			<0.02	<0.005		
12/13/2005			0.011	<0.005		
7/12/2006			0.0064	<0.005		
12/1/2006			0.0077	0.098 (o)		
6/21/2007			0.0082	0.0043		
12/15/2007			0.0063	0.0057		
6/21/2008				0.0064		
6/22/2008			0.0074			
12/6/2008			0.0066	0.0052		
7/11/2009			0.0054	0.0049		
12/23/2009			0.0046	0.005		
6/23/2010			0.0041	0.0044		
1/8/2011			0.019	0.0036		
7/10/2011			0.005	0.0046		
1/20/2012			0.007	0.0045		
7/12/2012			0.0045	0.0041		
1/21/2013			0.0045	0.0038		
7/20/2013			<0.02	0.0047		
1/17/2014			0.0075	0.0051		
7/11/2014				0.0066		
7/12/2014			0.0051			
1/15/2015			0.0054			
1/16/2015				0.0046		
7/15/2015			0.0049	0.0036		
1/17/2016			0.0051	0.004		
6/22/2016			0.0087 (J)	0.0053 (J)		
1/24/2017			0.0071 (J)			
1/25/2017				<0.005		
7/19/2017			<0.02			
7/20/2017				<0.005		
1/9/2018			0.0079 (J)	<0.005		
7/10/2018			0.0067 (J)	<0.005		
1/30/2019	0.011 (J)			0.0042 (J)		
1/31/2019			<0.02			
3/28/2019	0.0086 (J)		0.0069 (J)	<0.005		
9/12/2019	0.014		0.0089	0.0093		
3/11/2020	0.0099					
3/31/2020			0.0065	<0.005		

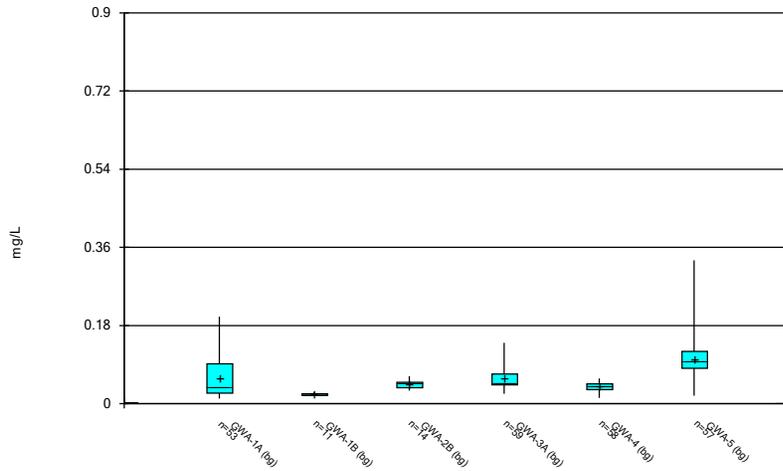
Time Series

Constituent: Zinc (mg/L) Analysis Run 9/30/2024 12:38 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
9/21/2020	0.007					
9/22/2020			0.029	0.017		
3/23/2021	0.0096		0.0085			0.0091
3/24/2021		0.02		0.01	0.013	
8/17/2021	0.052					
8/18/2021		0.15	0.0081	0.012	0.021	0.072
2/7/2022	0.0098					
2/8/2022			0.0078		0.011	
2/9/2022		0.023		0.0039 (J)		0.0069
8/30/2022	0.0089	0.02	0.012	0.0046 (J)		
8/31/2022					0.014	0.0049 (J)
1/31/2023	0.0082	0.018			0.0088	<0.005
2/1/2023			0.0062	<0.005		
3/29/2023		0.02			0.01	0.0056
5/31/2023		0.02			0.0096	0.0049 (J)
7/26/2023		0.019			0.011	0.011
8/28/2023	0.019					
8/29/2023		0.017	0.0065	0.004 (J)	0.01	0.008
1/23/2024	0.0094	0.018	0.0069	0.0041 (J)	0.016	0.0042 (J)
8/19/2024	0.019					
8/20/2024		0.02	0.0067	<0.005	0.015	0.0052

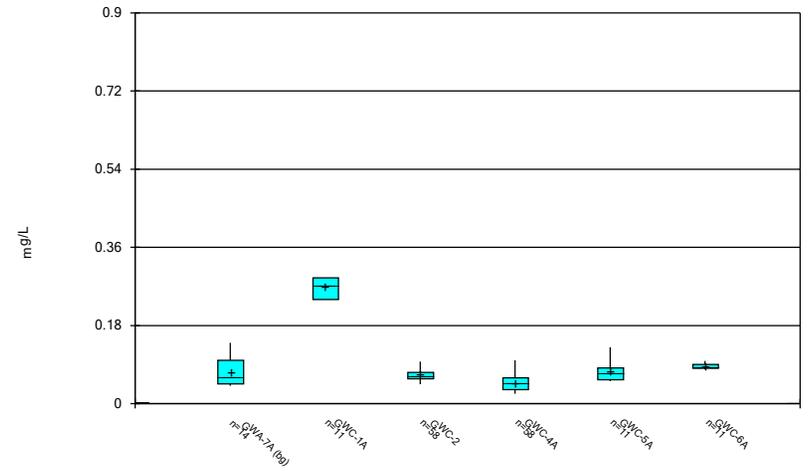
FIGURE B.

Box & Whiskers Plot



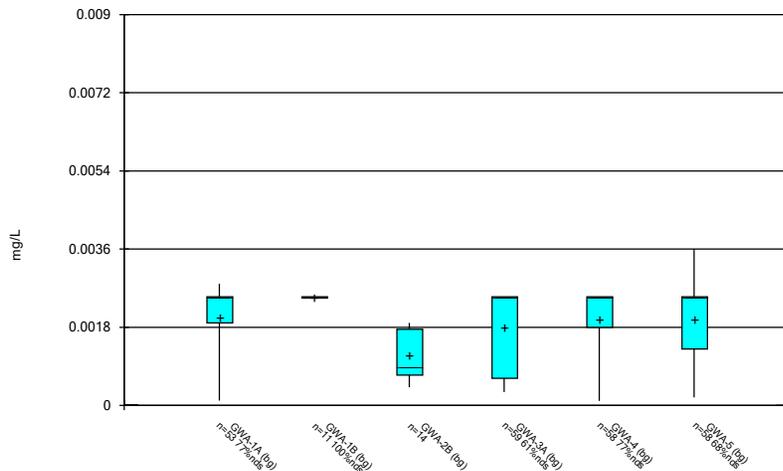
Constituent: Barium Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



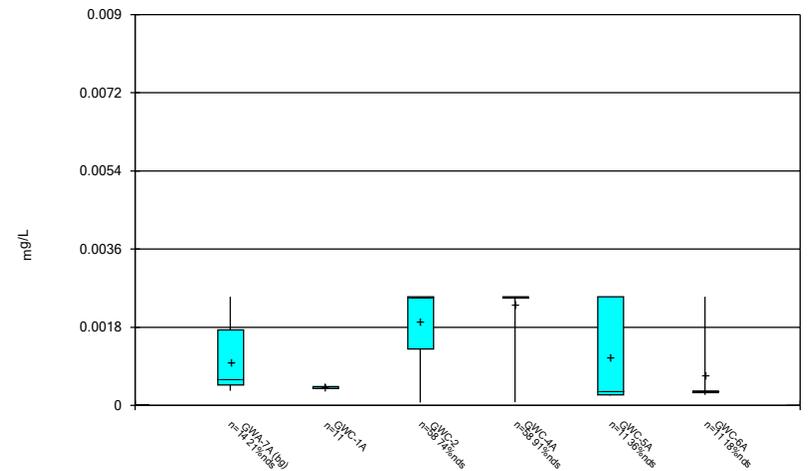
Constituent: Barium Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



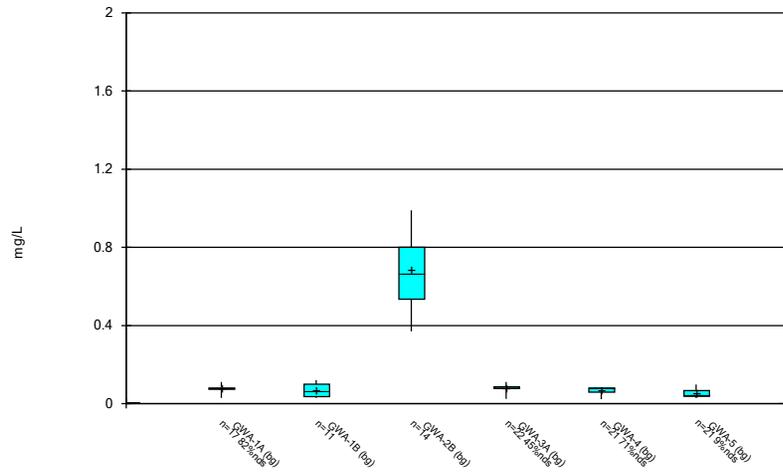
Constituent: Beryllium Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



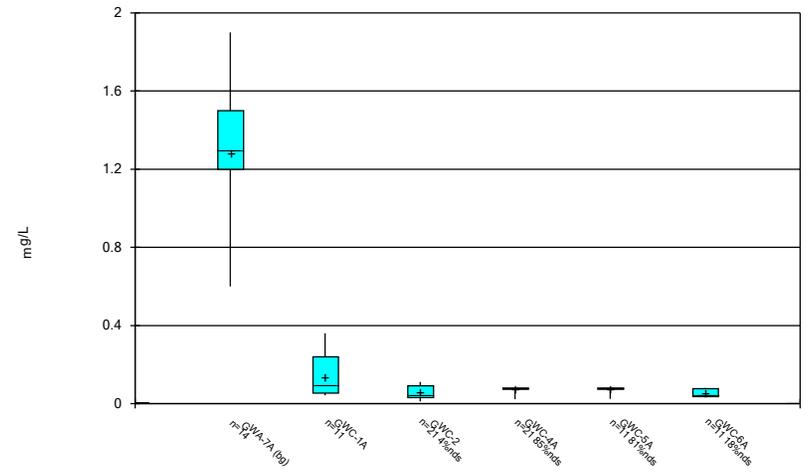
Constituent: Beryllium Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



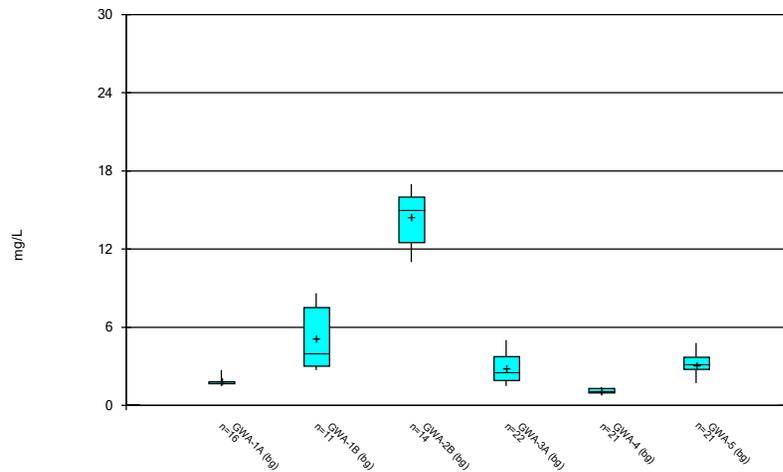
Constituent: Boron Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



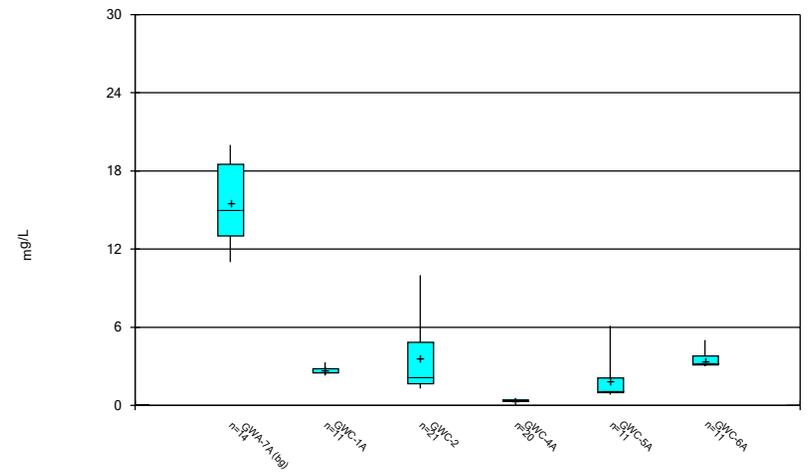
Constituent: Boron Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



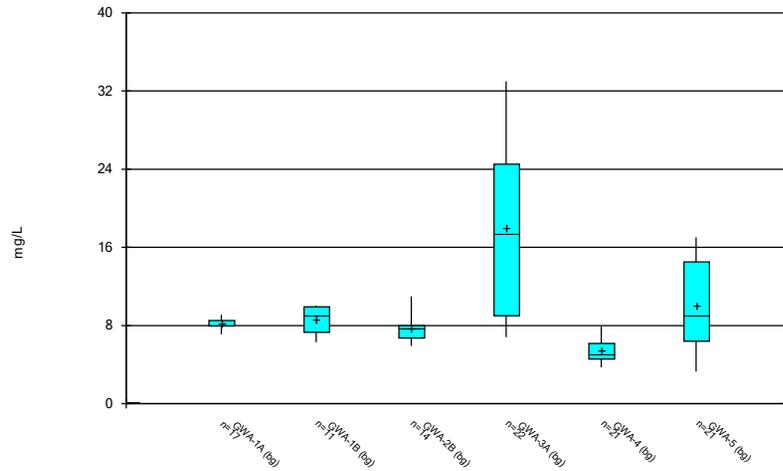
Constituent: Calcium Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



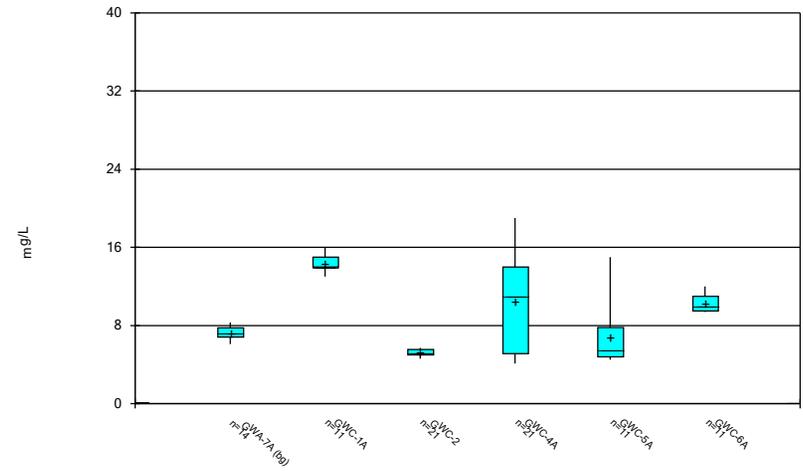
Constituent: Calcium Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



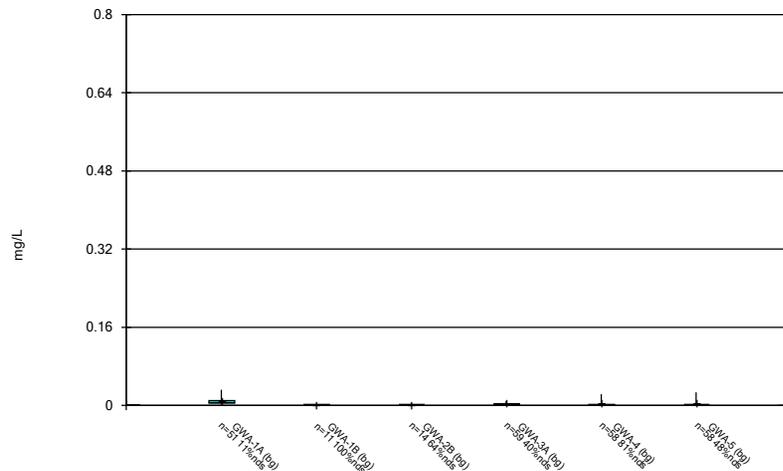
Constituent: Chloride Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



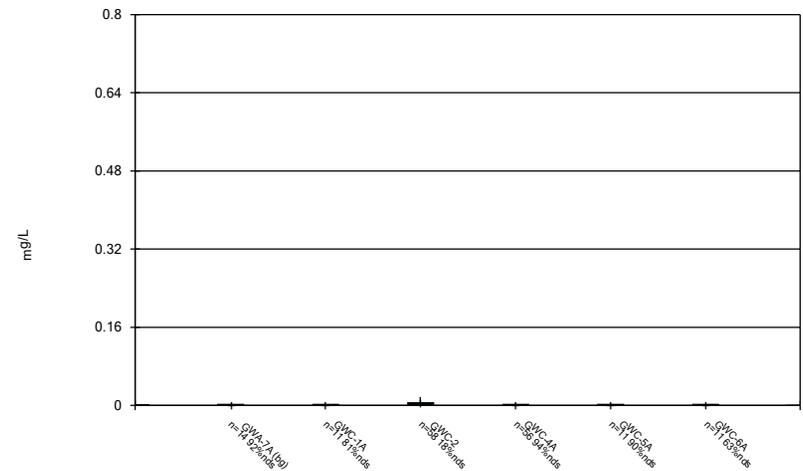
Constituent: Chloride Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



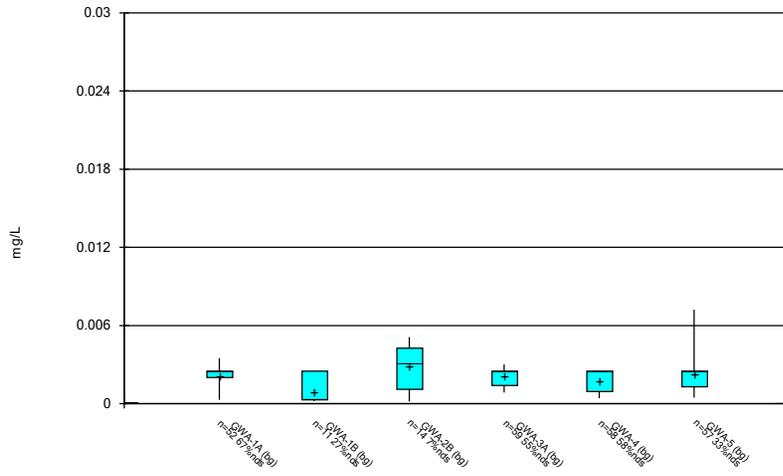
Constituent: Chromium Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



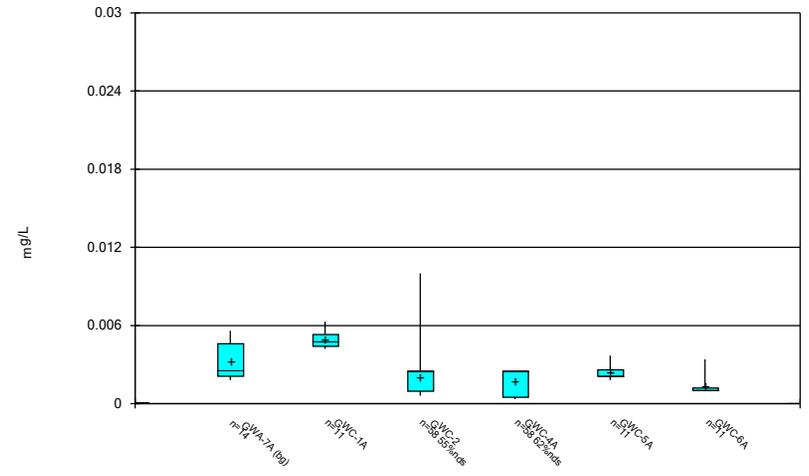
Constituent: Chromium Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



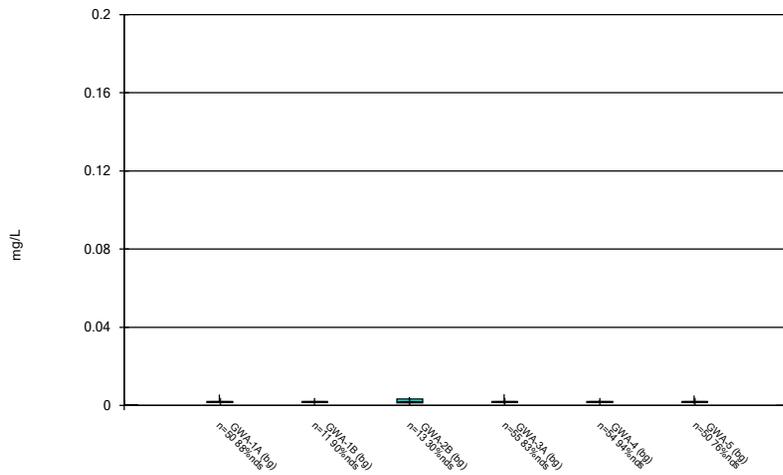
Constituent: Cobalt Analysis Run 9/30/2024 12:39 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



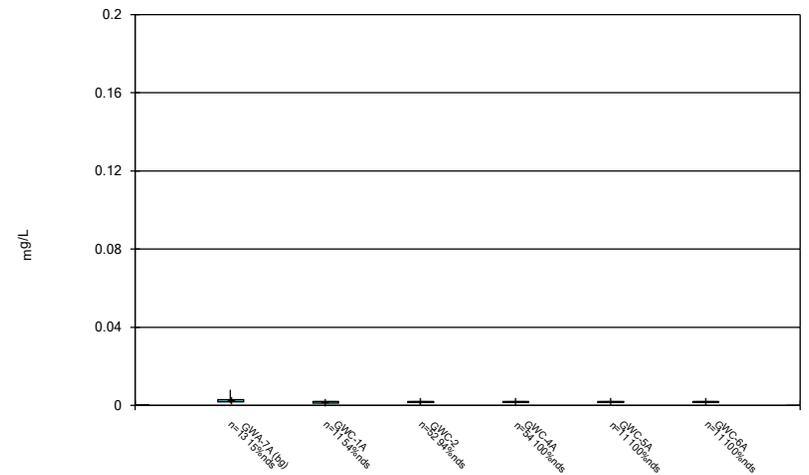
Constituent: Cobalt Analysis Run 9/30/2024 12:39 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



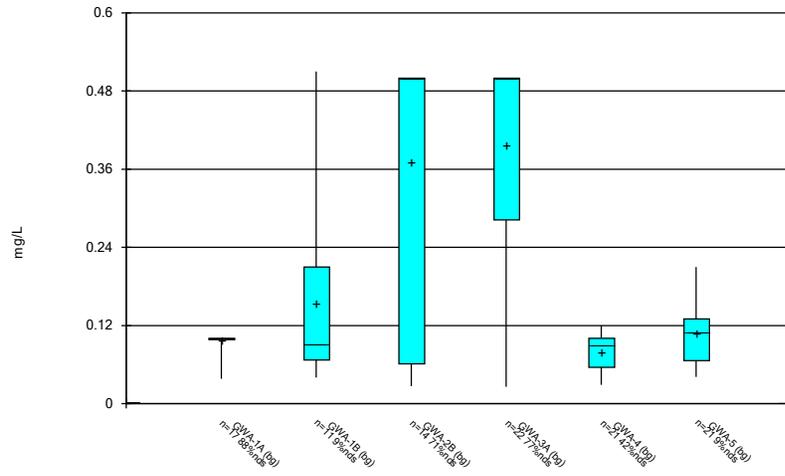
Constituent: Copper Analysis Run 9/30/2024 12:39 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



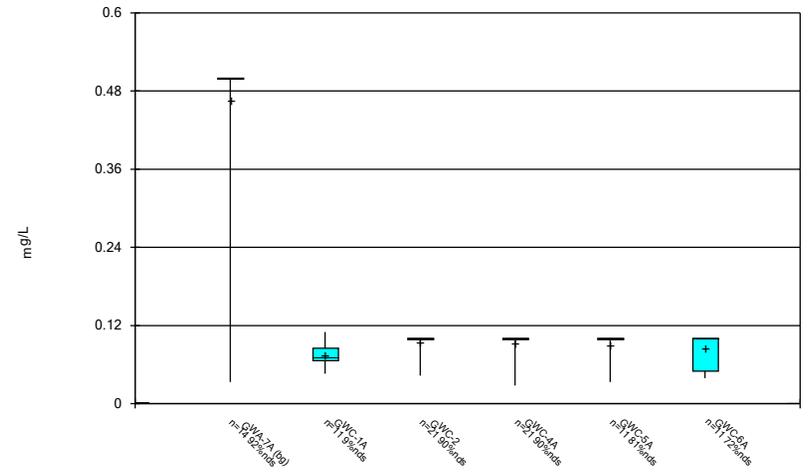
Constituent: Copper Analysis Run 9/30/2024 12:39 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



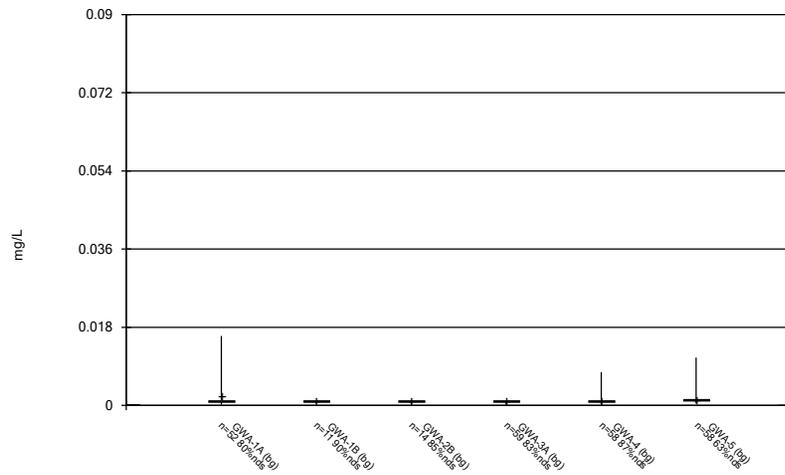
Constituent: Fluoride Analysis Run 9/30/2024 12:39 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



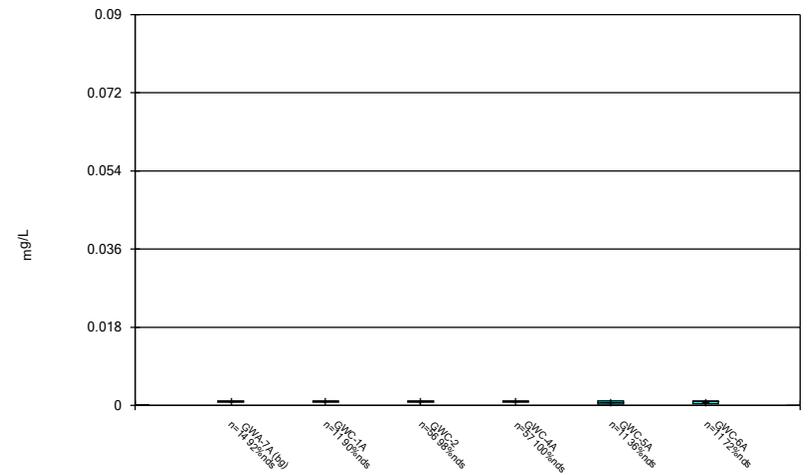
Constituent: Fluoride Analysis Run 9/30/2024 12:39 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



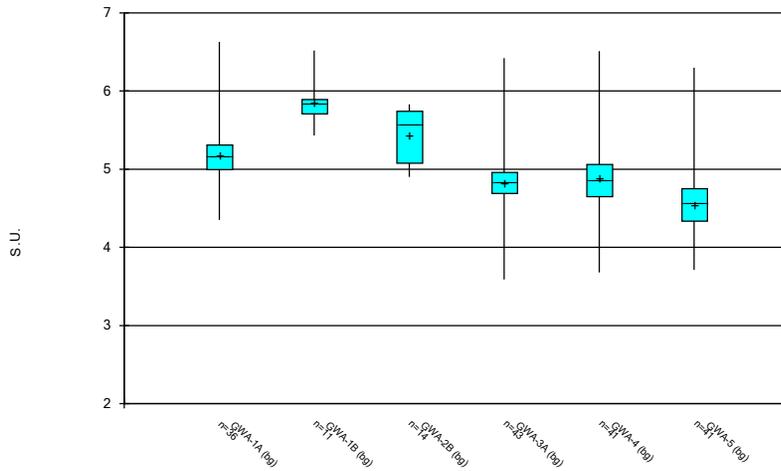
Constituent: Lead Analysis Run 9/30/2024 12:39 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



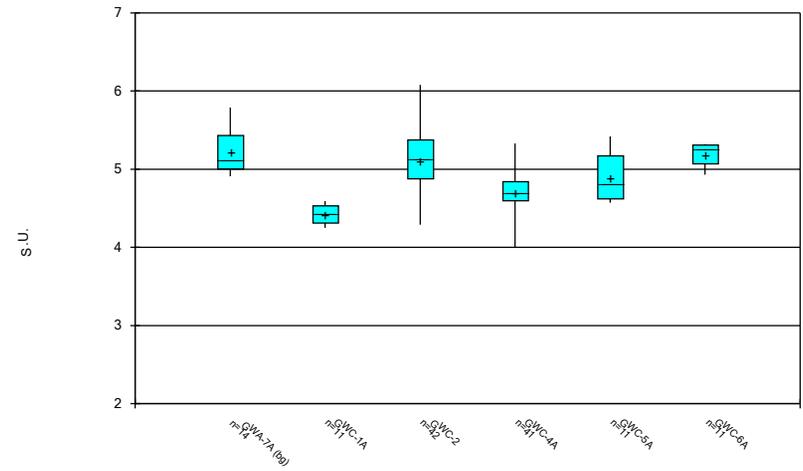
Constituent: Lead Analysis Run 9/30/2024 12:39 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



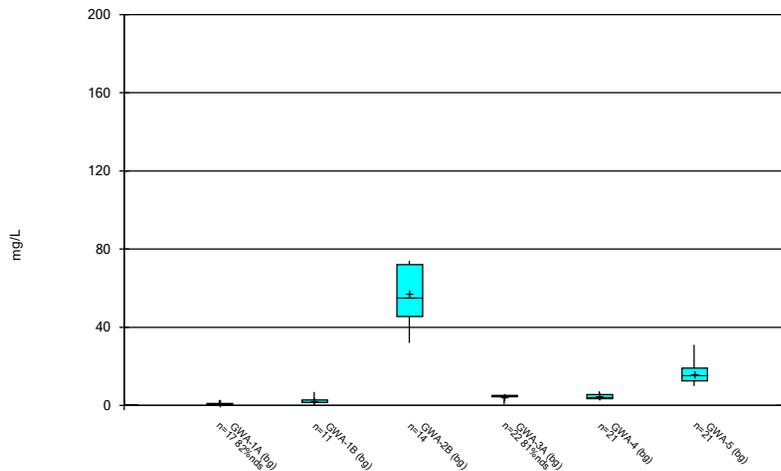
Constituent: pH Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



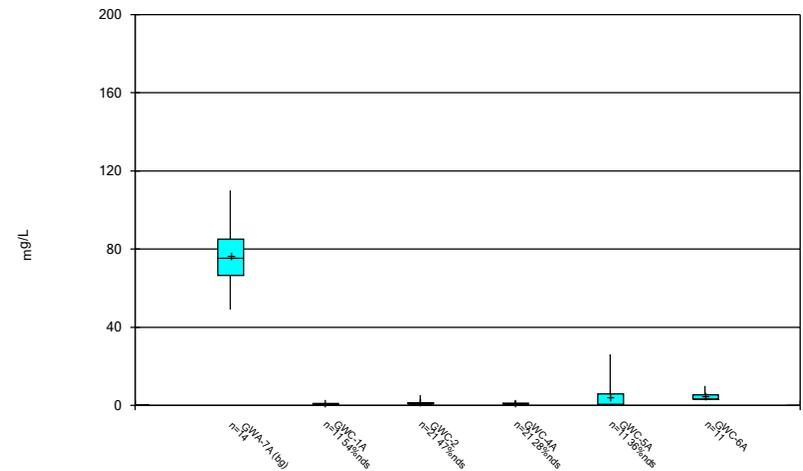
Constituent: pH Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



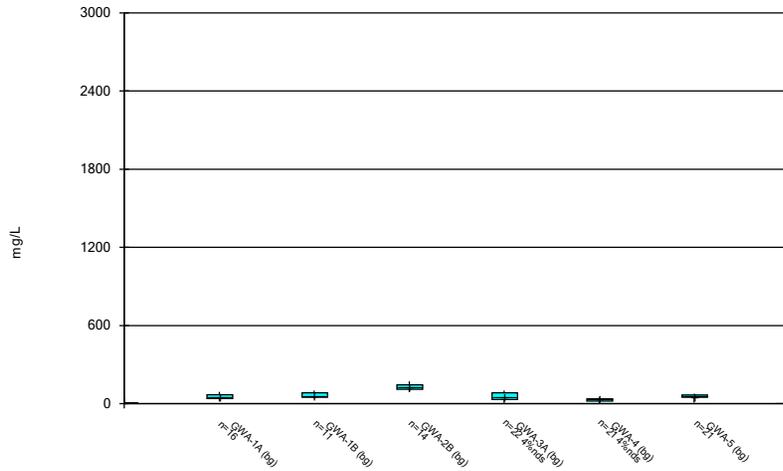
Constituent: Sulfate Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



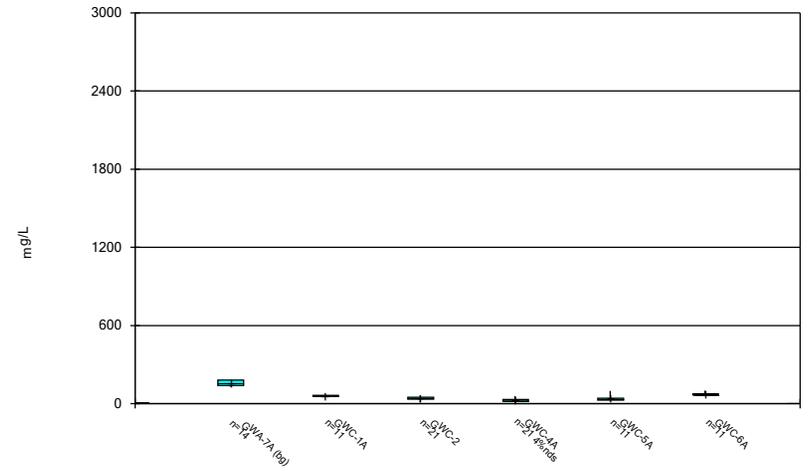
Constituent: Sulfate Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



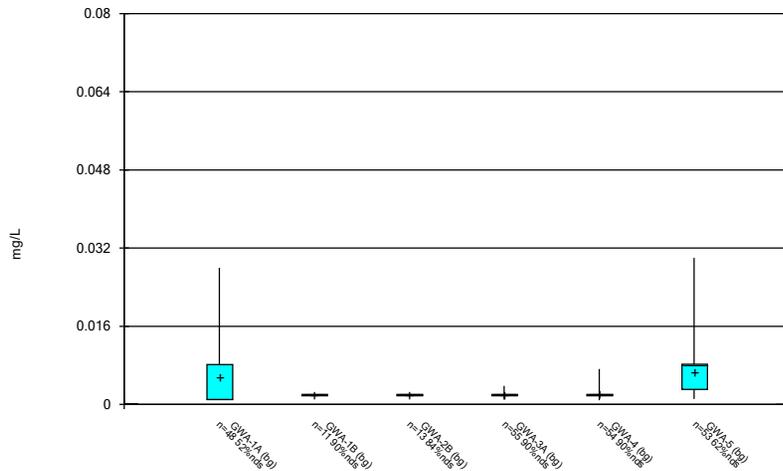
Constituent: Total Dissolved Solids Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



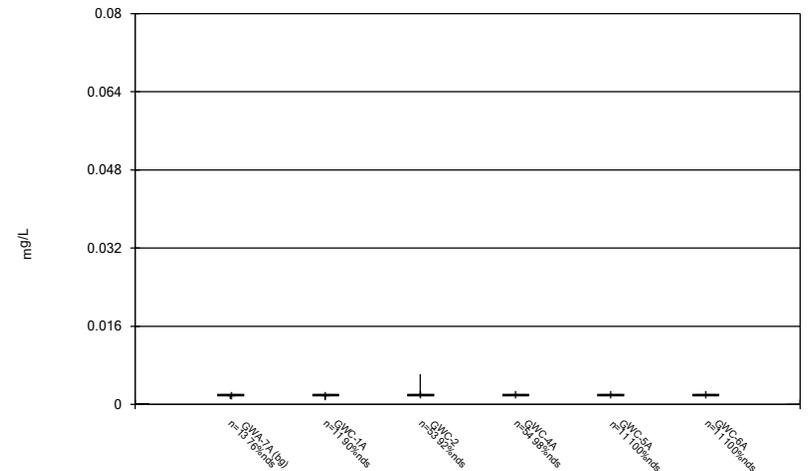
Constituent: Total Dissolved Solids Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



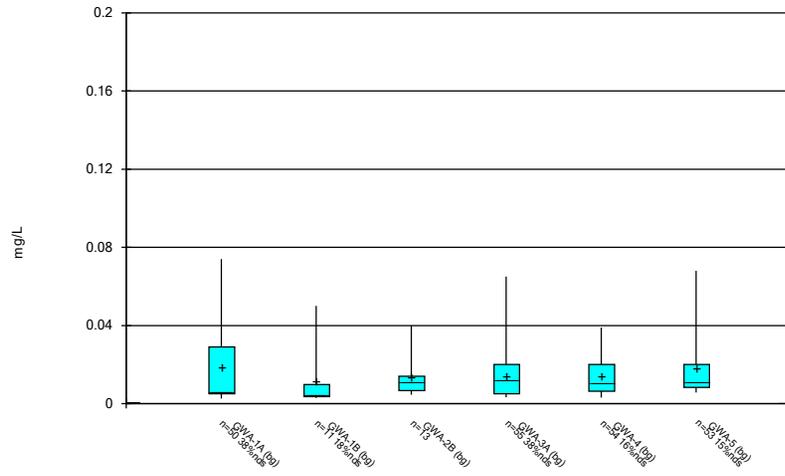
Constituent: Vanadium Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



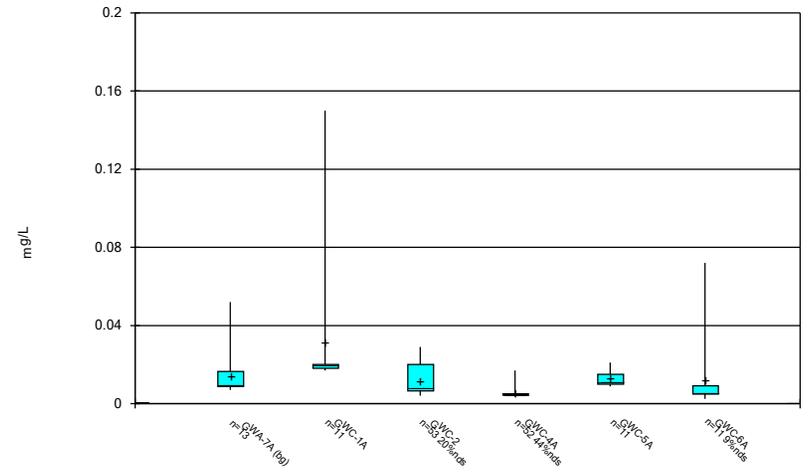
Constituent: Vanadium Analysis Run 9/30/2024 12:39 PM View: Constituents View
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 9/30/2024 12:39 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Box & Whiskers Plot



Constituent: Zinc Analysis Run 9/30/2024 12:39 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

FIGURE C.

Outlier Summary

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 9/30/2024, 12:41 PM

GWC-2 Zinc (mg/L)
GWC-4A Zinc (mg/L)

10/5/1999	
11/12/1999	
12/29/1999	
2/17/2000	
9/13/2000	0.036 (o)
4/4/2002	0.069 (o)
12/6/2002	
6/28/2003	
12/13/2003	
5/28/2004	
12/10/2004	
12/1/2006	0.098 (o)
6/21/2007	
1/17/2014	
9/1/2016	
9/21/2017	
7/10/2018	

FIGURE D.

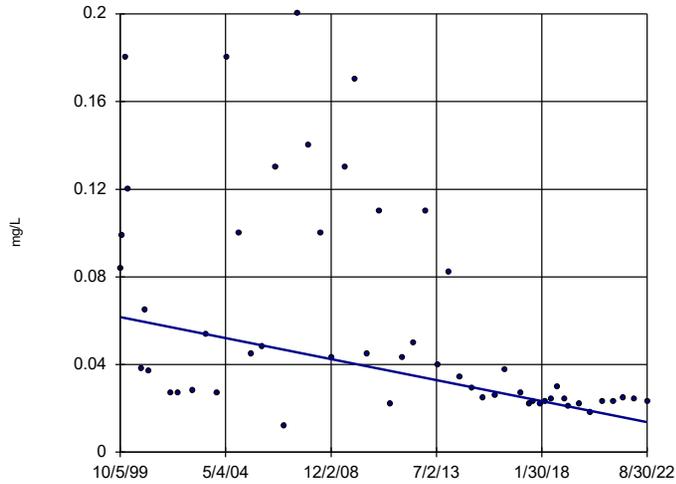
Upgradient Wells Trend Test - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 9/30/2024, 2:42 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Barium (mg/L)	GWA-1A (bg)	-0.002091	-4.785	-2.58	Yes	53	0	n/a	0.01	NP
Barium (mg/L)	GWA-3A (bg)	0.002001	8.004	2.58	Yes	59	0	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	0.0009595	6.77	2.58	Yes	58	0	n/a	0.01	NP
Barium (mg/L)	GWA-7A (bg)	-0.01014	-63	-48	Yes	14	0	n/a	0.01	NP
Beryllium (mg/L)	GWA-1A (bg)	0	-3.562	-2.58	Yes	53	77.36	n/a	0.01	NP
Beryllium (mg/L)	GWA-3A (bg)	0	-4.421	-2.58	Yes	59	61.02	n/a	0.01	NP
Beryllium (mg/L)	GWA-4 (bg)	0	-3.732	-2.58	Yes	58	77.59	n/a	0.01	NP
Beryllium (mg/L)	GWA-5 (bg)	0	-3.919	-2.58	Yes	58	68.97	n/a	0.01	NP
Calcium (mg/L)	GWA-2B (bg)	-0.8026	-52	-48	Yes	14	0	n/a	0.01	NP
Calcium (mg/L)	GWA-3A (bg)	0.4534	209	92	Yes	22	0	n/a	0.01	NP
Calcium (mg/L)	GWA-4 (bg)	0.06573	112	87	Yes	21	0	n/a	0.01	NP
Chloride (mg/L)	GWA-3A (bg)	3.609	223	92	Yes	22	0	n/a	0.01	NP
Cobalt (mg/L)	GWA-1A (bg)	0	-4.074	-2.58	Yes	52	67.31	n/a	0.01	NP
Cobalt (mg/L)	GWA-4 (bg)	-0.00007038	-5.269	-2.58	Yes	58	58.62	n/a	0.01	NP
Cobalt (mg/L)	GWA-5 (bg)	-0.00007271	-5.474	-2.58	Yes	57	33.33	n/a	0.01	NP
Cobalt (mg/L)	GWA-7A (bg)	-0.000588	-77	-48	Yes	14	0	n/a	0.01	NP
Copper (mg/L)	GWA-5 (bg)	0	-3.145	-2.58	Yes	50	76	n/a	0.01	NP
Lead (mg/L)	GWA-1A (bg)	0	-3.316	-2.58	Yes	52	80.77	n/a	0.01	NP
Lead (mg/L)	GWA-3A (bg)	0	-4.136	-2.58	Yes	59	83.05	n/a	0.01	NP
Lead (mg/L)	GWA-5 (bg)	-2.2e-13	-5.267	-2.58	Yes	58	63.79	n/a	0.01	NP
pH (S.U.)	GWA-3A (bg)	-0.0136	-3.1	-2.58	Yes	43	0	n/a	0.01	NP
Sulfate (mg/L)	GWA-1B (bg)	-1.078	-39	-34	Yes	11	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-3A (bg)	9.971	152	92	Yes	22	4.545	n/a	0.01	NP
Vanadium (mg/L)	GWA-5 (bg)	-0.00005969	-4.812	-2.58	Yes	53	62.26	n/a	0.01	NP

Sen's Slope Estimator

GWA-1A (bg)

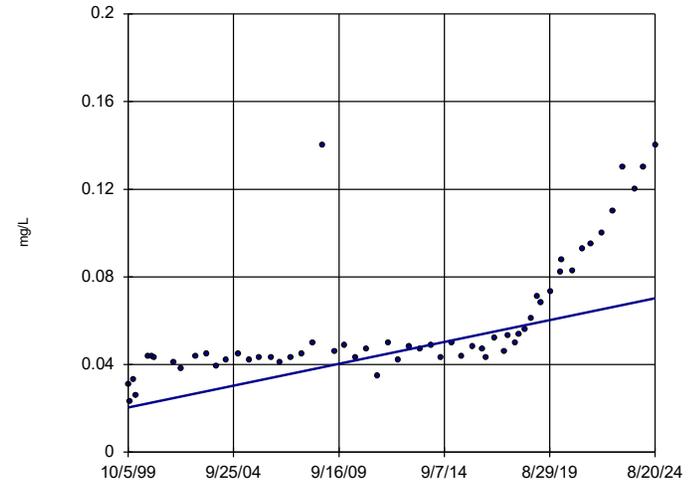


n = 53
 Slope = -0.002091
 units per year.
 Mann-Kendall
 normal approx. =
 -4.785
 critical = -2.58
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Barium Analysis Run 9/30/2024 2:40 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-3A (bg)

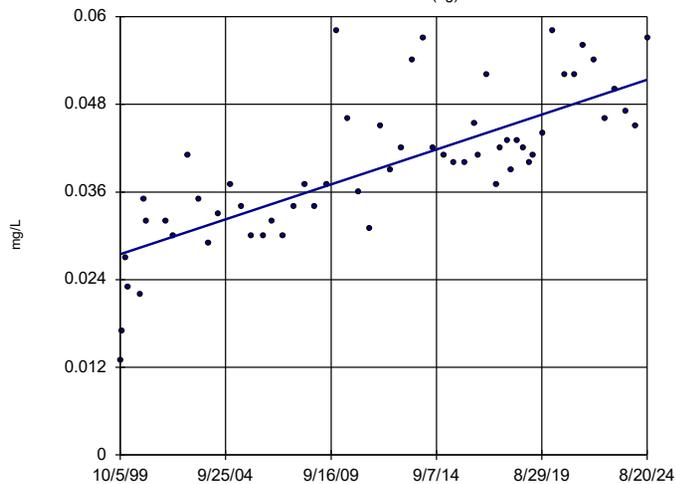


n = 59
 Slope = 0.002001
 units per year.
 Mann-Kendall
 normal approx. =
 8.004
 critical = 2.58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Barium Analysis Run 9/30/2024 2:40 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-4 (bg)

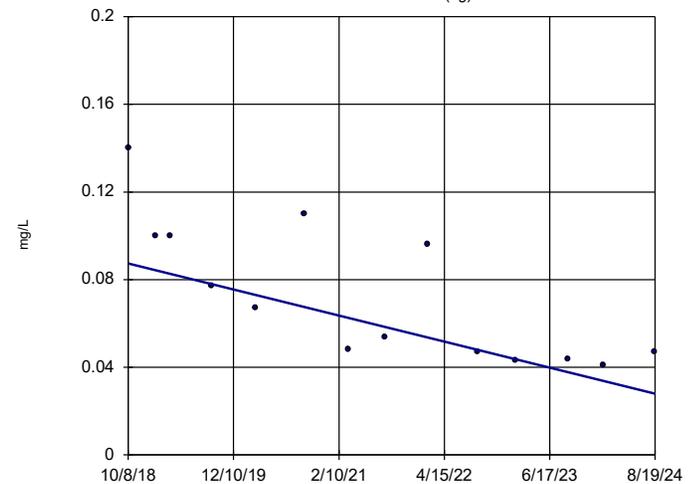


n = 58
 Slope = 0.0009595
 units per year.
 Mann-Kendall
 normal approx. =
 6.77
 critical = 2.58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Barium Analysis Run 9/30/2024 2:40 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-7A (bg)

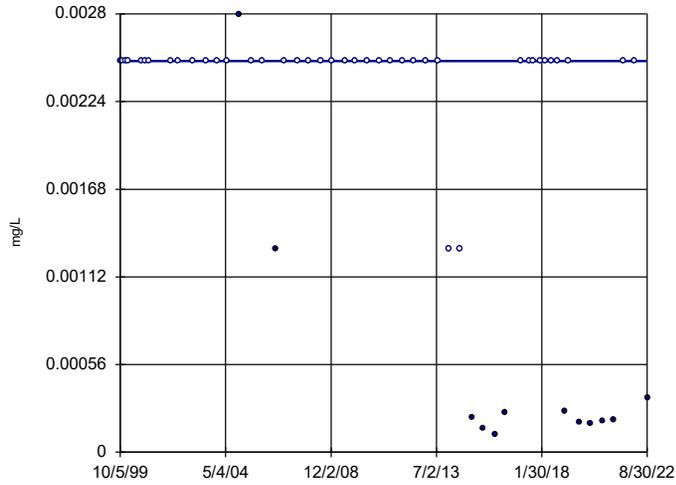


n = 14
 Slope = -0.01014
 units per year.
 Mann-Kendall
 statistic = -63
 critical = -48
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Barium Analysis Run 9/30/2024 2:40 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-1A (bg)

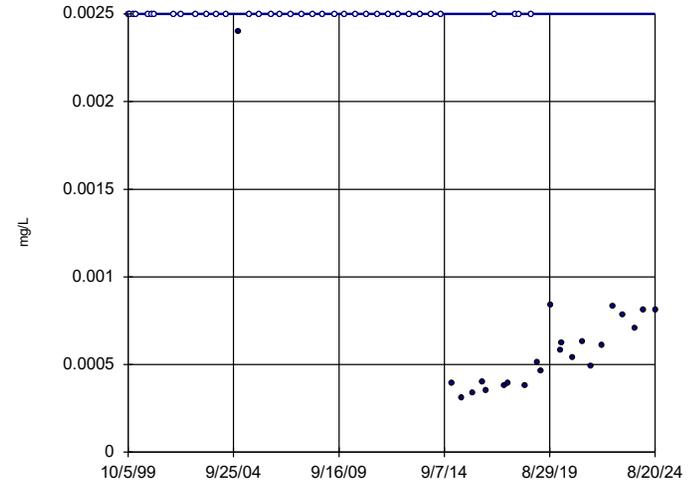


n = 53
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-3.562
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 9/30/2024 2:40 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-3A (bg)

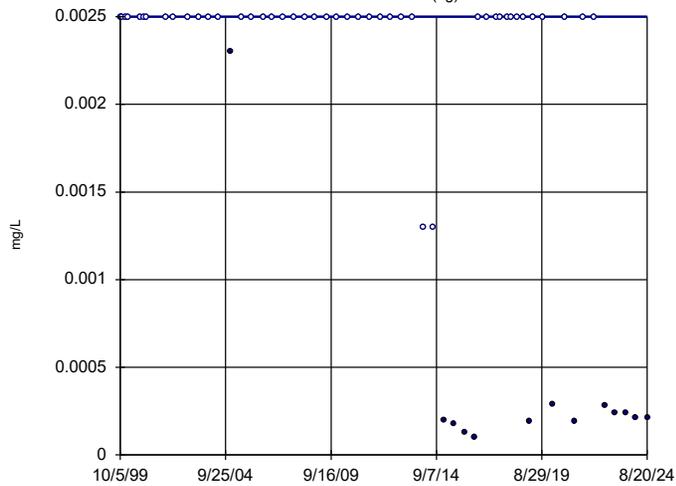


n = 59
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-4.421
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 9/30/2024 2:40 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-4 (bg)

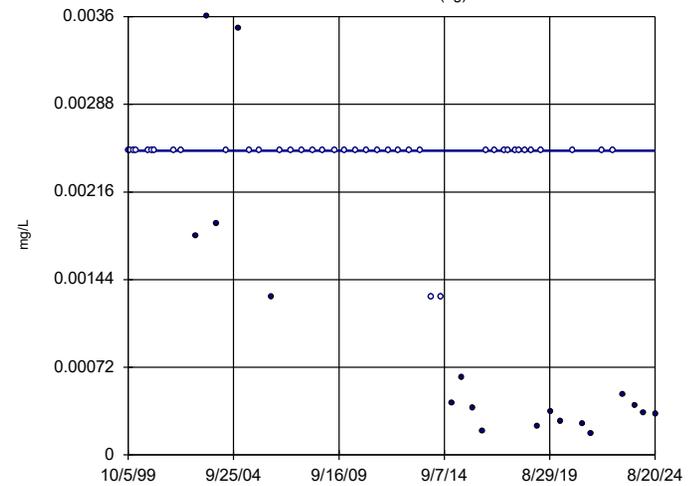


n = 58
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-3.732
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 9/30/2024 2:40 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-5 (bg)

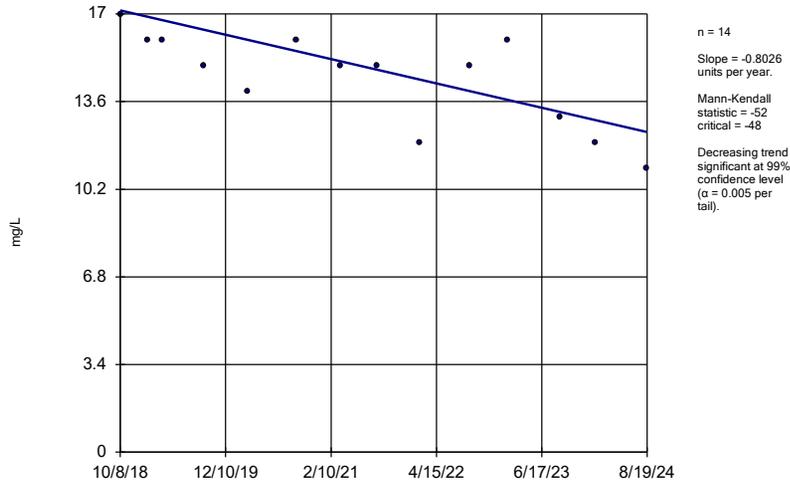


n = 58
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-3.919
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 9/30/2024 2:40 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

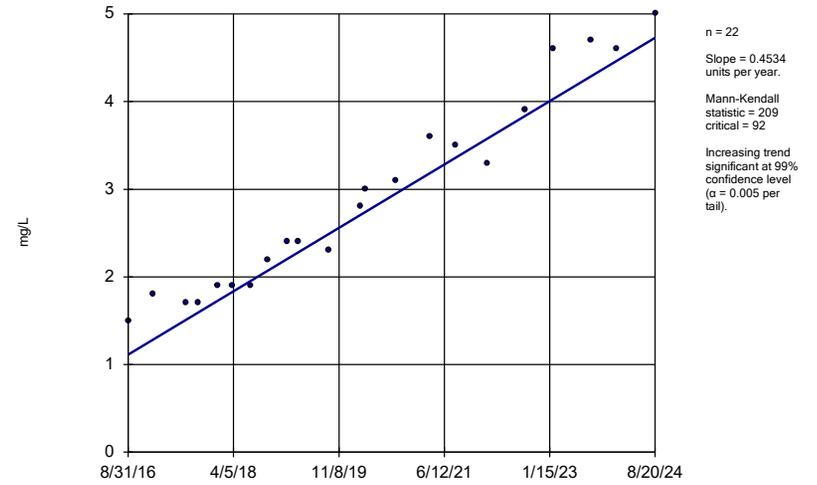
GWA-2B (bg)



Constituent: Calcium Analysis Run 9/30/2024 2:41 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

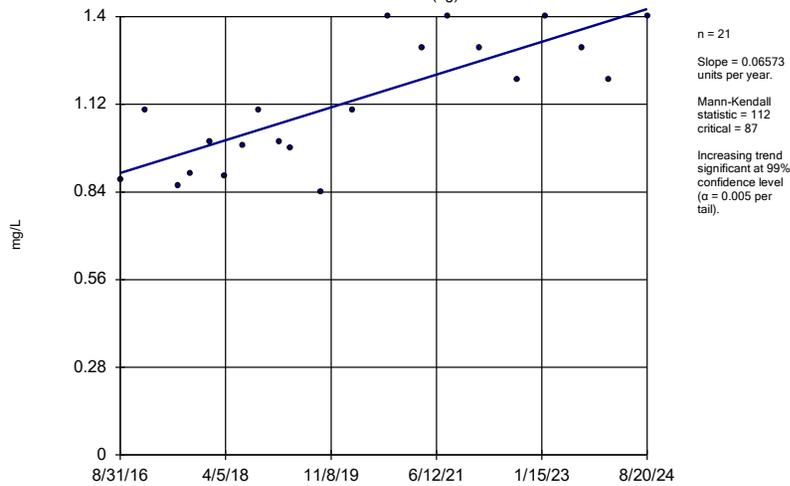
GWA-3A (bg)



Constituent: Calcium Analysis Run 9/30/2024 2:41 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

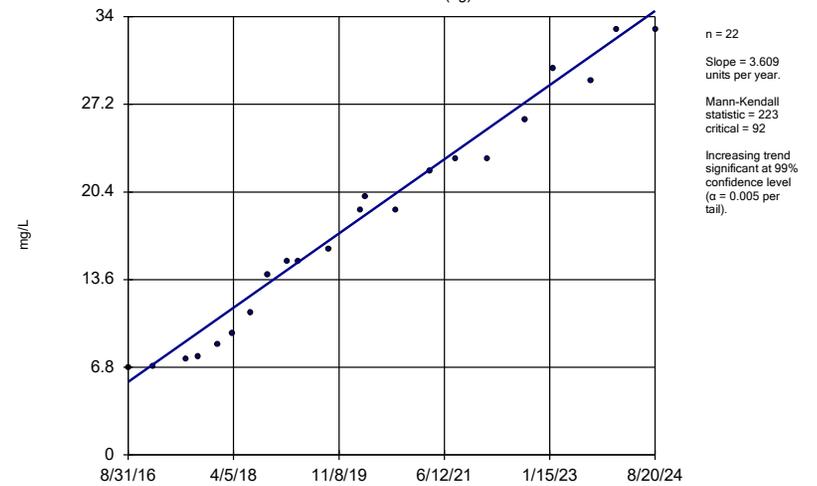
GWA-4 (bg)



Constituent: Calcium Analysis Run 9/30/2024 2:41 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

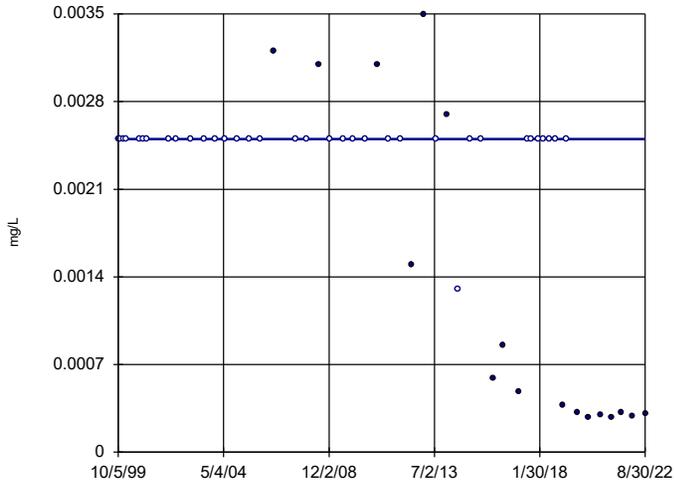
GWA-3A (bg)



Constituent: Chloride Analysis Run 9/30/2024 2:41 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-1A (bg)

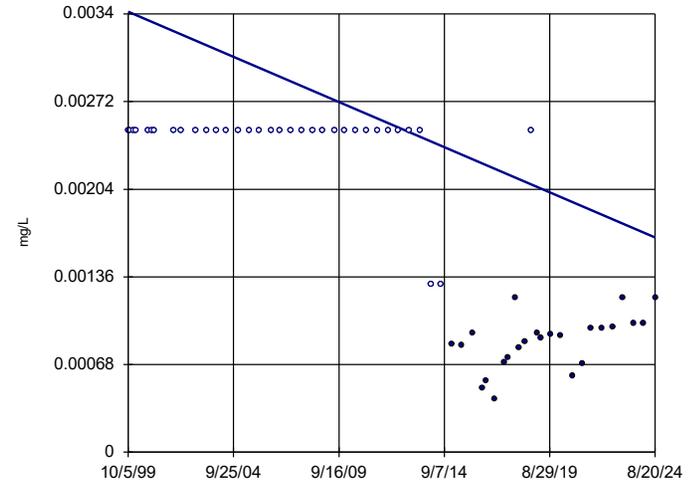


n = 52
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-4.074
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 9/30/2024 2:41 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-4 (bg)

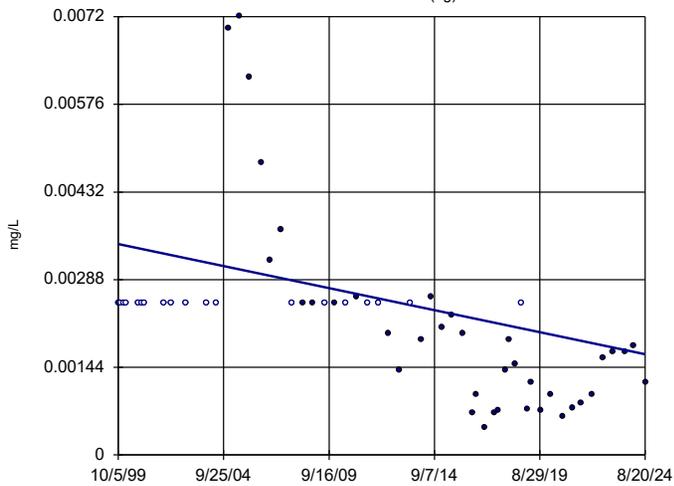


n = 58
Slope = -0.00007038
units per year.
Mann-Kendall
normal approx. =
-5.269
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 9/30/2024 2:41 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-5 (bg)

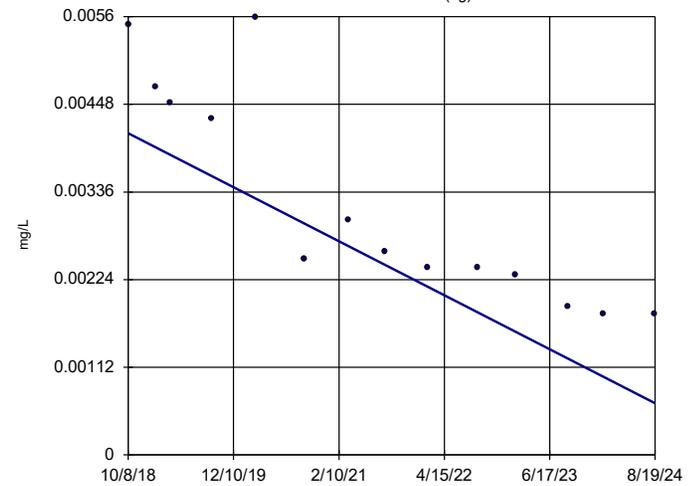


n = 57
Slope = -0.00007271
units per year.
Mann-Kendall
normal approx. =
-5.474
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 9/30/2024 2:41 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-7A (bg)

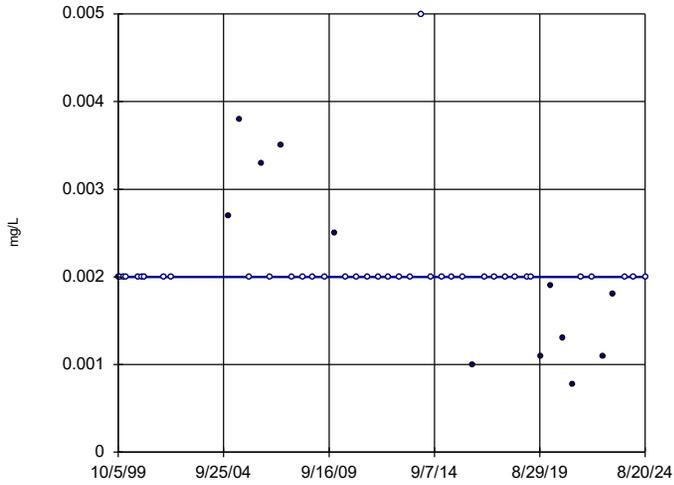


n = 14
Slope = -0.000588
units per year.
Mann-Kendall
statistic = -77
critical = -48
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 9/30/2024 2:41 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-5 (bg)

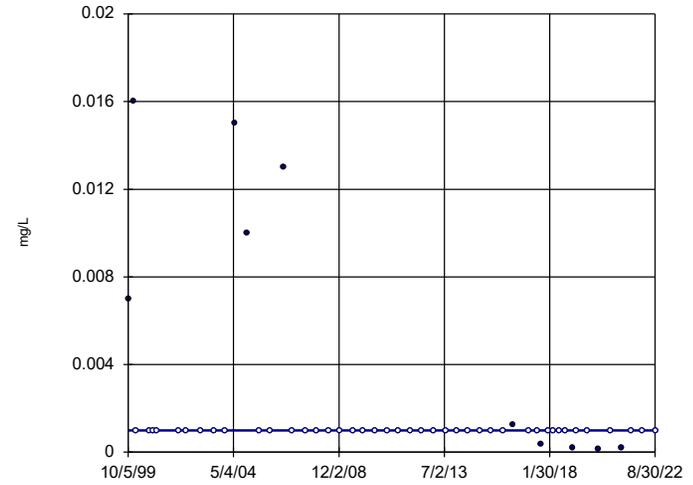


n = 50
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-3.145
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Copper Analysis Run 9/30/2024 2:41 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-1A (bg)

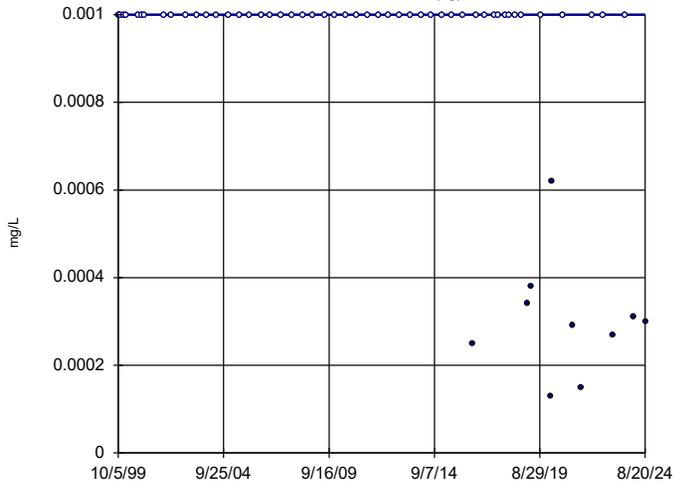


n = 52
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-3.316
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Lead Analysis Run 9/30/2024 2:41 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-3A (bg)

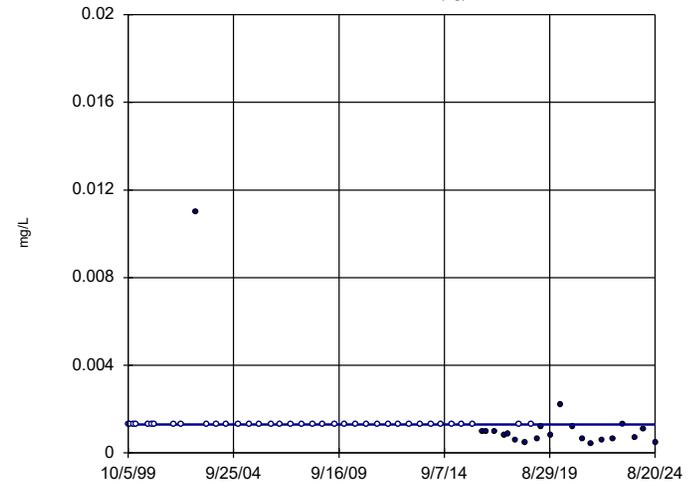


n = 59
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-4.136
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Lead Analysis Run 9/30/2024 2:41 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-5 (bg)

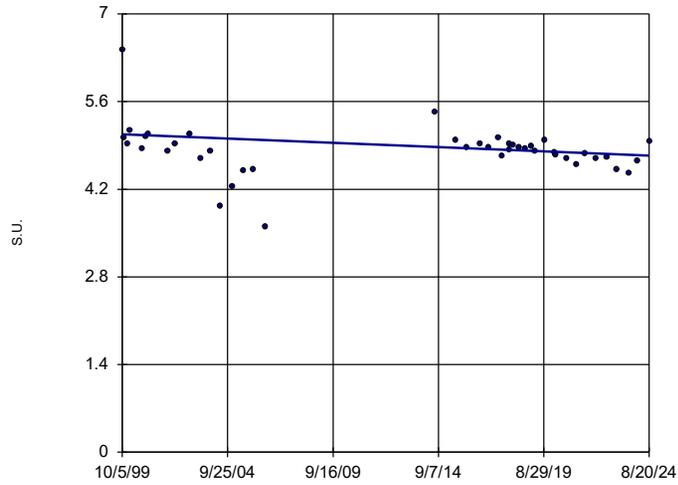


n = 58
Slope = -2.2e-13
units per year.
Mann-Kendall
normal approx. =
-5.267
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Lead Analysis Run 9/30/2024 2:41 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-3A (bg)

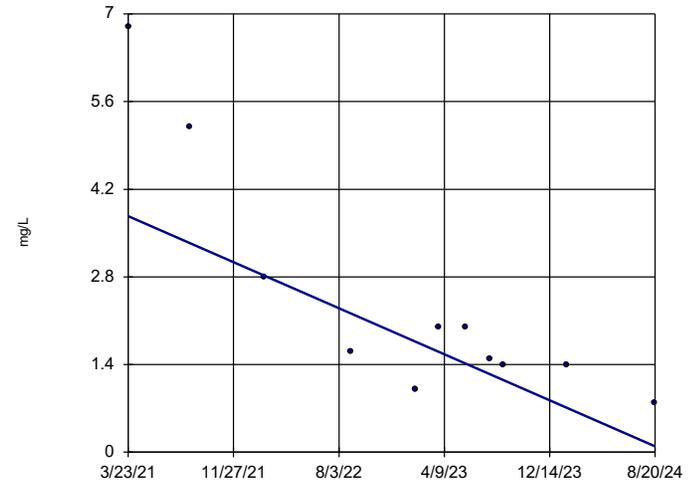


n = 43
 Slope = -0.0136 units per year.
 Mann-Kendall normal approx. = -3.1
 critical = -2.58
 Decreasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: pH Analysis Run 9/30/2024 2:41 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-1B (bg)

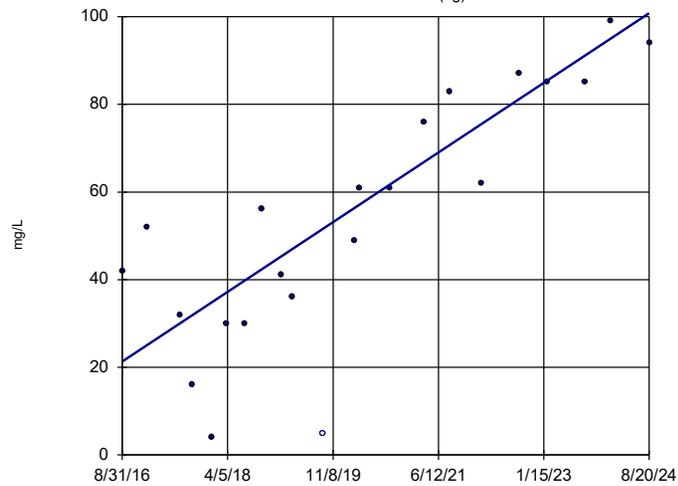


n = 11
 Slope = -1.078 units per year.
 Mann-Kendall statistic = -.39
 critical = -.34
 Decreasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Sulfate Analysis Run 9/30/2024 2:41 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-3A (bg)

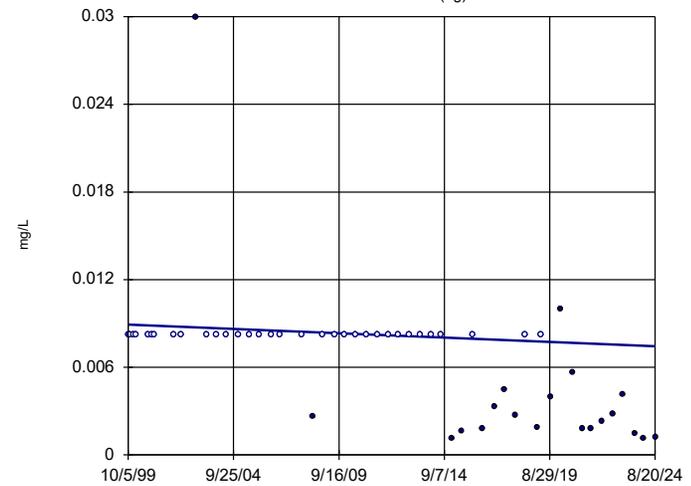


n = 22
 Slope = 9.971 units per year.
 Mann-Kendall statistic = 152
 critical = 92
 Increasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Total Dissolved Solids Analysis Run 9/30/2024 2:41 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sen's Slope Estimator

GWA-5 (bg)



n = 53
 Slope = -0.00005969 units per year.
 Mann-Kendall normal approx. = -4.812
 critical = -2.58
 Decreasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Vanadium Analysis Run 9/30/2024 2:41 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

FIGURE E.

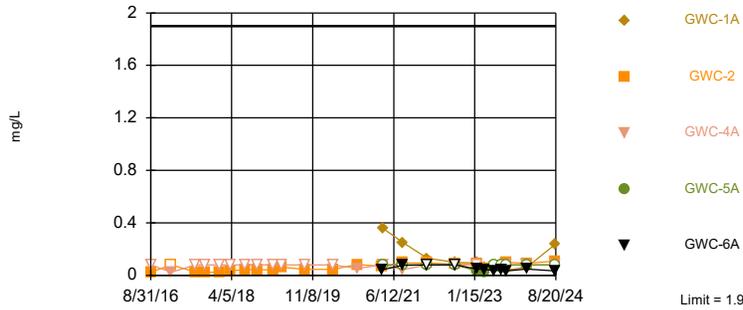
Appendix III - Interwell Prediction Limits - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 9/30/2024, 7:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-1A	1.9	n/a	8/20/2024	0.24	No	120	n/a	n/a	34.17	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	1.9	n/a	8/20/2024	0.11	No	120	n/a	n/a	34.17	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4A	1.9	n/a	8/20/2024	0.08ND	No	120	n/a	n/a	34.17	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-5A	1.9	n/a	8/20/2024	0.08ND	No	120	n/a	n/a	34.17	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6A	1.9	n/a	8/20/2024	0.034J	No	120	n/a	n/a	34.17	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1A	20	n/a	8/20/2024	2.6	No	119	n/a	n/a	0	n/a	n/a	0.000138	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	20	n/a	8/20/2024	10	No	119	n/a	n/a	0	n/a	n/a	0.000138	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4A	20	n/a	8/20/2024	0.36J	No	119	n/a	n/a	0	n/a	n/a	0.000138	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5A	20	n/a	8/20/2024	1.6	No	119	n/a	n/a	0	n/a	n/a	0.000138	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6A	20	n/a	8/20/2024	3.2	No	119	n/a	n/a	0	n/a	n/a	0.000138	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1A	33	n/a	8/20/2024	15	No	120	n/a	n/a	0	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	33	n/a	8/20/2024	5	No	120	n/a	n/a	0	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4A	33	n/a	8/20/2024	4.9	No	120	n/a	n/a	0	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5A	33	n/a	8/20/2024	10	No	120	n/a	n/a	0	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6A	33	n/a	8/20/2024	11	No	120	n/a	n/a	0	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1A	0.51	n/a	8/20/2024	0.1ND	No	120	n/a	n/a	55.83	n/a	n/a	0.0001351	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-2	0.51	n/a	8/20/2024	0.1ND	No	120	n/a	n/a	55.83	n/a	n/a	0.0001351	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-4A	0.51	n/a	8/20/2024	0.1ND	No	120	n/a	n/a	55.83	n/a	n/a	0.0001351	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-5A	0.51	n/a	8/20/2024	0.1ND	No	120	n/a	n/a	55.83	n/a	n/a	0.0001351	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6A	0.51	n/a	8/20/2024	0.1ND	No	120	n/a	n/a	55.83	n/a	n/a	0.0001351	NP Inter (NDs) 1 of 2
pH (S.U.)	GWC-1A	5.894	4.038	8/20/2024	4.52	No	200	4.966	0.5192	0	None	No	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-2	5.894	4.038	8/20/2024	5.6	No	200	4.966	0.5192	0	None	No	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-4A	5.894	4.038	8/20/2024	4.68	No	200	4.966	0.5192	0	None	No	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-5A	5.894	4.038	8/20/2024	4.78	No	200	4.966	0.5192	0	None	No	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-6A	5.894	4.038	8/20/2024	5.3	No	200	4.966	0.5192	0	None	No	0.000752	Param Inter 1 of 2
Sulfate (mg/L)	GWC-1A	110	n/a	8/20/2024	0.48J	No	120	n/a	n/a	26.67	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	110	n/a	8/20/2024	5.1	No	120	n/a	n/a	26.67	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4A	110	n/a	8/20/2024	0.95J	No	120	n/a	n/a	26.67	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5A	110	n/a	8/20/2024	0.52J	No	120	n/a	n/a	26.67	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6A	110	n/a	8/20/2024	3.2	No	120	n/a	n/a	26.67	n/a	n/a	0.0001351	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-1A	167	n/a	8/20/2024	56	No	119	7.988	2.746	1.681	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-2	167	n/a	8/20/2024	60	No	119	7.988	2.746	1.681	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-4A	167	n/a	8/20/2024	23	No	119	7.988	2.746	1.681	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-5A	167	n/a	8/20/2024	39	No	119	7.988	2.746	1.681	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-6A	167	n/a	8/20/2024	71	No	119	7.988	2.746	1.681	None	sqrt(x)	0.001504	Param Inter 1 of 2

Within Limit

Prediction Limit
Interwell Non-parametric

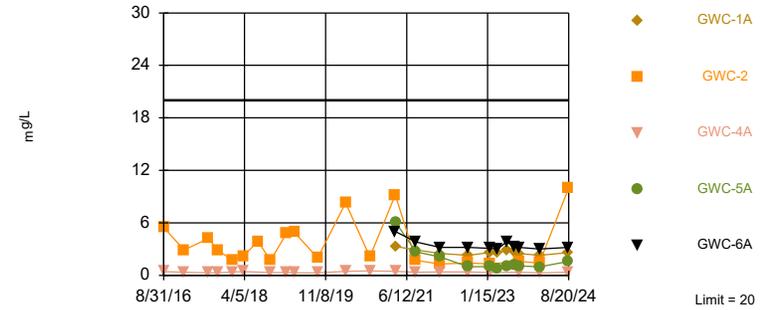


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 120 background values. 34.17% NDs. Annual per-constituent alpha = 0.00135. Individual comparison alpha = 0.0001351 (1 of 2). Comparing 5 points to limit.

Constituent: Boron Analysis Run 9/30/2024 7:11 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

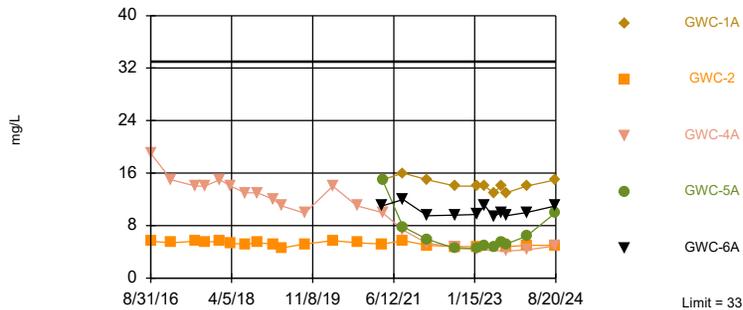


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 119 background values. Annual per-constituent alpha = 0.001379. Individual comparison alpha = 0.000138 (1 of 2). Comparing 5 points to limit.

Constituent: Calcium Analysis Run 9/30/2024 7:11 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

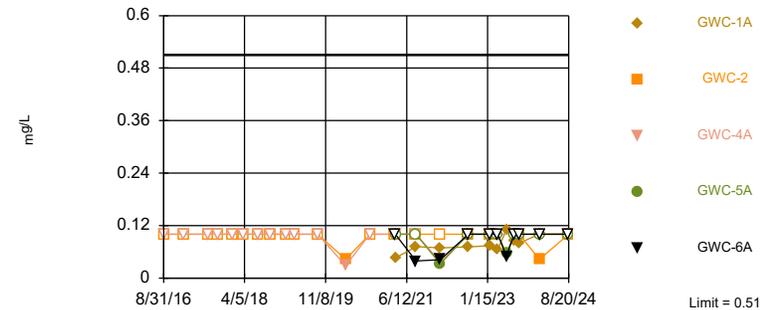


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 120 background values. Annual per-constituent alpha = 0.00135. Individual comparison alpha = 0.0001351 (1 of 2). Comparing 5 points to limit.

Constituent: Chloride Analysis Run 9/30/2024 7:11 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

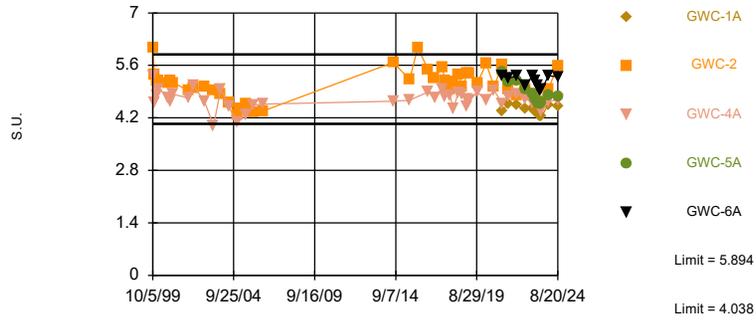


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 120 background values. 55.83% NDs. Annual per-constituent alpha = 0.00135. Individual comparison alpha = 0.0001351 (1 of 2). Comparing 5 points to limit.

Constituent: Fluoride Analysis Run 9/30/2024 7:11 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limits

Prediction Limit
Interwell Parametric



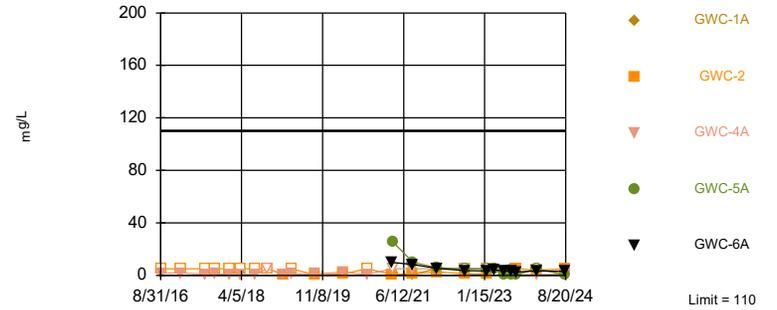
Background Data Summary: Mean=4.966, Std. Dev.=0.5192, n=200. Normality test: Chi Squared @alpha = 0.01, calculated = 13.8, critical = 14.07. Kappa = 1.788 (c=7, w=5, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.000752. Comparing 5 points to limit.

Constituent: pH Analysis Run 9/30/2024 7:11 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric



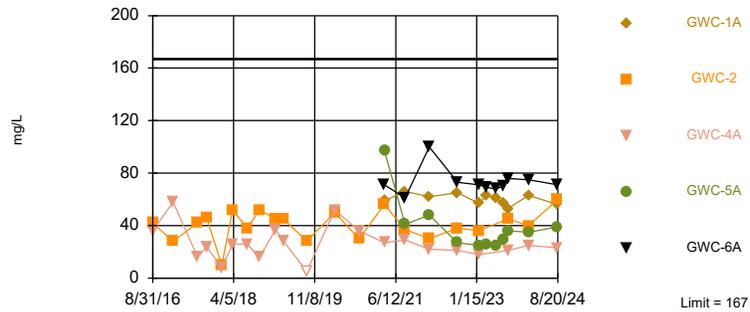
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 120 background values. 26.67% NDs. Annual per-constituent alpha = 0.00135. Individual comparison alpha = 0.0001351 (1 of 2). Comparing 5 points to limit.

Constituent: Sulfate Analysis Run 9/30/2024 7:11 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Parametric



Background Data Summary (based on square root transformation): Mean=7.988, Std. Dev.=2.746, n=119, 1.681% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 9.992, critical = 14.07. Kappa = 1.797 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001504. Comparing 5 points to limit.

Constituent: Total Dissolved Solids Analysis Run 9/30/2024 7:11 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-5 (bg)	GWA-4 (bg)	GWC-2	GWA-3A (bg)	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
8/31/2016	0.073	<0.08	0.023 (J)	<0.08	<0.08				
9/1/2016						0.029 (J)			
1/19/2017	0.036 (J)	0.027 (J)		<0.08					
1/24/2017			<0.08						
1/25/2017					0.023 (J)				
2/28/2017						<0.08			
7/17/2017						<0.08			
7/18/2017		<0.08		<0.08					
7/19/2017	0.07		0.026 (J)						
7/20/2017					<0.08				
9/20/2017				<0.08		<0.08			
9/21/2017	0.07	<0.08	0.025 (J)		<0.08				
1/8/2018						<0.08			
1/9/2018	0.042 (J)	<0.08	0.023 (J)	<0.08	<0.08				
3/27/2018	0.037 (J)	<0.08		<0.08		<0.08			
3/28/2018					<0.08				
3/29/2018			0.035 (J)						
7/10/2018	0.042 (J)	<0.08	0.044 (J)	<0.08	<0.08	<0.08			
10/8/2018	0.044 (J)	<0.08				<0.08	1.3	0.76	
10/9/2018			0.043 (J)	<0.08	<0.08				
1/30/2019	0.03 (J)	<0.08		<0.08	<0.08	<0.08	1.5	0.77	
1/31/2019			0.04 (J)						
3/27/2019	0.036 (J)					<0.08			
3/28/2019		<0.08	0.062	0.024 (J)	<0.08		1.4	0.83	
9/11/2019						<0.08			
9/12/2019	0.048 (J)	<0.08	0.045 (J)	<0.08	<0.08		1.6	0.65	
3/10/2020	0.066 (J)	<0.08		0.059 (J)		<0.08		0.64	
3/11/2020							1.9		
3/31/2020			0.046 (J)		<0.08				
4/2/2020				0.084					
9/21/2020		0.073 (J)		0.11		0.11	0.61		
9/22/2020	0.097		0.083		0.053 (J)			0.73	
3/23/2021			0.07 (J)	0.088		<0.08	1.5	0.57	0.043 (J)
3/24/2021	0.048 (J)	<0.08			<0.08				
8/17/2021	0.067 (J)	0.045 (J)		0.098		0.049 (J)	1.4	0.68	
8/18/2021			0.095		0.043 (J)				0.077 (J)
2/7/2022							0.6	0.54	
2/8/2022	<0.08	<0.08	0.094	0.077 (J)		<0.08			
2/9/2022					<0.08				<0.08
8/30/2022	<0.08	<0.08	0.085	0.1	<0.08	<0.08	1.2	0.98	
8/31/2022									<0.08
1/31/2023							1.3	0.99	0.047 (J)
2/1/2023		0.023 (J)	0.091	0.087	<0.08				
2/2/2023	0.039 (J)								
3/28/2023									
3/29/2023									0.046 (J)
5/30/2023									
5/31/2023									0.036 (J)
7/26/2023									0.039 (J)
8/28/2023		<0.08					1.2		
8/29/2023			0.1	0.078 (J)	<0.08			0.53	0.033 (J)
9/6/2023	0.032 (J)								

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-5 (bg)	GWA-4 (bg)	GWC-2	GWA-3A (bg)	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
1/23/2024	0.051 (J)	0.033 (J)	0.092	0.073 (J)	<0.08		1.2	0.5	0.047 (J)
8/19/2024							1.2	0.37	
8/20/2024	0.053 (J)	0.023 (J)	0.11	0.072 (J)	<0.08				0.034 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-5A	GWC-1A
8/31/2016			
9/1/2016			
1/19/2017			
1/24/2017			
1/25/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	0.1		
3/24/2021		<0.08	0.36
8/17/2021	0.11		
8/18/2021		<0.08	0.25
2/7/2022			
2/8/2022	0.084	<0.08	
2/9/2022			0.13
8/30/2022	0.12		0.099
8/31/2022		<0.08	
1/31/2023	0.044 (J)	0.033 (J)	0.094
2/1/2023			
2/2/2023			
3/28/2023	0.072 (J)		
3/29/2023		0.024 (J)	0.063 (J)
5/30/2023	0.068 (J)		
5/31/2023		<0.08	0.054 (J)
7/26/2023	0.032 (J)	<0.08	0.054 (J)
8/28/2023	0.035 (J)		
8/29/2023		<0.08	0.042 (J)
9/6/2023			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-5A	GWC-1A
1/23/2024	0.029 (J)	<0.08	0.06 (J)
8/19/2024			
8/20/2024	0.055 (J)	<0.08	0.24

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-5 (bg)	GWA-4 (bg)	GWC-2	GWA-3A (bg)	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
1/23/2024	3.2	1.2	1.4	4.6	0.3 (J)		12	12	3
8/19/2024							13	11	
8/20/2024	2.8	1.4	10	5	0.36 (J)				3.2

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-1A	GWC-5A
8/31/2016			
9/1/2016			
1/19/2017			
1/24/2017			
1/25/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	4		
3/24/2021		3.3	6.1
8/17/2021	3.9		
8/18/2021		2.9	2.7
2/7/2022			
2/8/2022	2.7		2.1
2/9/2022		2.5	
8/30/2022	5.2	2.3	
8/31/2022			0.98
1/31/2023	6.8	2.6	1
2/1/2023			
2/2/2023			
3/28/2023	3		
3/29/2023		2.6	0.83
5/30/2023	3.3		
5/31/2023		2.8	1.1
7/26/2023	7.5	2.7	1.2
8/28/2023	8.6		
8/29/2023		2.5	1.1
9/6/2023			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-1A	GWC-5A
1/23/2024	8.3	2.3	0.96
8/19/2024			
8/20/2024	2.7	2.6	1.6

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-5 (bg)	GWA-4 (bg)	GWC-2	GWA-3A (bg)	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
1/23/2024	16	5.1	5	33	4.3		7.2	9.6	10
8/19/2024							8.1	11	
8/20/2024	6.9	7.9	5	33	4.9				11

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-5A	GWC-1A
8/31/2016			
9/1/2016			
1/19/2017			
1/24/2017			
1/25/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	9.9		
3/24/2021		15	15
8/17/2021	10		
8/18/2021		7.8	16
2/7/2022			
2/8/2022	9.5	5.9	
2/9/2022			15
8/30/2022	7.7		14
8/31/2022		4.5	
1/31/2023	8	4.5	14
2/1/2023			
2/2/2023			
3/28/2023	10		
3/29/2023		5	14
5/30/2023	9.1		
5/31/2023		4.8	13
7/26/2023	7.3	5.4	14
8/28/2023	6.8		
8/29/2023		5.2	13
9/6/2023			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-5A	GWC-1A
1/23/2024	6.3	6.4	14
8/19/2024			
8/20/2024	9.2	10	15

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-5 (bg)	GWA-4 (bg)	GWC-2	GWA-3A (bg)	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
8/31/2016	0.13 (J)	<0.1	<0.1	<0.1	<0.1				
9/1/2016						<0.1			
1/19/2017	<0.1	0.089 (J)		<0.1					
1/24/2017			<0.1						
1/25/2017					<0.1				
2/28/2017						0.098 (J)			
7/17/2017						<0.1			
7/18/2017		<0.1		<0.1					
7/19/2017	<0.1		<0.1						
7/20/2017					<0.1				
9/20/2017				<0.1		<0.1			
9/21/2017	0.13 (J)	<0.1	<0.1		<0.1				
1/8/2018						<0.1			
1/9/2018	0.13 (J)	<0.1	<0.1	<0.1	<0.1				
3/27/2018	0.21	<0.1		<0.1		<0.1			
3/28/2018					<0.1				
3/29/2018			<0.1						
7/10/2018	0.17 (J)	<0.1	<0.1	<0.1	<0.1	<0.1			
10/8/2018	0.11 (J)	<0.1				<0.1	<0.1	<0.1	
10/9/2018			<0.1	<0.1	<0.1				
1/30/2019	0.089 (J)	0.029 (J)		<0.1	<0.1	<0.1	<0.1	<0.1	
1/31/2019			<0.1						
3/27/2019	0.1 (J)					<0.1			
3/28/2019		<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	
9/11/2019						<0.1			
9/12/2019	0.052 (J)	0.035 (J)	<0.1	<0.1	<0.1		<0.1	0.036 (J)	
3/10/2020	0.051 (J)	0.066 (J)		0.026 (J)		<0.1		<0.1	
3/11/2020							<0.1		
3/31/2020			0.043 (J)		0.028 (J)				
4/2/2020				0.051 (J)					
9/21/2020		0.06 (J)		<0.1		<0.1	<0.1		
9/22/2020	0.049 (J)		<0.1		<0.1			0.039 (J)	
3/23/2021			<0.1	<0.1		<0.1	<0.1	<0.1	<0.1
3/24/2021	0.08 (J)	0.12			<0.1				
8/17/2021	0.097 (J)	0.061 (J)		0.064 (J)		0.038 (J)	0.033 (J)	0.083 (J)	
8/18/2021			<0.1		<0.1				0.039 (J)
2/7/2022							<0.1	0.027 (J)	
2/8/2022	0.12	0.061 (J)	<0.1	0.033 (J)		<0.1			
2/9/2022					0.038 (J)				0.042 (J)
8/30/2022	0.11	0.047 (J)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
8/31/2022									<0.1
1/31/2023							<0.1	<0.1	<0.1
2/1/2023		0.043 (J)	<0.1	<0.1	<0.1				
2/2/2023	0.12								
3/28/2023									
3/29/2023									<0.1
5/30/2023									
5/31/2023									0.05 (J)
7/26/2023									<0.1
8/28/2023		0.051 (J)					<0.1		
8/29/2023			<0.1	<0.1	<0.1			<0.1	<0.1
9/6/2023	0.15								

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-5 (bg)	GWA-4 (bg)	GWC-2	GWA-3A (bg)	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
1/23/2024	0.15	0.077 (J)	0.043 (J)	0.049 (J)	<0.1		<0.1	<0.1	<0.1
8/19/2024							<0.1	<0.1	
8/20/2024	0.13	<0.1	<0.1	<0.1	<0.1				<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-5A	GWC-1A
8/31/2016			
9/1/2016			
1/19/2017			
1/24/2017			
1/25/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	0.079 (J)		
3/24/2021		<0.1	0.046 (J)
8/17/2021	0.09 (J)		
8/18/2021		<0.1	0.072 (J)
2/7/2022			
2/8/2022	0.077 (J)	0.033 (J)	
2/9/2022			0.069 (J)
8/30/2022	0.51		0.071 (J)
8/31/2022		<0.1	
1/31/2023	0.13	<0.1	0.074 (J)
2/1/2023			
2/2/2023			
3/28/2023	0.04 (J)		
3/29/2023		<0.1	0.066 (J)
5/30/2023	0.067 (J)		
5/31/2023		0.056 (J)	0.11
7/26/2023	0.19	<0.1	0.085 (J)
8/28/2023	0.21		
8/29/2023		<0.1	0.08 (J)
9/6/2023			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-5A	GWC-1A
1/23/2024	0.24	<0.1	0.1
8/19/2024			
8/20/2024	<0.1	<0.1	<0.1

Prediction Limit

Constituent: pH (S.U.) Analysis Run 9/30/2024 7:17 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-3A (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-4 (bg)	GWA-2B (bg)	GWA-7A (bg)	GWC-6A
10/5/1999	6.63	6.42	6.3	5.33	6.08	6.51			
11/12/1999	5.51	5.03	4.72	4.6	5.35	5.46			
12/29/1999	5.23	4.92	4.8	4.8	5.19	5.13			
2/17/2000	5.29	5.13	4.78	4.98	5.18	5.22			
9/13/2000	5.41	4.85	4.58	4.75	5.13	4.86			
11/10/2000	5.47	5.05	4.5	4.65	5.2	5.29			
1/4/2001	5.44	5.08	4.61	4.83	5.14	5.53			
12/11/2001	4.86	4.81	4.87	4.73	4.93	5.37			
4/4/2002	5.1	4.92	4.96	5.05	5	5.32			
12/6/2002	4.917 (D)	5.07 (D)	4.4 (D)	4.65 (D)	5.02	5.3 (D)			
6/28/2003	4.91	4.69	3.77	4	4.92	4.73			
12/13/2003	4.87	4.81	4.25	4.97	4.82	4.53			
5/28/2004	4.98	3.93	3.9	4.51	4.6	4.22			
12/10/2004	4.35	4.25	3.71	4.09	4.29	4.26			
2/5/2005					4.43				
6/24/2005	4.82	4.5	3.94	4.27	4.56	4.47			
12/13/2005	4.66	4.52	3.94	4.54	4.34	4.47			
7/12/2006	5.49	3.59	5.56	4.57	4.38	3.68			
7/11/2014	5.55			4.64					
7/12/2014		5.44	3.88		5.68	5.33			
7/15/2015	5.13	4.98	4.19	4.67	5.22	4.94			
1/16/2016	5.06	4.87	4.35			4.85			
1/17/2016					6.07				
8/31/2016		4.92	4.53	4.89	5.49	4.79			
1/19/2017		4.86	4.79			4.72			
1/24/2017					5.25				
1/25/2017				4.73					
2/28/2017	5.33								
7/17/2017	5.09								
7/18/2017		5.02				4.96			
7/19/2017			4.83		5.54				
7/20/2017				4.96					
9/20/2017	5.29	4.72							
9/21/2017			4.57	4.78	5.19	4.7			
1/8/2018	5.26	4.92							
1/9/2018		4.83	4.4	4.79	4.97	4.91			
3/27/2018	5.27	4.91	4.11			4.92			
3/28/2018				4.44					
3/29/2018					5.15				
7/10/2018	5.17	4.87	4.62	4.88	5.37	4.94			
10/8/2018	5.18	4.84	4.51			4.76	5.29	5.79	
10/9/2018				4.85	5.04				
1/29/2019				4.7					
1/30/2019	5.17	4.88	4.72	4.52		4.94	5.08	5.15	
1/31/2019					5.38				
3/27/2019	5.09		4.56						
3/28/2019		4.8		4.68	5.38	4.99	4.93	5.62	
9/11/2019	5.1								
9/12/2019		4.99	4.54	4.89	5.14	4.92	5.57	5.1	
3/10/2020	5.48	4.79	4.81			4.59	5.56		
3/11/2020								5.05	
3/31/2020				4.66	5.64				

Prediction Limit

Constituent: pH (S.U.) Analysis Run 9/30/2024 7:17 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-3A (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-4 (bg)	GWA-2B (bg)	GWA-7A (bg)	GWC-6A
4/2/2020		4.75							
9/21/2020	4.95	4.69				4.6		5.35	
9/22/2020			4.99	4.92	5.04		5.83		
3/23/2021	5.17	4.6			5.61		5.61	5.01	5.31
3/24/2021			4.37	4.59		4.42			
8/17/2021	5.24	4.76	4.62			4.78	5.82	5.51	
8/18/2021				4.76	4.98				5.26
2/7/2022							5.7	5.29	
2/8/2022	5.17	4.69	4.67		4.79	4.93			
2/9/2022				4.82					5.31
8/30/2022	5.01	4.71	4.51	4.71	4.96	4.72	4.9	5	
8/31/2022									5.07
1/31/2023							5.07	5	5.32
2/1/2023		4.52		4.6	4.83	4.77			
2/2/2023			4.59						
3/28/2023									
3/29/2023									5.18
5/30/2023									
5/31/2023									5.07
7/26/2023									4.93
8/28/2023						4.34		4.91	
8/29/2023		4.46		4.39	4.63		5.78		4.96
9/6/2023			4.32						
1/23/2024		4.65	4.66	4.64	4.96	4.98	5.14	5.01	5.32
8/19/2024							5.7	5.16	
8/20/2024		4.96	4.62	4.68	5.6	4.81			5.3

Prediction Limit

Constituent: pH (S.U.) Analysis Run 9/30/2024 7:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

GWA-1B (bg)	GWC-1A	GWC-5A
10/5/1999		
11/12/1999		
12/29/1999		
2/17/2000		
9/13/2000		
11/10/2000		
1/4/2001		
12/11/2001		
4/4/2002		
12/6/2002		
6/28/2003		
12/13/2003		
5/28/2004		
12/10/2004		
2/5/2005		
6/24/2005		
12/13/2005		
7/12/2006		
7/11/2014		
7/12/2014		
7/15/2015		
1/16/2016		
1/17/2016		
8/31/2016		
1/19/2017		
1/24/2017		
1/25/2017		
2/28/2017		
7/17/2017		
7/18/2017		
7/19/2017		
7/20/2017		
9/20/2017		
9/21/2017		
1/8/2018		
1/9/2018		
3/27/2018		
3/28/2018		
3/29/2018		
7/10/2018		
10/8/2018		
10/9/2018		
1/29/2019		
1/30/2019		
1/31/2019		
3/27/2019		
3/28/2019		
9/11/2019		
9/12/2019		
3/10/2020		
3/11/2020		
3/31/2020		

Prediction Limit

Constituent: pH (S.U.) Analysis Run 9/30/2024 7:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-1A	GWC-5A
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	5.63		
3/24/2021		4.38	5.42
8/17/2021	5.83		
8/18/2021		4.59	5.17
2/7/2022			
2/8/2022	5.43		5.2
2/9/2022		4.53	
8/30/2022	5.86	4.43	
8/31/2022			4.97
1/31/2023	6.15	4.43	4.85
2/1/2023			
2/2/2023			
3/28/2023	5.73		
3/29/2023		4.38	4.69
5/30/2023	5.89		
5/31/2023		4.31	4.62
7/26/2023	5.86	4.26	4.57
8/28/2023	5.72		
8/29/2023		4.25	4.6
9/6/2023			
1/23/2024	6.52	4.55	4.8
8/19/2024			
8/20/2024	5.71	4.52	4.78

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-5 (bg)	GWA-4 (bg)	GWC-2	GWA-3A (bg)	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
8/31/2016	21	7	<5	<5	1.7				
9/1/2016						<5			
1/19/2017	11	6.3		<5					
1/24/2017			<5						
1/25/2017					1.8				
2/28/2017						2.7			
7/17/2017						<5			
7/18/2017		4.7		<5					
7/19/2017	12		<5						
7/20/2017					0.83 (J)				
9/20/2017				<5		<5			
9/21/2017	15	4.5	<5		1.1				
1/8/2018						<5			
1/9/2018	25	3	<5	<5	0.79 (J)				
3/27/2018	31	3.8		<5		<5			
3/28/2018					0.79 (J)				
3/29/2018			<5						
7/10/2018	19	3.4	<5	<5	0.76 (J)	<5			
10/8/2018	17	3.4				<5	75	73	
10/9/2018			<5	<5	<5				
1/30/2019	15	3.5		0.41 (J)	0.9 (J)	1.2	85	74	
1/31/2019			0.57 (J)						
3/27/2019	20					<5			
3/28/2019		3	<5	0.44 (J)	1.1		85	71	
9/11/2019						<5			
9/12/2019	10	3.7	0.43 (J)	0.69 (J)	1.1		81	59	
3/10/2020	15	7.2		3		1.5		57	
3/11/2020							110		
3/31/2020			1		2.5				
4/2/2020				<5					
9/21/2020		5		<5		<5	49		
9/22/2020	12		<5		0.76 (J)			52	
3/23/2021			0.8 (J)	<5		<5	88	49	10
3/24/2021	16	7			<5				
8/17/2021	11	5		<5		<5	84	54	
8/18/2021			1.2		<5				8.3
2/7/2022							54	42	
2/8/2022	13	5.9	2.7	<5		<5			
2/9/2022					<5				5.4
8/30/2022	13	3.5	1.1	<5	<5	<5	73	74	
8/31/2022									3.5
1/31/2023							74	71	3.3
2/1/2023		3.1	1.3	<5	<5				
2/2/2023	15								
3/28/2023									
3/29/2023									4
5/30/2023									
5/31/2023									3.3
7/26/2023									3.2
8/28/2023		3.2					67		
8/29/2023			5.2	<5	0.57 (J)			42	2.7
9/6/2023	14								

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-5 (bg)	GWA-4 (bg)	GWC-2	GWA-3A (bg)	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
1/23/2024	14	3.3	3.8	<5	0.41 (J)		66	54	3.3
8/19/2024							77	32	
8/20/2024	19	4	5.1	<5	0.95 (J)				3.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-5A	GWC-1A
8/31/2016			
9/1/2016			
1/19/2017			
1/24/2017			
1/25/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	6.8		
3/24/2021		26	1
8/17/2021	5.2		
8/18/2021		10	0.84 (J)
2/7/2022			
2/8/2022	2.8	5.9	
2/9/2022			<5
8/30/2022	1.6		<5
8/31/2022		<5	
1/31/2023	1	<5	<5
2/1/2023			
2/2/2023			
3/28/2023	2		
3/29/2023		<5	<5
5/30/2023	2		
5/31/2023		0.71 (J)	0.43 (J)
7/26/2023	1.5	0.43 (J)	<5
8/28/2023	1.4		
8/29/2023		0.48 (J)	0.4 (J)
9/6/2023			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-5A	GWC-1A
1/23/2024	1.4	<5	<5
8/19/2024			
8/20/2024	0.78 (J)	0.52 (J)	0.48 (J)

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-5 (bg)	GWA-4 (bg)	GWC-2	GWA-3A (bg)	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
8/31/2016	66 (D)	14 (D)	42 (D)	42 (D)	36 (D)				
9/1/2016						2200 (o)			
1/19/2017	48 (D)	34 (D)		52 (D)					
1/24/2017			28 (D)						
1/25/2017					58 (D)				
2/28/2017						74 (D)			
7/17/2017						50			
7/18/2017		26		32					
7/19/2017	48		42						
7/20/2017					16				
9/20/2017				16		26			
9/21/2017	76	24	46		24				
1/8/2018						16			
1/9/2018	18	16	10	4 (J)	8				
3/27/2018	48	<10		30		40			
3/28/2018					26				
3/29/2018			52						
7/10/2018	76	14	38	30	26	90			
10/8/2018	8	36				70	180	170	
10/9/2018			52	56	16				
1/30/2019	67	40		41	37	82	180	140	
1/31/2019			45						
3/27/2019	70					66			
3/28/2019		24	45	36	28		170	150	
9/11/2019						53			
9/12/2019	20	10	28	<10	<10		140	89	
3/10/2020	67	39		49		67		130	
3/11/2020							180		
3/31/2020			50		52				
4/2/2020				61					
9/21/2020		31		61		31	130		
9/22/2020	53		30		36			110	
3/23/2021			56	76		47	180	130	71
3/24/2021	60	36			27				
8/17/2021	50	33		83		36	160	130	
8/18/2021			37		29				61
2/7/2022							150	120	
2/8/2022	57	29	30	62		45			
2/9/2022					22				100
8/30/2022	64	40	38	87	21	55	160	150	
8/31/2022									73
1/31/2023							150	140	71
2/1/2023		34	36	85	18				
2/2/2023	65								
3/28/2023									
3/29/2023									69
5/30/2023									
5/31/2023									68
7/26/2023									70
8/28/2023		48					140		
8/29/2023			45	85	21			110	76
9/6/2023	66								

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-5 (bg)	GWA-4 (bg)	GWC-2	GWA-3A (bg)	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
1/23/2024	68	32	40	99	25		140	120	75
8/19/2024							130	98	
8/20/2024	53	40	60	94	23				71

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-5A	GWC-1A
8/31/2016			
9/1/2016			
1/19/2017			
1/24/2017			
1/25/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	63		
3/24/2021		97	59
8/17/2021	43		
8/18/2021		41	66
2/7/2022			
2/8/2022	39	48	
2/9/2022			62
8/30/2022	79		65
8/31/2022		27	
1/31/2023	76	25	57
2/1/2023			
2/2/2023			
3/28/2023	48		
3/29/2023		26	63
5/30/2023	51		
5/31/2023		25	61
7/26/2023	84	29	57
8/28/2023	85		
8/29/2023		36	53
9/6/2023			

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 9/30/2024 7:17 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-5A	GWC-1A
1/23/2024	100	35	63
8/19/2024			
8/20/2024	50	39	56

FIGURE F.

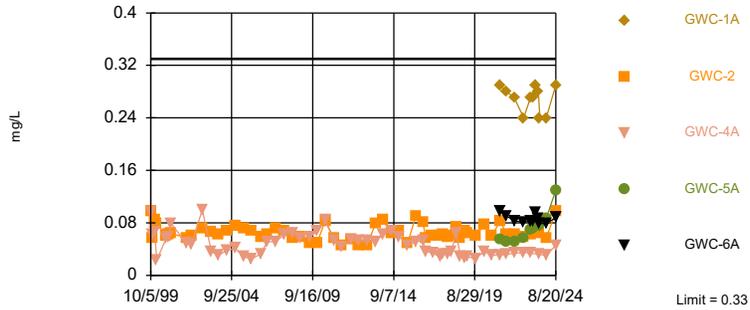
Appendix I - Interwell Prediction Limits - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 9/30/2024, 12:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-1A	0.33	n/a	8/20/2024	0.29	No	266	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-2	0.33	n/a	8/20/2024	0.097	No	266	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-4A	0.33	n/a	8/20/2024	0.046	No	266	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-5A	0.33	n/a	8/20/2024	0.13	No	266	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-6A	0.33	n/a	8/20/2024	0.088	No	266	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Beryllium (mg/L)	GWC-1A	0.0036	n/a	8/20/2024	0.0005J	No	267	n/a	n/a	65.92	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-2	0.0036	n/a	8/20/2024	0.00026J	No	267	n/a	n/a	65.92	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-4A	0.0036	n/a	8/20/2024	0.0025ND	No	267	n/a	n/a	65.92	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-5A	0.0036	n/a	8/20/2024	0.00051J	No	267	n/a	n/a	65.92	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-6A	0.0036	n/a	8/20/2024	0.00033J	No	267	n/a	n/a	65.92	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1A	0.032	n/a	8/20/2024	0.002ND	No	265	n/a	n/a	52.08	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.032	n/a	8/20/2024	0.0027	No	265	n/a	n/a	52.08	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-4A	0.032	n/a	8/20/2024	0.002ND	No	265	n/a	n/a	52.08	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-5A	0.032	n/a	8/20/2024	0.002ND	No	265	n/a	n/a	52.08	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-6A	0.032	n/a	8/20/2024	0.0013J	No	265	n/a	n/a	52.08	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-1A	0.0072	n/a	8/20/2024	0.0048	No	265	n/a	n/a	47.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-2	0.0072	n/a	8/20/2024	0.0015J	No	265	n/a	n/a	47.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-4A	0.0072	n/a	8/20/2024	0.00048J	No	265	n/a	n/a	47.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-5A	0.0072	n/a	8/20/2024	0.0037	No	265	n/a	n/a	47.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-6A	0.0072	n/a	8/20/2024	0.001J	No	265	n/a	n/a	47.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Copper (mg/L)	GWC-1A	0.008	n/a	8/20/2024	0.002ND	No	246	n/a	n/a	79.27	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-2	0.008	n/a	8/20/2024	0.002ND	No	246	n/a	n/a	79.27	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1A	0.016	n/a	8/20/2024	0.001ND	No	266	n/a	n/a	80.45	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.016	n/a	8/20/2024	0.001ND	No	266	n/a	n/a	80.45	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-5A	0.016	n/a	8/20/2024	0.00024J	No	266	n/a	n/a	80.45	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-6A	0.016	n/a	8/20/2024	0.001ND	No	266	n/a	n/a	80.45	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1A	0.03	n/a	8/20/2024	0.002ND	No	247	n/a	n/a	76.11	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.03	n/a	8/20/2024	0.002ND	No	247	n/a	n/a	76.11	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-4A	0.03	n/a	8/20/2024	0.002ND	No	247	n/a	n/a	76.11	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWC-1A	0.074	n/a	8/20/2024	0.02	No	249	n/a	n/a	23.69	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.074	n/a	8/20/2024	0.0067	No	249	n/a	n/a	23.69	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-4A	0.074	n/a	8/20/2024	0.005ND	No	249	n/a	n/a	23.69	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-5A	0.074	n/a	8/20/2024	0.015	No	249	n/a	n/a	23.69	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-6A	0.074	n/a	8/20/2024	0.0052	No	249	n/a	n/a	23.69	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

Within Limit

Prediction Limit Interwell Non-parametric

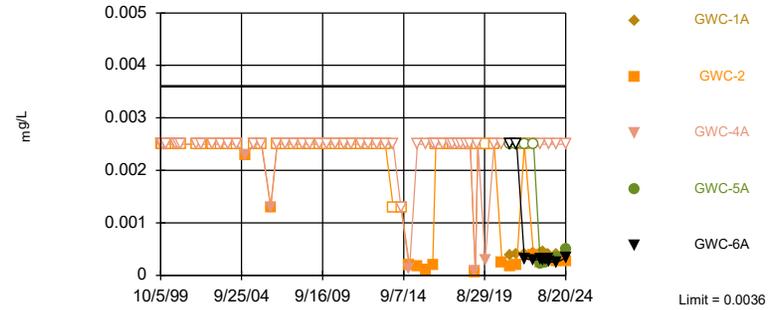


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 266 background values. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Barium Analysis Run 9/30/2024 12:44 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit Interwell Non-parametric

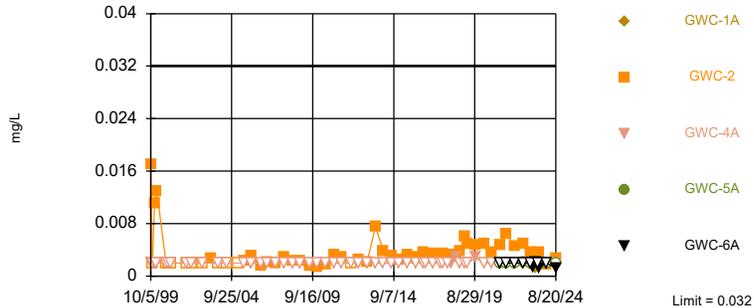


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 267 background values. 65.92% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Beryllium Analysis Run 9/30/2024 12:44 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit Interwell Non-parametric

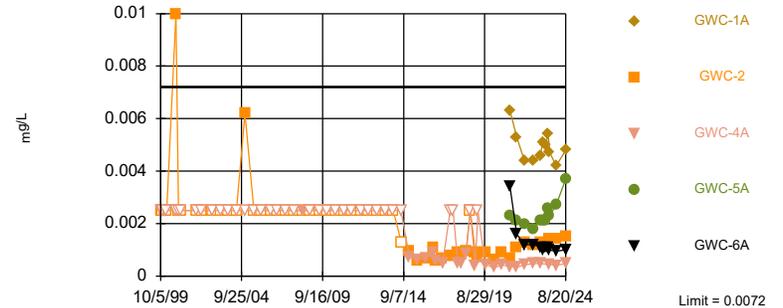


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 265 background values. 52.08% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Chromium Analysis Run 9/30/2024 12:44 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit Interwell Non-parametric

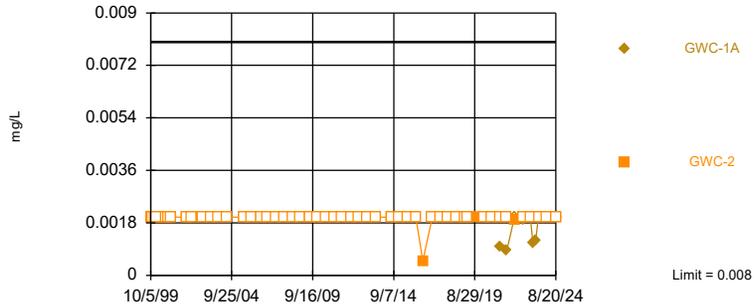


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 265 background values. 47.17% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Cobalt Analysis Run 9/30/2024 12:44 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

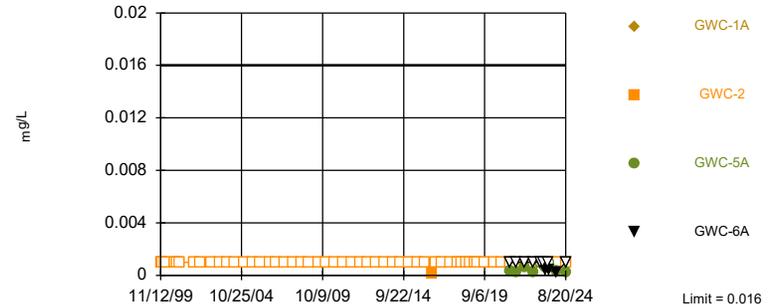


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 246 background values. 79.27% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Copper Analysis Run 9/30/2024 12:44 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

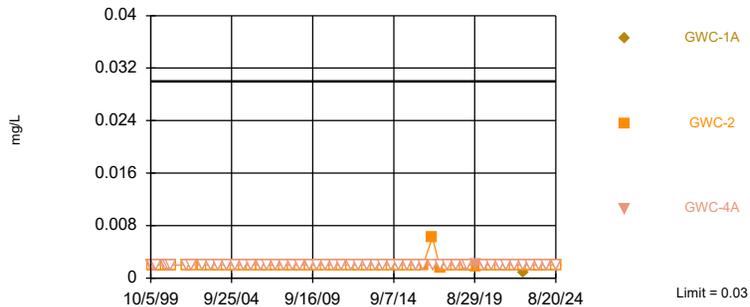


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 266 background values. 80.45% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 4 points to limit. Assumes 1 future value.

Constituent: Lead Analysis Run 9/30/2024 12:44 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric

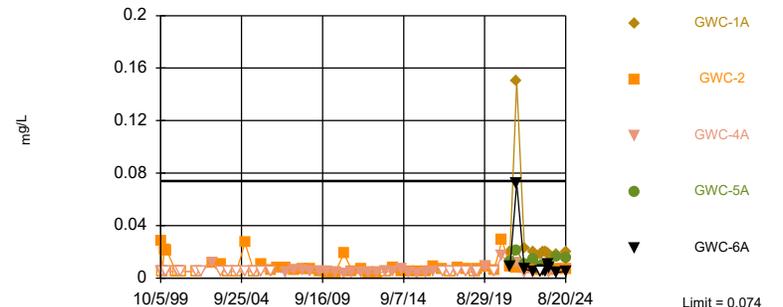


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 247 background values. 76.11% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 3 points to limit. Assumes 2 future values.

Constituent: Vanadium Analysis Run 9/30/2024 12:45 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Within Limit

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 249 background values. 23.69% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Zinc Analysis Run 9/30/2024 12:45 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-3A (bg)	GWA-2B (bg)	GWA-7A (bg)	GWC-6A
10/5/1999	0.084	0.013	0.1	0.095	0.097	0.031			
11/12/1999	0.099	0.017	0.086	0.063	0.057	0.023			
12/29/1999	0.18	0.027	0.12	0.066	0.084	0.033			
2/17/2000	0.12	0.023	0.13	0.023	0.079	0.026			
9/13/2000	0.038	0.022	0.18	0.056	0.06	0.044			
11/10/2000	0.065	0.035	0.018	0.059	0.062	0.044			
1/4/2001	0.037	0.032	0.23	0.079	0.064	0.043			
12/11/2001	0.027	0.032	0.12	0.049	0.057	0.041			
4/4/2002	0.027	0.03	0.094	0.048	0.06	0.038			
12/6/2002	0.028	0.041	0.33	0.1	0.072	0.044			
6/28/2003	0.054	0.035	0.11	0.036	0.066	0.045			
12/13/2003	0.027	0.029	0.057	0.031	0.063	0.039			
5/28/2004	0.18	0.033	0.035	0.038	0.067	0.042			
12/10/2004	0.1	0.037	0.04	0.041	0.075	0.045			
6/24/2005	0.045	0.034	0.037	0.028	0.071	0.042			
12/13/2005	0.048	0.03	0.039	0.025	0.068	0.043			
7/12/2006	0.13	0.03	0.042	0.033	0.058	0.043			
12/1/2006	0.012	0.032	0.044	0.051	0.063	0.041			
6/21/2007	0.2	0.03	0.058	0.052	0.071	0.043			
12/15/2007	0.14	0.034	0.073	0.062	0.068	0.045			
6/21/2008		0.037		0.065					
6/22/2008	0.1		0.096		0.057	0.05			
12/6/2008		0.034	0.094	0.056	0.058	0.14			
12/7/2008	0.043								
7/10/2009						0.046			
7/11/2009	0.13	0.037	0.12	0.059	0.05				
12/22/2009			0.089						
12/23/2009	0.17	0.058		0.067	0.05	0.049			
6/23/2010		0.046	0.081	0.084	0.083	0.043			
6/24/2010	0.045								
1/8/2011		0.036	0.097	0.053	0.057	0.047			
1/9/2011	0.11								
7/10/2011		0.031	0.084	0.043	0.046	0.035			
7/11/2011	0.022								
1/19/2012		0.045				0.05			
1/20/2012	0.043		0.099	0.054	0.055				
7/12/2012		0.039	0.12	0.053	0.045	0.042			
7/13/2012	0.05								
1/21/2013	0.11	0.042	0.095	0.053	0.045	0.048			
7/20/2013	0.04	0.054	0.086	0.052	0.079	0.047			
1/17/2014	0.082	0.057	0.14	0.063	0.084	0.049			
7/11/2014				0.068					
7/12/2014	0.034	0.042	0.17		0.065	0.043			
1/15/2015		0.041			0.067	0.05			
1/16/2015	0.029		0.12	0.059					
7/15/2015	0.025	0.04	0.12	0.045	0.049	0.044			
1/16/2016	0.026	0.04	0.12			0.048			
1/17/2016				0.052	0.09				
6/22/2016	0.0374 (D)	0.0453	0.0839	0.0528	0.0806	0.0471 (D)			
8/31/2016		0.041	0.093	0.037	0.057	0.043			
9/1/2016	0.86 (o)								
1/19/2017		0.052	0.079			0.052			

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-3A (bg)	GWA-2B (bg)	GWA-7A (bg)	GWC-6A
1/24/2017					0.06				
1/25/2017				0.034					
2/28/2017	0.027								
7/17/2017	0.022								
7/18/2017		0.037				0.046			
7/19/2017			0.085		0.06				
7/20/2017				0.028					
9/20/2017	0.023					0.053			
9/21/2017		0.042	0.1	0.032	0.063				
1/8/2018	0.022								
1/9/2018		0.043	0.13	0.033	0.059	0.05			
3/27/2018	0.023	0.039	0.18			0.054			
3/28/2018				0.037					
3/29/2018					0.06				
7/10/2018	0.024	0.043	0.14 (o)	0.065	0.073	0.056			
10/8/2018	0.03	0.042	0.11				0.049	0.14	
10/9/2018				0.029	0.057	0.061			
1/30/2019	0.024	0.04	0.079	0.027		0.071	0.041	0.1	
1/31/2019					0.067				
3/27/2019	0.021		0.12						
3/28/2019		0.041		0.028	0.064	0.068	0.035	0.1	
9/11/2019	0.022								
9/12/2019		0.044	0.086	0.026	0.06	0.073	0.049	0.077	
3/10/2020	0.018	0.058	0.081			0.082	0.047		
3/11/2020								0.067	
3/31/2020				0.036	0.077				
4/2/2020						0.088			
9/21/2020	0.023	0.052				0.083		0.11	
9/22/2020			0.078	0.031	0.061		0.049		
3/23/2021	0.023				0.083	0.093	0.044	0.048	0.098
3/24/2021		0.052	0.096	0.031					
8/17/2021	0.025	0.056	0.094			0.095	0.047	0.054	
8/18/2021				0.032	0.062				0.09
2/7/2022							0.047	0.096	
2/8/2022	0.024	0.054	0.1		0.062	0.1			
2/9/2022				0.034					0.083
8/30/2022	0.023	0.046	0.13	0.035	0.058	0.11	0.03	0.047	
8/31/2022									0.081
1/31/2023							0.036	0.043	0.083
2/1/2023		0.05		0.034	0.063	0.13			
2/2/2023			0.13						
3/28/2023									
3/29/2023									0.082
5/30/2023									
5/31/2023									0.096
7/26/2023									0.086
8/28/2023		0.047						0.044	
8/29/2023				0.032	0.065	0.12	0.045		0.079
9/6/2023			0.12						
1/23/2024		0.045	0.12	0.03	0.057	0.13	0.037	0.041	0.079
8/19/2024							0.063	0.047	
8/20/2024		0.057	0.11	0.046	0.097	0.14			0.088

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

GWA-1B (bg)	GWC-1A	GWC-5A
10/5/1999		
11/12/1999		
12/29/1999		
2/17/2000		
9/13/2000		
11/10/2000		
1/4/2001		
12/11/2001		
4/4/2002		
12/6/2002		
6/28/2003		
12/13/2003		
5/28/2004		
12/10/2004		
6/24/2005		
12/13/2005		
7/12/2006		
12/1/2006		
6/21/2007		
12/15/2007		
6/21/2008		
6/22/2008		
12/6/2008		
12/7/2008		
7/10/2009		
7/11/2009		
12/22/2009		
12/23/2009		
6/23/2010		
6/24/2010		
1/8/2011		
1/9/2011		
7/10/2011		
7/11/2011		
1/19/2012		
1/20/2012		
7/12/2012		
7/13/2012		
1/21/2013		
7/20/2013		
1/17/2014		
7/11/2014		
7/12/2014		
1/15/2015		
1/16/2015		
7/15/2015		
1/16/2016		
1/17/2016		
6/22/2016		
8/31/2016		
9/1/2016		
1/19/2017		

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-1A	GWC-5A
1/24/2017			
1/25/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	0.021		
3/24/2021		0.29	0.055
8/17/2021	0.022		
8/18/2021		0.28	0.052
2/7/2022			
2/8/2022	0.019		0.052
2/9/2022		0.27	
8/30/2022	0.022	0.24	
8/31/2022			0.057
1/31/2023	0.024	0.27	0.07
2/1/2023			
2/2/2023			
3/28/2023	0.018		
3/29/2023		0.27	0.071
5/30/2023	0.019		
5/31/2023		0.29	0.076
7/26/2023	0.026	0.28	0.082
8/28/2023	0.023		
8/29/2023		0.24	0.076
9/6/2023			
1/23/2024	0.021	0.24	0.087
8/19/2024			
8/20/2024	0.018	0.29	0.13

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-3A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
10/5/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
11/12/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/29/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
2/17/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
9/13/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
11/10/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
1/4/2001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/11/2001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
4/4/2002	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/6/2002	<0.0025	<0.0025	0.0018	<0.0025	<0.0025	<0.0025			
6/28/2003	<0.0025	<0.0025	0.0036	<0.0025	<0.0025	<0.0025			
12/13/2003	<0.0025	<0.0025	0.0019	<0.0025	<0.0025	<0.0025			
5/28/2004	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/10/2004	0.0028	0.0023	0.0035	0.0023	0.0023	0.0024			
6/24/2005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/13/2005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
7/12/2006	0.0013	<0.0025	0.0013	0.0013	0.0013	<0.0025			
12/1/2006	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
6/21/2007	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/15/2007	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
6/21/2008		<0.0025		<0.0025					
6/22/2008	<0.0025		<0.0025		<0.0025	<0.0025			
12/6/2008		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/7/2008	<0.0025								
7/10/2009						<0.0025			
7/11/2009	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025				
12/22/2009			<0.0025						
12/23/2009	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025			
6/23/2010		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
6/24/2010	<0.0025								
1/8/2011		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
1/9/2011	<0.0025								
7/10/2011		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
7/11/2011	<0.0025								
1/19/2012		<0.0025				<0.0025			
1/20/2012	<0.0025		<0.0025	<0.0025	<0.0025				
7/12/2012		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
7/13/2012	<0.0025								
1/21/2013	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
7/20/2013	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
1/17/2014	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)	<0.0025	<0.0013 (J)	<0.0025			
7/11/2014				<0.0013 (J)					
7/12/2014	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)		<0.0013 (J)	<0.0025			
1/15/2015		0.0002 (J)			0.00019 (J)	0.00039 (J)			
1/16/2015	0.00022 (J)		0.00043 (J)	0.00012 (J)					
7/15/2015	0.00015 (J)	0.00018 (J)	0.00064 (J)	<0.0025	0.00018 (J)	0.00031 (J)			
1/16/2016	0.00011 (J)	0.00013 (J)	0.00039 (J)			0.00034 (J)			
1/17/2016				<0.0025	0.00011 (J)				
6/22/2016	0.00025 (JD)	0.0001 (J)	0.0002 (J)	<0.0025	0.0002 (J)	0.0004 (J)			
8/31/2016		<0.0025	<0.0025	<0.0025	<0.0025	0.00035 (J)			
9/1/2016	0.0084 (o)								
1/19/2017		<0.0025	<0.0025			<0.0025			

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-3A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
1/24/2017					<0.0025				
1/25/2017				<0.0025					
2/28/2017	<0.0025								
7/17/2017	<0.0025								
7/18/2017		<0.0025				0.00038 (J)			
7/19/2017			<0.0025		<0.0025				
7/20/2017				<0.0025					
9/20/2017	<0.0025					0.00039 (J)			
9/21/2017		<0.0025	<0.0025	<0.0025	<0.0025				
1/8/2018	<0.0025								
1/9/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
3/27/2018	<0.0025	<0.0025	<0.0025			<0.0025			
3/28/2018				<0.0025					
3/29/2018					<0.0025				
7/10/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00038 (J)			
10/8/2018	<0.0025	<0.0025	<0.0025				<0.0025	0.0014 (J)	
10/9/2018				<0.0025	<0.0025	<0.0025			
1/30/2019	0.00026 (J)	0.00019 (J)	0.00024 (J)	7E-05 (J)		0.00051 (J)	0.00047 (J)	0.0019 (J)	
1/31/2019					6.5E-05 (J)				
3/27/2019	<0.0025		<0.0025						
3/28/2019		<0.0025		<0.0025	<0.0025	0.00046 (J)	0.00034 (J)	0.0017 (J)	
9/11/2019	0.00019 (J)								
9/12/2019		<0.0025	0.00036 (J)	0.00028 (J)	<0.0025	0.00084 (J)	0.00097 (J)	0.00088 (J)	
3/10/2020	0.00018 (J)	0.00029 (J)	0.00028 (J)			0.00058 (J)		0.00087 (J)	
3/11/2020							0.00078 (J)		
3/31/2020				<0.0025	<0.0025				
4/2/2020						0.00062 (J)			
9/21/2020	0.0002 (J)	<0.0025				0.00054 (J)	<0.0025		
9/22/2020			<0.0025	<0.0025	0.00025 (J)			0.00042 (J)	
3/23/2021	0.00021 (J)				0.00018 (J)	0.00063 (J)	0.00066 (J)	0.00071 (J)	<0.0025
3/24/2021		0.00019 (J)	0.00026 (J)	<0.0025					
8/17/2021	<0.0025	<0.0025	0.00018 (J)			0.00049 (J)	0.00047 (J)	0.00068 (J)	
8/18/2021				<0.0025	0.0002 (J)				<0.0025
2/7/2022							<0.0025	0.00071 (J)	
2/8/2022	<0.0025	<0.0025	<0.0025		<0.0025	0.00061 (J)			
2/9/2022				<0.0025					0.00032 (J)
8/30/2022	0.00035 (J)	0.00028 (J)	<0.0025	<0.0025	0.00038 (J)	0.00083 (J)	0.0007 (J)	0.0019 (J)	
8/31/2022									0.00029 (J)
1/31/2023							0.00056 (J)	0.0018 (J)	0.00031 (J)
2/1/2023		0.00024 (J)		<0.0025	0.00024 (J)	0.00078 (J)			
2/2/2023			0.0005 (J)						
3/28/2023									
3/29/2023									0.00029 (J)
5/30/2023									
5/31/2023									0.00032 (J)
7/26/2023									0.00031 (J)
8/28/2023		0.00024 (J)					0.0005 (J)		
8/29/2023				<0.0025	0.00031 (J)	0.00071 (J)		0.00063 (J)	0.00026 (J)
9/6/2023			0.00041 (J)						
1/23/2024		0.00021 (J)	0.00035 (J)	<0.0025	0.00027 (J)	0.00081 (J)	0.00045 (J)	0.0014 (J)	0.00024 (J)
8/19/2024							0.00048 (J)	0.0009 (J)	
8/20/2024		0.00021 (J)	0.00034 (J)	<0.0025	0.00026 (J)	0.00081 (J)			0.00033 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

GWA-1B (bg)	GWC-1A	GWC-5A
10/5/1999		
11/12/1999		
12/29/1999		
2/17/2000		
9/13/2000		
11/10/2000		
1/4/2001		
12/11/2001		
4/4/2002		
12/6/2002		
6/28/2003		
12/13/2003		
5/28/2004		
12/10/2004		
6/24/2005		
12/13/2005		
7/12/2006		
12/1/2006		
6/21/2007		
12/15/2007		
6/21/2008		
6/22/2008		
12/6/2008		
12/7/2008		
7/10/2009		
7/11/2009		
12/22/2009		
12/23/2009		
6/23/2010		
6/24/2010		
1/8/2011		
1/9/2011		
7/10/2011		
7/11/2011		
1/19/2012		
1/20/2012		
7/12/2012		
7/13/2012		
1/21/2013		
7/20/2013		
1/17/2014		
7/11/2014		
7/12/2014		
1/15/2015		
1/16/2015		
7/15/2015		
1/16/2016		
1/17/2016		
6/22/2016		
8/31/2016		
9/1/2016		
1/19/2017		

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-1A	GWC-5A
1/24/2017			
1/25/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	<0.0025		
3/24/2021		0.00039 (J)	<0.0025
8/17/2021	<0.0025		
8/18/2021		0.00041 (J)	<0.0025
2/7/2022			
2/8/2022	<0.0025		<0.0025
2/9/2022		0.0004 (J)	
8/30/2022	<0.0025	0.00042 (J)	
8/31/2022			<0.0025
1/31/2023	<0.0025	0.00043 (J)	0.00023 (J)
2/1/2023			
2/2/2023			
3/28/2023	<0.0025		
3/29/2023		0.00046 (J)	0.00024 (J)
5/30/2023	<0.0025		
5/31/2023		0.00039 (J)	0.00024 (J)
7/26/2023	<0.0025	0.00041 (J)	0.00032 (J)
8/28/2023	<0.0025		
8/29/2023		0.00038 (J)	0.00031 (J)
9/6/2023			
1/23/2024	<0.0025	0.00041 (J)	0.00033 (J)
8/19/2024			
8/20/2024	<0.0025	0.0005 (J)	0.00051 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-3A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	0.023	<0.002	<0.002	0.017	<0.002	<0.002			
11/12/1999	0.03	<0.002	<0.002	<0.002	<0.002	<0.002			
12/29/1999	0.059 (o)	<0.002	<0.002	0.011	<0.002	<0.002			
2/17/2000	0.048 (o)	<0.002	<0.002	0.013	<0.002	<0.002			
9/13/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
11/10/2000	0.018	<0.002	<0.002	<0.002	<0.002	<0.002			
1/4/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
12/11/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
4/4/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
12/6/2002	0.0046	0.0037	0.027	<0.002	<0.002	<0.002			
6/28/2003	0.0082	0.0039	0.0051	0.0027	0.061 (o)	0.0053			
12/13/2003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
5/28/2004	0.016	<0.002	0.0031	<0.002	<0.002	0.0027			
12/10/2004	0.0087	<0.002	0.0067	0.74 (o)	0.0059 (o)	0.004			
2/5/2005				<0.002					
6/24/2005	0.0069	<0.002	<0.002	0.0023	<0.002	0.0031			
12/13/2005	0.0075	<0.002	<0.002	0.0031	<0.002	0.0031			
7/12/2006	0.027	0.023	<0.002	0.0016	<0.002	0.0025			
12/1/2006	<0.002	0.0017	<0.002	0.0022	<0.002	0.0037			
6/21/2007	0.012	0.0027	0.0021	0.002	<0.002	0.0053			
12/15/2007	0.0085	0.0026	0.0022	0.0029	<0.002	0.0044			
6/21/2008		0.0021			<0.002				
6/22/2008	0.021		0.0019	0.0023		0.0059			
12/6/2008		<0.002	<0.002	0.0023	<0.002	0.0031			
12/7/2008	0.01								
7/10/2009						0.0029			
7/11/2009	0.0073	<0.002	<0.002	0.0015	<0.002				
12/22/2009			0.0032						
12/23/2009	0.013	<0.002		0.0014	<0.002	0.0025			
6/23/2010		<0.002	<0.002	0.0018	<0.002	0.0013			
6/24/2010	0.0076								
1/8/2011		<0.002	0.0019	0.0033	<0.002	0.0017			
1/9/2011	0.023								
7/10/2011		<0.002	<0.002	0.0028	<0.002	<0.002			
7/11/2011	0.0042								
1/19/2012		<0.002				<0.002			
1/20/2012	0.009		<0.002	<0.002	<0.002				
7/12/2012		<0.002	0.0044	0.0025	<0.002	<0.002			
7/13/2012	0.013								
1/21/2013	0.032	<0.002	<0.002	0.0022	<0.002	0.0014			
7/20/2013	0.01	<0.002	0.0017	0.0075	<0.002	0.0021			
1/17/2014	0.024	<0.002	<0.0013 (J)	0.0039	<0.002	0.0023			
7/11/2014					<0.002				
7/12/2014	0.0069	<0.002	0.0014	0.0031		<0.0013 (J)			
1/15/2015		<0.002		0.0026		<0.002			
1/16/2015	0.0064		0.0011 (J)		<0.002				
7/15/2015	0.0051	<0.002	0.0016	0.0032	<0.002	<0.002			
1/16/2016	0.0066	<0.002	<0.002			0.0025			
1/17/2016				0.0029	<0.002				
6/22/2016	0.00815 (JD)	0.0005 (J)	0.002 (J)	0.0036 (J)	<0.002	0.00255 (JD)			
8/31/2016		<0.002	0.002 (J)	0.0027	<0.002	0.0042			
9/1/2016	0.12 (o)								

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-3A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
1/19/2017		<0.002	0.002 (J)			0.0039			
1/24/2017				0.0034					
1/25/2017					<0.002 (D)				
2/28/2017	0.0012 (J)								
7/17/2017	0.003								
7/18/2017		<0.002				0.0018 (J)			
7/19/2017			0.0017 (J)	0.0028					
7/20/2017					<0.002				
9/20/2017	0.0025					0.0026			
9/21/2017		<0.002	0.0021 (J)	0.0035	<0.002				
1/8/2018	0.0038								
1/9/2018		0.0087	0.0019 (J)	0.003	<0.002	0.0038			
3/27/2018	0.0044	<0.002	<0.002			0.0037			
3/28/2018					0.0019 (J)				
3/29/2018				0.0032					
7/10/2018	0.0045	<0.002	0.0012 (J)	0.0033	0.0029	0.0022 (J)			
10/8/2018	0.0054	<0.002	0.0015 (J)				<0.002	<0.002	
10/9/2018				0.0039	<0.002	0.0047			
1/30/2019	0.0061	0.00088 (J)	0.0014 (J)		<0.002	0.005	<0.002	0.003	
1/31/2019				0.0061					
3/27/2019	0.0044		<0.002						
3/28/2019		<0.002		0.0049	<0.002	0.0037	<0.002	0.0017 (J)	
9/11/2019	0.0076								
9/12/2019		<0.002	0.0032	0.0048	0.0028	<0.002	<0.002	<0.002	
3/10/2020	0.0041	<0.002	0.0031			<0.002		<0.002	
3/11/2020							<0.002		
3/31/2020				0.005	<0.002				
4/2/2020						0.0031			
9/21/2020	0.0049	<0.002				<0.002	<0.002		
9/22/2020			0.0017 (J)	0.0036	<0.002			<0.002	
3/23/2021	0.0047			0.0048		0.0022	<0.002	<0.002	<0.002
3/24/2021		<0.002	<0.002		<0.002				
8/17/2021	0.0046	<0.002	<0.002			<0.002	<0.002	<0.002	<0.002
8/18/2021				0.0064	<0.002				
2/7/2022							<0.002	<0.002	
2/8/2022	0.0051	<0.002	0.003	0.0046		<0.002			<0.002
2/9/2022					<0.002				
8/30/2022	0.0047	<0.002	<0.002	0.005	<0.002	0.0084	<0.002	0.0028	<0.002
8/31/2022									
1/31/2023							<0.002	0.0022	<0.002
2/1/2023		0.0016 (J)		0.0037	<0.002	0.0016 (J)			
2/2/2023			0.0023						
3/28/2023									<0.002
3/29/2023									
5/30/2023									<0.002
5/31/2023									
7/26/2023									<0.002
8/28/2023		<0.002					0.0016 (J)		<0.002
8/29/2023				0.0037	<0.002	<0.002		<0.002	
9/6/2023			0.0016 (J)						
1/23/2024		<0.002	<0.002	0.0017 (J)	<0.002	0.0016 (J)	<0.002	0.0015 (J)	<0.002
8/19/2024							<0.002	<0.002	

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-3A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
8/20/2024		<0.002	0.0012 (J)	0.0027	<0.002	<0.002			<0.002

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

GWC-6A

GWC-1A

GWC-5A

10/5/1999
11/12/1999
12/29/1999
2/17/2000
9/13/2000
11/10/2000
1/4/2001
12/11/2001
4/4/2002
12/6/2002
6/28/2003
12/13/2003
5/28/2004
12/10/2004
2/5/2005
6/24/2005
12/13/2005
7/12/2006
12/1/2006
6/21/2007
12/15/2007
6/21/2008
6/22/2008
12/6/2008
12/7/2008
7/10/2009
7/11/2009
12/22/2009
12/23/2009
6/23/2010
6/24/2010
1/8/2011
1/9/2011
7/10/2011
7/11/2011
1/19/2012
1/20/2012
7/12/2012
7/13/2012
1/21/2013
7/20/2013
1/17/2014
7/11/2014
7/12/2014
1/15/2015
1/16/2015
7/15/2015
1/16/2016
1/17/2016
6/22/2016
8/31/2016
9/1/2016

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-6A	GWC-1A	GWC-5A
1/19/2017			
1/24/2017			
1/25/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	<0.002		
3/24/2021		<0.002	<0.002
8/17/2021			
8/18/2021	<0.002	<0.002	<0.002
2/7/2022			
2/8/2022			<0.002
2/9/2022	<0.002	<0.002	
8/30/2022		<0.002	
8/31/2022	<0.002		0.0021
1/31/2023	<0.002	<0.002	<0.002
2/1/2023			
2/2/2023			
3/28/2023			
3/29/2023	0.0014 (J)	0.0016 (J)	<0.002
5/30/2023			
5/31/2023	0.0021	0.0012 (J)	<0.002
7/26/2023	<0.002	<0.002	<0.002
8/28/2023			
8/29/2023	0.0013 (J)	<0.002	<0.002
9/6/2023			
1/23/2024	<0.002	<0.002	<0.002
8/19/2024			

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-6A	GWC-1A	GWC-5A
8/20/2024	0.0013 (J)	<0.002	<0.002

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
10/5/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
11/12/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/29/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
2/17/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
9/13/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.01			
11/10/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
1/4/2001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/11/2001	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
4/4/2002	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/6/2002	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
6/28/2003	<0.0025	<0.0025	<0.0025	0.018 (o)	<0.0025	<0.0025			
12/13/2003	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
5/28/2004	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/10/2004	<0.0025	<0.0025	<0.0025	0.007	<0.0025	0.0062			
6/24/2005	<0.0025	<0.0025	<0.0025	0.0072	<0.0025	<0.0025			
12/13/2005	<0.0025	<0.0025	<0.0025	0.0062	<0.0025	<0.0025			
7/12/2006	0.0032	<0.0025	<0.0025	0.0048	<0.0025	<0.0025			
12/1/2006	0.012 (o)	<0.0025	<0.0025	0.0032	<0.0025	<0.0025			
6/21/2007	<0.0025	0.0025	<0.0025	0.0037	<0.0025	<0.0025			
12/15/2007	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
6/21/2008			<0.0025		0.0025				
6/22/2008	0.0031	<0.0025		0.0025		<0.0025			
12/6/2008		<0.0025	<0.0025	0.0025	<0.0025	<0.0025			
12/7/2008	<0.0025								
7/10/2009		<0.0025							
7/11/2009	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025			
12/22/2009				0.0025					
12/23/2009	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025			
6/23/2010		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
6/24/2010	<0.0025								
1/8/2011		<0.0025	<0.0025	0.0026	<0.0025	<0.0025			
1/9/2011	0.0031								
7/10/2011		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
7/11/2011	<0.0025								
1/19/2012		<0.0025	<0.0025						
1/20/2012	<0.0025			<0.0025	<0.0025	<0.0025			
7/12/2012		<0.0025	<0.0025	0.002	<0.0025	<0.0025			
7/13/2012	0.0015								
1/21/2013	0.0035	<0.0025	<0.0025	0.0014	<0.0025	<0.0025			
7/20/2013	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
1/17/2014	0.0027	<0.0013 (J)	<0.0013 (J)	0.0019	<0.0025	<0.0025			
7/11/2014					<0.0025				
7/12/2014	<0.0013 (J)	<0.0013 (J)	<0.0013 (J)	0.0026		<0.0013 (J)			
1/15/2015		0.00086 (J)	0.00084 (J)			0.00096 (J)			
1/16/2015	<0.0025			0.0021	0.00071 (J)				
7/15/2015	<0.0025	0.00087 (J)	0.00083 (J)	0.0023	0.00064 (J)	0.0006 (J)			
1/16/2016	0.00059 (J)	0.0011 (J)	0.00092 (J)	0.002					
1/17/2016					0.00066 (J)	0.00069 (J)			
6/22/2016	0.00085 (JD)	0.0009 (J)	0.0005 (J)	0.0007 (J)	0.0009 (J)	0.0011 (J)			
8/31/2016		0.00095 (J)	0.00055 (J)	0.001 (J)	0.0006 (J)	0.0006 (J)			
9/1/2016	0.023 (o)								
1/19/2017		0.00087 (J)	0.00041 (J)	0.00046 (J)					

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
1/24/2017						0.00067 (J)			
1/25/2017					0.00047 (J)				
2/28/2017	0.00048 (J)								
7/17/2017	<0.0025								
7/18/2017		0.001 (J)	0.0007 (J)						
7/19/2017				0.00069 (J)		0.00079 (J)			
7/20/2017					<0.0025				
9/20/2017	<0.0025	0.0011 (J)							
9/21/2017			0.00073 (J)	0.00073 (J)	<0.0025	0.00077 (J)			
1/8/2018	<0.0025								
1/9/2018		0.0011 (J)	0.0012 (J)	0.0014 (J)	0.00048 (J)	0.00092 (J)			
3/27/2018	<0.0025	0.0011 (J)	0.00081 (J)	0.0019 (J)					
3/28/2018					0.00048 (J)				
3/29/2018						0.0008 (J)			
7/10/2018	<0.0025	0.0012 (J)	0.00086 (J)	0.0015 (J)	0.00084 (J)	0.00097 (J)			
10/8/2018	<0.0025		<0.0025	<0.0025			0.0051	0.0055	
10/9/2018		<0.0025			<0.0025	<0.0025			
1/30/2019	0.00038 (J)	0.0014 (J)	0.00092 (J)	0.00076 (J)	0.00038 (J)		0.0044	0.0047	
1/31/2019						0.00092 (J)			
3/27/2019	<0.0025			0.0012 (J)					
3/28/2019		0.0014 (J)	0.00089 (J)		<0.0025	0.00072 (J)	0.0046	0.0045	
9/11/2019	0.00032 (J)								
9/12/2019		0.0015	0.00091	0.00074	0.00044 (J)	0.0009	0.0023	0.0043	
3/10/2020	0.00028 (J)	0.0019	0.0009	0.00099			0.003		
3/11/2020								0.0056	
3/31/2020					0.00033 (J)	0.00061 (J)			
4/2/2020		0.0017 (J)							
9/21/2020	0.0003 (J)	0.0016 (J)	0.00059 (J)					0.0025	
9/22/2020				0.00064 (J)	0.00042 (J)	0.00092 (J)	<0.0025		
3/23/2021	0.00028 (J)	0.0017 (J)				0.00069 (J)	0.00096 (J)	0.003	0.00019 (J)
3/24/2021			0.00069 (J)	0.00077 (J)	0.00037 (J)				
8/17/2021	0.00032 (J)	0.002 (J)	0.00096 (J)	0.00085 (J)			0.00016 (J)	0.0026	0.00025 (J)
8/18/2021					0.00034 (J)	0.0011 (J)			
2/7/2022							0.00073 (J)	0.0024 (J)	
2/8/2022	0.00029 (J)	0.0019 (J)	0.00096 (J)	0.001 (J)		0.0013 (J)			0.00032 (J)
2/9/2022					0.00042 (J)				
8/30/2022	0.00031 (J)	0.0023 (J)	0.00097 (J)	0.0016 (J)	0.00048 (J)	0.0012 (J)	0.004	0.0024 (J)	0.00029 (J)
8/31/2022									
1/31/2023							0.0041	0.0023 (J)	0.00028 (J)
2/1/2023		0.0027	0.0012 (J)		0.00047 (J)	0.0013 (J)			
2/2/2023				0.0017 (J)					
3/28/2023									0.00032 (J)
3/29/2023									
5/30/2023									0.00028 (J)
5/31/2023									
7/26/2023									<0.0025
8/28/2023			0.001 (J)					0.0019 (J)	<0.0025
8/29/2023		0.0026			0.00045 (J)	0.0014 (J)	0.0029		
9/6/2023				0.0017 (J)					
1/23/2024	0.003		0.001 (J)	0.0018 (J)	0.0004 (J)	0.0014 (J)	0.0033	0.0018 (J)	<0.0025
8/19/2024							0.0032	0.0018 (J)	
8/20/2024		0.0029	0.0012 (J)	0.0012 (J)	0.00048 (J)	0.0015 (J)			0.00028 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

GWC-6A	GWC-5A	GWC-1A
10/5/1999		
11/12/1999		
12/29/1999		
2/17/2000		
9/13/2000		
11/10/2000		
1/4/2001		
12/11/2001		
4/4/2002		
12/6/2002		
6/28/2003		
12/13/2003		
5/28/2004		
12/10/2004		
6/24/2005		
12/13/2005		
7/12/2006		
12/1/2006		
6/21/2007		
12/15/2007		
6/21/2008		
6/22/2008		
12/6/2008		
12/7/2008		
7/10/2009		
7/11/2009		
12/22/2009		
12/23/2009		
6/23/2010		
6/24/2010		
1/8/2011		
1/9/2011		
7/10/2011		
7/11/2011		
1/19/2012		
1/20/2012		
7/12/2012		
7/13/2012		
1/21/2013		
7/20/2013		
1/17/2014		
7/11/2014		
7/12/2014		
1/15/2015		
1/16/2015		
7/15/2015		
1/16/2016		
1/17/2016		
6/22/2016		
8/31/2016		
9/1/2016		
1/19/2017		

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-6A	GWC-5A	GWC-1A
1/24/2017			
1/25/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	0.0034		
3/24/2021		0.0023 (J)	0.0063
8/17/2021			
8/18/2021	0.0016 (J)	0.0021 (J)	0.0053
2/7/2022			
2/8/2022		0.002 (J)	
2/9/2022	0.0012 (J)		0.0044
8/30/2022			0.0044
8/31/2022	0.0012 (J)	0.0018 (J)	
1/31/2023	0.0011 (J)	0.0021 (J)	0.0046
2/1/2023			
2/2/2023			
3/28/2023			
3/29/2023	0.001 (J)	0.0021 (J)	0.0051
5/30/2023			
5/31/2023	0.0011 (J)	0.0021 (J)	0.005
7/26/2023	0.0011 (J)	0.0026	0.0054
8/28/2023			
8/29/2023	0.00099 (J)	0.0023 (J)	0.0047
9/6/2023			
1/23/2024	0.00095 (J)	0.0027	0.0042
8/19/2024			
8/20/2024	0.001 (J)	0.0037	0.0048

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-3A (bg)	GWA-5 (bg)	GWC-2	GWA-4 (bg)	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)	GWC-1A
10/5/1999	<0.002	<0.002	<0.002	<0.002	<0.002				
11/12/1999	<0.002	<0.002	<0.002	<0.002	<0.002				
12/29/1999	<0.002	<0.002	<0.002	<0.002	<0.002				
2/17/2000	<0.002	<0.002	<0.002	<0.002	<0.002				
9/13/2000	<0.002	<0.002	<0.002	<0.002	<0.002				
11/10/2000	<0.002	<0.002	<0.002	<0.002	<0.002				
1/4/2001	<0.002	<0.002	<0.002	<0.002	<0.002				
12/11/2001	<0.002	<0.002	<0.002	<0.002	<0.002				
4/4/2002	<0.002	<0.002	<0.002	<0.002	<0.002				
12/6/2002	<0.002	<0.002	0.0089 (o)	<0.002	<0.002				
6/28/2003	<0.002	<0.002	0.019 (o)	<0.002	<0.002				
12/13/2003	<0.002	<0.002	0.0067 (o)	<0.002	<0.002				
5/28/2004	0.0052	<0.002	0.0057 (o)	<0.002	<0.002				
12/10/2004	<0.002	<0.002	0.0027	0.11 (o)	<0.002				
6/24/2005	<0.002	<0.002	0.0038	<0.002	<0.002				
12/13/2005	<0.002	<0.002	<0.002	<0.002	<0.002				
7/12/2006	0.0055	<0.002	0.0033	<0.002	<0.002				
12/1/2006	<0.002	<0.002	<0.002	<0.002	<0.002				
6/21/2007	0.0032	<0.002	0.0035	<0.002	<0.002				
12/15/2007	<0.002	<0.002	<0.002	<0.002	<0.002				
6/21/2008								<0.002	
6/22/2008	<0.002	<0.002	<0.002	<0.002					
12/6/2008		<0.002	<0.002	<0.002	<0.002			<0.002	
12/7/2008	<0.002								
7/10/2009		<0.002							
7/11/2009	<0.002		<0.002	<0.002	<0.002				
12/22/2009			0.0025						
12/23/2009	0.0025	<0.002		<0.002	<0.002				
6/23/2010		<0.002	<0.002	<0.002	<0.002				
6/24/2010	<0.002								
1/8/2011		<0.002	<0.002	<0.002	<0.002				
1/9/2011	0.004								
7/10/2011		<0.002	<0.002	<0.002	<0.002				
7/11/2011	<0.002								
1/19/2012		<0.002						<0.002	
1/20/2012	<0.002		<0.002	<0.002	<0.002				
7/12/2012		<0.002	<0.002	<0.002	<0.002				
7/13/2012	<0.002								
1/21/2013	<0.002	<0.002	<0.002	<0.002	<0.002				
7/20/2013	<0.002	<0.002	<0.002	<0.002	<0.002				
1/17/2014	<0.005 (J)	<0.002	<0.005 (J)	0.0065 (o)	<0.002				
7/12/2014	<0.005 (J)	<0.002	<0.002	<0.002	<0.002				
1/15/2015		<0.002		<0.002	<0.002				
1/16/2015	<0.002		<0.002						
7/15/2015	<0.002	<0.002	<0.002	<0.002	<0.002				
1/16/2016	<0.002	<0.002	<0.002					<0.002	
1/17/2016				<0.002					
6/22/2016	0.002 (JD)	0.00205 (JD)	0.001	0.0005 (J)	<0.002				
1/19/2017		<0.002	<0.002		<0.002				
1/24/2017				<0.002					
2/28/2017	<0.002								
7/17/2017	<0.002								

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-3A (bg)	GWA-5 (bg)	GWC-2	GWA-4 (bg)	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)	GWC-1A
7/18/2017		<0.002			<0.002				
7/19/2017			<0.002	<0.002					
1/8/2018	<0.002								
1/9/2018		<0.002	<0.002	<0.002	0.0025				
7/10/2018	<0.002	<0.002	<0.002	<0.002	<0.002				
1/30/2019	<0.002	<0.002	<0.002		<0.002	0.0035	0.0018 (J)		
1/31/2019				<0.002					
3/27/2019	<0.002		<0.002						
3/28/2019		<0.002		<0.002	<0.002	0.0031	<0.002		
9/11/2019	<0.002								
9/12/2019		0.0024	0.0011 (J)	0.002	0.0022	0.0038	0.0041		
3/10/2020	<0.002	0.00082 (J)	0.0019 (J)		<0.002	0.0021			
3/11/2020							0.0032		
3/31/2020				<0.002					
4/2/2020		0.0019 (J)							
9/21/2020	<0.002	<0.002			<0.002		0.0018 (J)		
9/22/2020			0.0013 (J)	<0.002		0.00096 (J)			
3/23/2021	<0.002	<0.002		<0.002		0.0011 (J)	0.0027	0.0015 (J)	
3/24/2021			0.00077 (J)		<0.002				0.001 (J)
8/17/2021	<0.002	<0.002	<0.002		<0.002	0.0043	0.0025	<0.002	
8/18/2021				<0.002					0.00085 (J)
2/7/2022						0.0012 (J)	0.008		
2/8/2022	<0.002	0.0011 (J)	<0.002	0.0019 (J)	<0.002			<0.002	
2/9/2022									<0.002
8/30/2022	<0.002	0.0029	0.0011 (J)	<0.002	0.0012 (J)	0.0013 (J)	0.0028	<0.002	0.0019 (J)
1/31/2023						<0.002	<0.002	<0.002	<0.002
2/1/2023		<0.002		<0.002	<0.002				
2/2/2023			0.0018 (J)						
3/28/2023								<0.002	
3/29/2023									0.0011 (J)
5/30/2023								<0.002	
5/31/2023									0.0012 (J)
7/26/2023								<0.002	<0.002
8/28/2023					<0.002		0.0016 (J)	<0.002	
8/29/2023		0.0057		<0.002		<0.002			<0.002
9/6/2023			<0.002						
1/23/2024		0.0012 (J)	<0.002	<0.002	<0.002	<0.002	0.0011 (J)	<0.002	<0.002
8/19/2024						<0.002	0.0015 (J)		
8/20/2024		0.003	<0.002	<0.002	<0.002			<0.002	<0.002

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)	GWC-6A
10/5/1999	0.007	<0.001	<0.001	<0.001	0.0054 (o)				
11/12/1999	0.0063 (o)	<0.001	<0.001	<0.001	<0.001				
12/29/1999	0.016	<0.001	<0.001	<0.001	<0.001				
2/17/2000	<0.001	<0.001	<0.001	<0.001	<0.001				
9/13/2000	<0.001	<0.001	<0.001	<0.001	<0.001				
11/10/2000	<0.001	<0.001	<0.001	<0.001	<0.001				
1/4/2001	<0.001	<0.001	<0.001	<0.001	<0.001				
12/11/2001	<0.001	<0.001	<0.001	<0.001	<0.001				
4/4/2002	<0.001	<0.001	<0.001	<0.001	<0.001				
12/6/2002	<0.001	<0.001	<0.001	0.011	<0.001				
6/28/2003	<0.001	<0.001	<0.001	<0.001	<0.001				
12/13/2003	<0.001	<0.001	<0.001	<0.001	<0.001				
5/28/2004	0.015	<0.001	<0.001	<0.001	<0.001				
12/10/2004	0.01	<0.001	<0.001	<0.001	<0.001				
6/24/2005	<0.001	<0.001	<0.001	<0.001	<0.001				
12/13/2005	<0.001	<0.001	<0.001	<0.001	<0.001				
7/12/2006	0.013	<0.001	<0.001	<0.001	<0.001				
12/1/2006	<0.001	<0.001	<0.001	<0.001	<0.001				
6/21/2007	<0.001	<0.001	<0.001	<0.001	<0.001				
12/15/2007	<0.001	<0.001	<0.001	<0.001	<0.001				
6/21/2008			<0.001						
6/22/2008	<0.001	<0.001		<0.001	<0.001				
12/6/2008		<0.001	<0.001	<0.001	<0.001				
12/7/2008	<0.001								
7/10/2009		<0.001							
7/11/2009	<0.001		<0.001	<0.001	<0.001				
12/22/2009				<0.001					
12/23/2009	<0.001	<0.001	<0.001		<0.001				
6/23/2010		<0.001	<0.001	<0.001	<0.001				
6/24/2010	<0.001								
1/8/2011		<0.001	<0.001	<0.001	<0.001				
1/9/2011	<0.001								
7/10/2011		<0.001	<0.001	<0.001	<0.001				
7/11/2011	<0.001								
1/19/2012		<0.001	<0.001						
1/20/2012	<0.001			<0.001	<0.001				
7/12/2012		<0.001	<0.001	<0.001	<0.001				
7/13/2012	<0.001								
1/21/2013	<0.001	<0.001	<0.001	<0.001	<0.001				
7/20/2013	<0.001	<0.001	<0.001	<0.001	<0.001				
1/17/2014	<0.001	<0.001	<0.001	<0.001	<0.001				
7/12/2014	<0.001	<0.001	<0.001	<0.001	<0.001				
1/15/2015		<0.001	<0.001		<0.001				
1/16/2015	<0.001			<0.001					<0.001
7/15/2015	<0.001	<0.001	<0.001	<0.001	<0.001				<0.001
1/16/2016	<0.001	<0.001	<0.001	<0.001	<0.001				
1/17/2016									<0.001
6/22/2016	0.00125 (JD)	0.00025 (JD)	0.0003 (J)	0.001 (J)	0.0001 (J)				
8/31/2016		<0.001	<0.001	0.00099 (J)	<0.001				
9/1/2016	0.082 (o)								
1/19/2017		<0.001	<0.001	0.001 (J)					
1/24/2017					<0.001				

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)	GWC-6A
2/28/2017	<0.001								
7/17/2017	<0.001								
7/18/2017		<0.001	<0.001						
7/19/2017				0.00081 (J)	<0.001				
9/20/2017	0.00035 (J)	<0.001							
9/21/2017			0.0076	0.00086 (J)	0.0014 (o)				
1/8/2018	<0.001								
1/9/2018		<0.001	0.0023	0.00059 (J)	<0.001				
3/27/2018	<0.001	<0.001	<0.001	<0.001					
3/29/2018					<0.001				
7/10/2018	<0.001	<0.001	<0.001	0.00045 (J)	<0.001				
10/8/2018	<0.001		<0.001	<0.001		<0.001	<0.001		
10/9/2018		<0.001			<0.001				
1/30/2019	0.00021 (J)	0.00034 (J)	0.00013 (J)	0.00064 (J)		<0.001	0.00028 (J)		
1/31/2019					<0.001				
3/27/2019	<0.001			0.0012 (J)					
3/28/2019		0.00038 (J)	<0.001		<0.001	<0.001	<0.001		
9/11/2019	<0.001								
9/12/2019		<0.001	<0.001	0.00082 (J)	<0.001	<0.001	<0.001		
3/10/2020	0.00015 (J)	0.00013 (J)	0.00031 (J)	0.0022			<0.001		
3/11/2020						<0.001			
3/31/2020					<0.001				
4/2/2020		0.00062 (J)							
9/21/2020	<0.001	<0.001	0.00025 (J)			<0.001			
9/22/2020				0.0012	<0.001		<0.001		
3/23/2021	0.00017 (J)	0.00029 (J)			<0.001	<0.001	<0.001	<0.001	<0.001
3/24/2021			0.00021 (J)	0.00066 (J)					
8/17/2021	<0.001	0.00015 (J)	<0.001	0.00044 (J)		<0.001	0.00073 (J)	<0.001	
8/18/2021					<0.001				<0.001
2/7/2022						<0.001	<0.001		
2/8/2022	<0.001	<0.001	<0.001	0.00058 (J)	<0.001			<0.001	
2/9/2022									<0.001
8/30/2022	<0.001	<0.001	<0.001	0.00064 (J)	<0.001	<0.001	<0.001	<0.001	
8/31/2022									<0.001
1/31/2023						<0.001	<0.001	<0.001	<0.001
2/1/2023		0.00027 (J)	<0.001		<0.001				
2/2/2023				0.0013					
3/28/2023							<0.001		
3/29/2023									<0.001
5/30/2023								0.00043 (J)	
5/31/2023									0.00038 (J)
7/26/2023								<0.001	<0.001
8/28/2023			<0.001			<0.001		<0.001	
8/29/2023		<0.001			<0.001		<0.001		0.00038 (J)
9/6/2023				0.0007 (J)					
1/23/2024		0.00031 (J)	<0.001	0.0011	<0.001	0.00056 (J)	<0.001	<0.001	0.00023 (J)
8/19/2024						<0.001	<0.001		
8/20/2024		0.0003 (J)	<0.001	0.00046 (J)	<0.001			<0.001	<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

GWC-5A

GWC-1A

10/5/1999
11/12/1999
12/29/1999
2/17/2000
9/13/2000
11/10/2000
1/4/2001
12/11/2001
4/4/2002
12/6/2002
6/28/2003
12/13/2003
5/28/2004
12/10/2004
6/24/2005
12/13/2005
7/12/2006
12/1/2006
6/21/2007
12/15/2007
6/21/2008
6/22/2008
12/6/2008
12/7/2008
7/10/2009
7/11/2009
12/22/2009
12/23/2009
6/23/2010
6/24/2010
1/8/2011
1/9/2011
7/10/2011
7/11/2011
1/19/2012
1/20/2012
7/12/2012
7/13/2012
1/21/2013
7/20/2013
1/17/2014
7/12/2014
1/15/2015
1/16/2015
7/15/2015
1/16/2016
1/17/2016
6/22/2016
8/31/2016
9/1/2016
1/19/2017
1/24/2017

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-5A	GWC-1A
2/28/2017		
7/17/2017		
7/18/2017		
7/19/2017		
9/20/2017		
9/21/2017		
1/8/2018		
1/9/2018		
3/27/2018		
3/29/2018		
7/10/2018		
10/8/2018		
10/9/2018		
1/30/2019		
1/31/2019		
3/27/2019		
3/28/2019		
9/11/2019		
9/12/2019		
3/10/2020		
3/11/2020		
3/31/2020		
4/2/2020		
9/21/2020		
9/22/2020		
3/23/2021		
3/24/2021	0.0003 (J)	<0.001
8/17/2021		
8/18/2021	0.00021 (J)	<0.001
2/7/2022		
2/8/2022	0.00061 (J)	
2/9/2022		<0.001
8/30/2022		<0.001
8/31/2022	0.00027 (J)	
1/31/2023	<0.001	<0.001
2/1/2023		
2/2/2023		
3/28/2023		
3/29/2023	<0.001	<0.001
5/30/2023		
5/31/2023	0.00061 (J)	0.00048 (J)
7/26/2023	<0.001	<0.001
8/28/2023		
8/29/2023	<0.001	<0.001
9/6/2023		
1/23/2024	0.0003 (J)	<0.001
8/19/2024		
8/20/2024	0.00024 (J)	<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-4A	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)	GWC-2	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	0.02	<0.002	<0.002	<0.002	<0.002	0.015 (o)			
11/12/1999	0.027	<0.002	<0.002	<0.002	<0.002	<0.002			
12/29/1999	0.055 (o)	<0.002	<0.002	<0.002	<0.002	<0.002			
2/17/2000	0.042 (o)	<0.002	<0.002	<0.002	<0.002	<0.002			
9/13/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
11/10/2000	0.014	<0.002	<0.002	<0.002	<0.002	<0.002			
1/4/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
12/11/2001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
4/4/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
12/6/2002	<0.002	<0.002	0.03	<0.002	<0.002	<0.002			
6/28/2003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
12/13/2003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
5/28/2004	0.017	<0.002	<0.002	<0.002	<0.002	<0.002			
12/10/2004	0.0082	<0.002	<0.002	<0.002	<0.002	<0.002			
6/24/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
12/13/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
7/12/2006	0.023	<0.002	<0.002	<0.002	<0.002	<0.002			
12/1/2006	0.0081	<0.002	<0.002	<0.002	<0.002	<0.002			
6/21/2007	0.009	<0.002	0.07 (o)	<0.002	0.0038	<0.002			
12/15/2007	0.0056	<0.002	<0.002	<0.002	<0.002	<0.002			
6/21/2008		<0.002		<0.002					
6/22/2008	0.013		0.0026		<0.002	<0.002			
12/6/2008		<0.002	<0.002	<0.002	<0.002	<0.002			
12/7/2008	0.0027								
7/10/2009					<0.002				
7/11/2009	0.0032	<0.002	<0.002	<0.002		<0.002			
12/22/2009			<0.002						
12/23/2009	0.0093	<0.002		<0.002	<0.002	<0.002			
6/23/2010		<0.002	<0.002	<0.002	<0.002	<0.002			
6/24/2010	0.0033								
1/8/2011		<0.002	<0.002	<0.002	<0.002	<0.002			
1/9/2011	<0.002								
7/10/2011		<0.002	<0.002	<0.002	<0.002	<0.002			
7/11/2011	<0.002								
1/19/2012				<0.002	<0.002				
1/20/2012	<0.002	<0.002	<0.002					<0.002	
7/12/2012		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
7/13/2012	0.011								
1/21/2013	0.028	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
7/20/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
1/17/2014	0.019	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
7/11/2014		<0.002							
7/12/2014	<0.005 (J)		<0.002	<0.002	<0.002	<0.002		<0.002	
1/15/2015				<0.002	<0.002	<0.002		<0.002	
1/16/2015	0.0012 (J)	<0.002	0.0011 (J)						
7/15/2015	<0.002	<0.002	0.0016 (J)	<0.002	<0.002	<0.002		<0.002	
1/16/2016	0.0015 (J)		<0.002	0.00082 (J)	0.0011 (J)				
1/17/2016		<0.002						<0.002	
6/22/2016	0.0081 (JD)	<0.002	0.0018 (J)	<0.002	<0.002	<0.002		0.0019 (J)	
1/19/2017			0.0033	0.0025	<0.002				
1/24/2017								0.0062	
1/25/2017		<0.002							

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-4A	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)	GWC-2	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
2/28/2017	0.0019 (J)								
7/17/2017	<0.002								
7/18/2017				<0.002	<0.002				
7/19/2017			0.0045			0.0015 (J)			
7/20/2017		<0.002							
1/8/2018	<0.002								
1/9/2018		<0.002	0.0027	0.0072	<0.002	<0.002			
7/10/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
1/30/2019	<0.002	<0.002	0.0019 (J)	<0.002	<0.002		<0.002	<0.002	
1/31/2019						<0.002			
3/27/2019	<0.002		<0.002						
3/28/2019		<0.002		<0.002	<0.002	<0.002	<0.002	<0.002	
9/11/2019	0.0014								
9/12/2019		0.0021	0.004	0.0017	0.002	0.0018	0.002	0.0021	
3/10/2020	<0.002		0.01	<0.002	<0.002			<0.002	
3/11/2020							<0.002		
3/31/2020		<0.002				<0.002			
4/2/2020					0.0013				
9/21/2020	<0.002			0.0012	<0.002		<0.002		
9/22/2020		<0.002	0.0056			<0.002		<0.002	
3/23/2021	<0.002				<0.002	<0.002	<0.002	<0.002	<0.002
3/24/2021		<0.002	0.0018	<0.002					
8/17/2021	<0.002		0.0018	<0.002	<0.002		<0.002	<0.002	<0.002
8/18/2021		<0.002				<0.002			
2/7/2022							0.0011	<0.002	
2/8/2022	<0.002		0.0023	<0.002	<0.002	<0.002			<0.002
2/9/2022		<0.002							
8/30/2022	0.0019	<0.002	0.0028	<0.002	<0.002	<0.002	0.0016	0.0016	0.0019
1/31/2023							<0.002	<0.002	<0.002
2/1/2023		<0.002		<0.002	<0.002	<0.002			
2/2/2023			0.0041						
3/28/2023									<0.002
3/29/2023									
5/30/2023									<0.002
5/31/2023									
7/26/2023									<0.002
8/28/2023				<0.002			<0.002		<0.002
8/29/2023		<0.002			<0.002	<0.002		<0.002	
9/6/2023			0.0015 (J)						
1/23/2024		<0.002	0.0011 (J)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/19/2024							<0.002	<0.002	
8/20/2024		<0.002	0.0012 (J)	<0.002	0.00095 (J)	<0.002			<0.002

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

GWC-1A

10/5/1999
11/12/1999
12/29/1999
2/17/2000
9/13/2000
11/10/2000
1/4/2001
12/11/2001
4/4/2002
12/6/2002
6/28/2003
12/13/2003
5/28/2004
12/10/2004
6/24/2005
12/13/2005
7/12/2006
12/1/2006
6/21/2007
12/15/2007
6/21/2008
6/22/2008
12/6/2008
12/7/2008
7/10/2009
7/11/2009
12/22/2009
12/23/2009
6/23/2010
6/24/2010
1/8/2011
1/9/2011
7/10/2011
7/11/2011
1/19/2012
1/20/2012
7/12/2012
7/13/2012
1/21/2013
7/20/2013
1/17/2014
7/11/2014
7/12/2014
1/15/2015
1/16/2015
7/15/2015
1/16/2016
1/17/2016
6/22/2016
1/19/2017
1/24/2017
1/25/2017

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

GWC-1A

2/28/2017	
7/17/2017	
7/18/2017	
7/19/2017	
7/20/2017	
1/8/2018	
1/9/2018	
7/10/2018	
1/30/2019	
1/31/2019	
3/27/2019	
3/28/2019	
9/11/2019	
9/12/2019	
3/10/2020	
3/11/2020	
3/31/2020	
4/2/2020	
9/21/2020	
9/22/2020	
3/23/2021	
3/24/2021	<0.002
8/17/2021	
8/18/2021	<0.002
2/7/2022	
2/8/2022	
2/9/2022	<0.002
8/30/2022	0.00087 (J)
1/31/2023	<0.002
2/1/2023	
2/2/2023	
3/28/2023	
3/29/2023	<0.002
5/30/2023	
5/31/2023	<0.002
7/26/2023	<0.002
8/28/2023	
8/29/2023	<0.002
9/6/2023	
1/23/2024	<0.002
8/19/2024	
8/20/2024	<0.002

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-3A (bg)	GWA-2B (bg)	GWA-7A (bg)	GWC-6A
10/5/1999	0.043	0.039	<0.005	0.028	<0.005	0.023			
11/12/1999	0.035	0.025	<0.005	<0.005	<0.005	<0.005			
12/29/1999	0.058	0.023	<0.005	0.022	<0.005	<0.005			
2/17/2000	0.051	<0.005	<0.005	0.021	<0.005	<0.005			
9/13/2000	<0.005	0.035	0.021	<0.005	0.036 (o)	<0.005			
11/10/2000	<0.005	0.023	<0.005	<0.005	<0.005	<0.005			
1/4/2001	<0.005	0.027	<0.005	<0.005	<0.005	<0.005			
12/11/2001	<0.005	0.036	<0.005	<0.005	<0.005	<0.005			
4/4/2002	<0.005	0.038	<0.005	0.069 (o)	<0.005	<0.005			
12/6/2002	<0.005	0.033	0.06	0.012	0.012	<0.005			
6/28/2003	<0.005	0.018	0.19 (o)	0.011	<0.005	<0.005			
12/13/2003	<0.005	0.013	0.067	<0.005	<0.005	<0.005			
5/28/2004	0.034	<0.005	0.068	<0.005	<0.005	<0.005			
12/10/2004	0.021	<0.005	0.039	0.027	<0.005	<0.005			
6/24/2005	<0.005	<0.005	0.033	<0.005	<0.005	<0.005			
12/13/2005	0.013	0.011	0.039	0.011	<0.005	<0.005			
7/12/2006	0.074	0.0055	0.022	0.0064	<0.005	0.0047			
12/1/2006	0.048	0.0052	0.018	0.0077	0.098 (o)	0.065			
6/21/2007	0.067	0.0062	0.058	0.0082	0.0043	0.008			
12/15/2007	0.053	0.0055	0.0072	0.0063	0.0057	0.0043			
6/21/2008		0.011			0.0064				
6/22/2008	0.024		0.011	0.0074		0.0062			
12/6/2008		0.008	0.011	0.0066	0.0052	0.051			
12/7/2008	0.0087								
7/10/2009						0.0043			
7/11/2009	0.045	0.011	0.013	0.0054	0.0049				
12/22/2009			0.013						
12/23/2009	0.054	0.0051		0.0046	0.005	0.0039			
6/23/2010		0.0031	0.0084	0.0041	0.0044	<0.005			
6/24/2010	0.0065								
1/8/2011		0.0035	0.0089	0.019	0.0036	0.0037			
1/9/2011	0.022								
7/10/2011		0.0081	0.0084	0.005	0.0046	0.0047			
7/11/2011	0.0032								
1/19/2012		0.017				0.0045			
1/20/2012	0.0089		0.0094	0.007	0.0045				
7/12/2012		0.01	0.0098	0.0045	0.0041	0.0033			
7/13/2012	0.012								
1/21/2013	0.024	0.013	0.007	0.0045	0.0038	0.0038			
7/20/2013	0.0068	<0.005	0.0074	<0.005	0.0047	0.004			
1/17/2014	0.02	0.0066	0.0092	0.0075	0.0051	0.005			
7/11/2014					0.0066				
7/12/2014	0.0055	0.0054	0.013	0.0051		0.004			
1/15/2015		0.0076		0.0054		0.0056			
1/16/2015	0.0043		0.0081		0.0046				
7/15/2015	0.0026	0.0053	0.009	0.0049	0.0036	0.0034			
1/16/2016	0.0035	0.0048	0.007			0.0038			
1/17/2016				0.0051	0.004				
6/22/2016	0.00805 (JD)	0.0038 (J)	0.0091 (J)	0.0087 (J)	0.0053 (J)	0.00575 (JD)			
1/19/2017		<0.005	0.0065 (J)			<0.005			
1/24/2017				0.0071 (J)					
1/25/2017					<0.005				

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-3A (bg)	GWA-2B (bg)	GWA-7A (bg)	GWC-6A
2/28/2017	<0.005								
7/17/2017	<0.005								
7/18/2017		<0.005				<0.005			
7/19/2017			0.0099 (J)	<0.005					
7/20/2017					<0.005				
1/8/2018	<0.005								
1/9/2018		0.0072 (J)	0.014 (J)	0.0079 (J)	<0.005	<0.005			
7/10/2018	<0.005	<0.005	0.0089 (J)	0.0067 (J)	<0.005	<0.005			
1/30/2019	<0.005	0.006 (J)	0.0057 (J)		0.0042 (J)	0.0058 (J)	0.013 (J)	0.011 (J)	
1/31/2019				<0.005					
3/27/2019	<0.005		0.01 (J)						
3/28/2019		<0.005		0.0069 (J)	<0.005	<0.005	0.014 (J)	0.0086 (J)	
9/11/2019	0.0062								
9/12/2019		0.0073	0.0074	0.0089	0.0093	0.0081	0.0075	0.014	
3/10/2020	<0.005	0.0079	0.0071			0.0079	0.0061		
3/11/2020								0.0099	
3/31/2020				0.0065	<0.005				
4/2/2020						0.011			
9/21/2020	<0.005	0.013				0.0055		0.007	
9/22/2020			0.039	0.029	0.017		0.0066		
3/23/2021	<0.005			0.0085		0.0092	0.0066	0.0096	0.0091
3/24/2021		0.0058	0.0085		0.01				
8/17/2021	0.048	0.029	0.024			0.014	0.026	0.052	
8/18/2021				0.0081	0.012				0.072
2/7/2022							0.0046 (J)	0.0098	
2/8/2022	0.0031 (J)	0.007	0.007	0.0078		0.013			
2/9/2022					0.0039 (J)				0.0069
8/30/2022	<0.005	0.01	0.013	0.012	0.0046 (J)	0.012	0.014	0.0089	
8/31/2022									0.0049 (J)
1/31/2023							0.012	0.0082	<0.005
2/1/2023		0.0089		0.0062	<0.005	0.0071			
2/2/2023			0.0095						
3/28/2023									
3/29/2023									0.0056
5/30/2023									
5/31/2023									0.0049 (J)
7/26/2023									0.011
8/28/2023		0.0064						0.019	
8/29/2023				0.0065	0.004 (J)	0.012	0.011		0.008
9/6/2023			0.0082						
1/23/2024		0.0078	0.0077	0.0069	0.0041 (J)	0.0091	0.01	0.0094	0.0042 (J)
8/19/2024							0.04	0.019	
8/20/2024		0.0081	0.007	0.0067	<0.005	0.019			0.0052

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

GWA-1B (bg)	GWC-1A	GWC-5A
10/5/1999		
11/12/1999		
12/29/1999		
2/17/2000		
9/13/2000		
11/10/2000		
1/4/2001		
12/11/2001		
4/4/2002		
12/6/2002		
6/28/2003		
12/13/2003		
5/28/2004		
12/10/2004		
6/24/2005		
12/13/2005		
7/12/2006		
12/1/2006		
6/21/2007		
12/15/2007		
6/21/2008		
6/22/2008		
12/6/2008		
12/7/2008		
7/10/2009		
7/11/2009		
12/22/2009		
12/23/2009		
6/23/2010		
6/24/2010		
1/8/2011		
1/9/2011		
7/10/2011		
7/11/2011		
1/19/2012		
1/20/2012		
7/12/2012		
7/13/2012		
1/21/2013		
7/20/2013		
1/17/2014		
7/11/2014		
7/12/2014		
1/15/2015		
1/16/2015		
7/15/2015		
1/16/2016		
1/17/2016		
6/22/2016		
1/19/2017		
1/24/2017		
1/25/2017		

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 9/30/2024 12:46 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-1A	GWC-5A
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
1/8/2018			
1/9/2018			
7/10/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	0.0098		
3/24/2021		0.02	0.013
8/17/2021	0.024		
8/18/2021		0.15	0.021
2/7/2022			
2/8/2022	0.0048 (J)		0.011
2/9/2022		0.023	
8/30/2022	0.003 (J)	0.02	
8/31/2022			0.014
1/31/2023	<0.005	0.018	0.0088
2/1/2023			
2/2/2023			
3/28/2023	0.0096		
3/29/2023		0.02	0.01
5/30/2023	0.0076		
5/31/2023		0.02	0.0096
7/26/2023	<0.005	0.019	0.011
8/28/2023	0.0029 (J)		
8/29/2023		0.017	0.01
9/6/2023			
1/23/2024	0.05	0.018	0.016
8/19/2024			
8/20/2024	0.0035 (J)	0.02	0.015

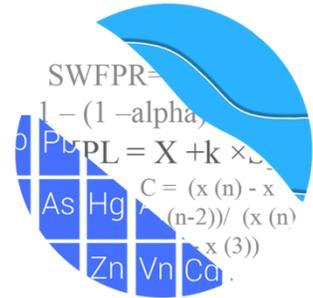
APPENDIX B

*Statistical Analysis Report
January 2025 Monitoring Event*

GROUNDWATER STATS CONSULTING

July 31, 2025

Southern Company Services
Attn: Kevin Stephenson, P.G.
241 Ralph McGill Blvd NE, Bin 10060
Atlanta, Georgia 30308



Re: Plant McIntosh Landfill #3
Statistical Analysis – January 2025 Semi-Annual Sample Event

Dear Mr. Stephenson,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of the January 2025 semi-annual sample event for Georgia Power Company's Plant McIntosh Landfill #3. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling at the majority of wells began for the CCR program in 2016, and for the state program in accordance with the Georgia EPD's Solid Waste Permit in 1999. Semi-annual sampling for select constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations; and all available data from upgradient wells are screened in this report.

The current monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GWA-1B, GWA-2B, GWA-3A, GWA-4, GWA-5, and GWA-7A
- **Downgradient wells:** GWC-1A, GWC-2, GWC-4A, GWC-5A, and GWC-6A

Previously, the monitoring well network included upgradient well GWA-1A and downgradient wells GWC-1, GWC-5, and GWC-6. However, these wells were recently

abandoned and replacement upgradient well GWA-1B and downgradient wells GWC-1A, GWC-5A, and GWC-6A were installed. While abandoned downgradient wells GWC-1, GWC-5, and GWC-6 are not included in the analysis, data from upgradient well GWA-1A continue to be included in construction of interwell prediction limits since the data represents historical groundwater quality upgradient of the facility.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting. In 2024, Georgia Power Company completed a data audit and migration of all CCR related groundwater data to the EarthSoft EQuIS Database Management Program (EQuIS). Data were then exported from EQuIS to Groundwater Stats Consulting (GSC) for use in completing this statistical analysis. Georgia Power Company contracted an independent third-party consultant, Environmental Resources Management (ERM), to support the data audit and migration to EQuIS. Based on the results of the audit and statistical analysis results from GSC, EQuIS will now be used by Georgia Power Company and its third-party geologists and engineers for management of data imported by independent third-party laboratories and data exported by Georgia Power Company and its Consultants. The data will be used in preparation of report submittals, modeling, strategic planning, and other purposes appropriate and consistent with EQuIS's data management and reporting tools and capabilities.

The analysis is prepared according to the recommended interwell statistical methodology as presented in the USEPA Unified Guidance. The original screening was conducted in Fall 2019 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance. During the initial screening both intrawell and interwell statistical methods were recommended. However, further studies conducted by Southern Company Services of waste placement with respect to when groundwater monitoring began suggested interwell methods for all constituents should be used as the primary statistical method.

The following constituents were evaluated in this report:

- **CCR Appendix III** - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Georgia EPD Appendix I** - barium, beryllium, chromium, cobalt, copper, lead, vanadium, and zinc

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A list of downgradient Appendix I well/constituent pairs containing 100% non-detects follows this letter.

Due to varying detection limits in background data sets as a result of improved laboratory practices, a substitution of the most recent reporting limit is used for all non-detects.

Time series plots for reported CCR Appendix III and Georgia EPD Appendix I constituents are provided for all 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 both within individual wells and between all wells.

Data at all wells were evaluated during the initial background screening in 2019, as described below, for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for constituents based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Because groundwater sampling began after waste was placed, interwell prediction limits were determined to be the most appropriate statistical method. Power curves were provided during previous analyses and demonstrated that the interwell methods for all constituents comply with the USEPA Unified Guidance recommendations as discussed below. 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. Power curves were based on the following statistical methods:

CCR Appendix III Constituents:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan
- # Constituents: 7
- # Downgradient wells: 5

Georgia EPD Appendix I Constituents:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan
- # Constituents: 8
- # Downgradient wells: 5

Summary of Statistical Methods – All Constituents

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. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits. Non-detects are handled as follows:

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits will be necessary to accommodate these types of changes. In the interwell case, newer data are included during each sample event after screening for new outliers in upgradient wells. In some cases, the earlier portion of data may require deselection prior to construction of limits in order to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs, and a summary of any truncated records will be provided.

Summary of Initial Background Screening (2019) – All Constituents

Outlier Analysis

The original background screening for the CCR and Georgia EPD state programs was conducted in 2019 and the results were submitted at that time. Several values were identified and flagged as outliers in both upgradient and downgradient wells for all constituents. Suspected outliers at upgradient wells for all constituents were formally tested using Tukey's box plot method and, when confirmed, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

When suspected outliers were evaluated using the Tukey box plot method, several outliers were identified. As a general rule, when the most recent values are identified as outliers, values are not flagged in the database (except in cases where statistical limits would be elevated) as the concentrations may represent a possible trend. If future values do not remain at similar concentrations, these values may be flagged as outliers and deselected. Note that for some well/constituent pairs, the test identified multiple outliers. However, in many of those cases, only the highest value(s) were flagged as outliers as the remaining values were similar to other measurements within the same well or neighboring wells. In other cases, the test did not identify an outlier; however, the highest measurement(s) did not appear to represent the population and were flagged as outliers in the database to establish limits that are conservative from a regulatory perspective.

Seasonality

No seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Tests

Time series plots were also used to identify any visually trending patterns in upgradient well data. None were observed except for increasing low-level concentrations of chloride in upgradient well GWA-3A. However, because the more recent observations were similar to those historically reported in upgradient well GWA-5, no adjustments were required at the time of the screening.

In the future, if statistically significant increasing or decreasing trends are identified in the pooled upgradient well data, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. A list of the adjusted background date ranges will be provided if this step is required in future analyses.

Statistical Analysis of CCR Appendix III Parameters – January 2025

Outlier Analysis

During this analysis, only upgradient well data were re-evaluated through time series graphs for new outliers, or extreme values in background that would result in limits that are not conservative from a regulatory perspective, prior to construction of interwell prediction limits. Values flagged in downgradient wells from previous analyses remain flagged for being several standard deviations above remaining concentrations within each respective well/constituent pair but have no impact on calculations of interwell prediction limits. Tukey's outlier test on pooled upgradient well data for boron, calcium, chloride, fluoride, pH, sulfate, and TDS identified values for all Appendix III parameters.

Previously flagged values were confirmed by Tukey's outlier test and visual screening during this analysis. Any values identified by Tukey's test for Appendix III parameters, but not flagged in the database, would not greatly reduce variation within the record if flagged. No additional values were identified as spurious for Appendix III parameters among upgradient wells; therefore, no additional values were flagged. When any values are flagged in the database as outliers, the measurements are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. A list of all flagged values follows this letter (Figure C).

Upgradient Well Trend Test Evaluation

During this analysis, the Sen's Slope/Mann-Kendall trend test was performed to evaluate whether statistically significant trends were present among upgradient wells (Figure D). While statically significant trends were identified in at least one upgradient well for calcium, chloride, pH, sulfate, and TDS, truncation of the records with statistically significant trends was not required as the individual trends relative to pooled upgradient well data would not impact resulting statistical limits. It was noted that low-level concentrations in upgradient well GWA-3A have steadily increased since 2016 for calcium, chloride, and TDS. These measurements will continue to be evaluated and, as mentioned above, earlier portions of the record may require truncation if concentrations no longer represent groundwater quality upgradient of the site

Interwell Prediction Limits

For all Appendix III parameters, interwell prediction limits combined with a 1-of-2 resample plan were constructed using all upgradient historical data through January 2025

(Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent 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. If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no exceedance is noted, and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Summary tables of the Appendix III prediction limits follow this letter. No exceedances were noted for Appendix III parameters; therefore, no further action was required.

Trend Test Evaluation – Prediction Limit Exceedances

While this step was not required during this analysis as a result of no prediction limit exceedances, when data from downgradient well/constituent pairs are found to exceed their respective prediction limit, data will be further evaluated using the Sen's Slope/Mann Kendall trend test along with upgradient wells for the same constituents. 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. Such patterns are an indication of variability in groundwater unrelated to practices at the site.

Statistical Analysis of Georgia EPD Appendix I Parameters – January 2025

Outlier Analysis

As mentioned above, only upgradient well data were re-evaluated through time series graphs for new outliers, or extreme values in background that would result in limits that are not conservative from a regulatory perspective, prior to construction of interwell prediction limits. Values flagged in downgradient wells from previous analyses remain flagged since the measurements were several standard deviations above remaining concentrations within each respective well/constituent pair but have no impact on calculations of interwell prediction limits. Tukey's outlier test on pooled upgradient well data for barium, beryllium, chromium, cobalt, copper, lead, vanadium, and zinc identified outliers for barium and zinc.

The majority of previously flagged values were confirmed by Tukey's outlier test and visual screening during this analysis; however, a previously flagged value for barium at upgradient well GWA-5 was unflagged during this analysis since observations of similar magnitude are present in the more recent concentrations. Additionally, as a result of the data received from the EQUIS database, some of the reported measurements in upgradient wells for cobalt were different from those historically used in the Sanitas database. The measurements of 0.01 mg/L for cobalt in upgradient well GWA-5 provided by the EQUIS database were flagged as outliers during this analysis since the measurements occurred early in the record and are higher than the remaining measurements among upgradient wells for cobalt.

Any values identified by Tukey's test for barium and zinc, but not flagged in the database, would not greatly reduce variation within the record if flagged. No additional values were identified as spurious for Appendix I parameters among upgradient wells; therefore, no additional values were flagged.

Upgradient Well Trend Test Evaluation

As mentioned above, the Sen's Slope/Mann-Kendall trend test was performed to evaluate whether statistically significant trends were present among upgradient wells (Figure D). While significant trends were identified for barium, beryllium, cobalt, and lead, some of the significant trends for these constituents had a slope of zero, which represents the median of all pairwise slopes, due to high concentrations of non-detects. It was noted that concentrations in upgradient well GWA-3A have steadily increased since 2016 for barium and cobalt. Truncation of any records was not required as the individual trends relative to pooled upgradient well data would not impact resulting statistical limits.

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all available data from upgradient wells through January 2025 (Figure F). As previously discussed, no statistical analyses were included for downgradient well/constituent pairs containing 100% non-detects. A summary table of the prediction limits along with the complete prediction limits results follows this letter. No exceedances were noted for any of the Appendix I parameters.

Trend Test Evaluation – Prediction Limit Exceedances

As mentioned above, data from downgradient well/constituent pairs found to exceed their respective prediction limit are further evaluated using the Sen's Slope/Mann Kendall

trend test along with upgradient wells for the same constituents. Upgradient wells are included in the trend analyses for all parameters with prediction limit exceedances in downgradient wells. Since no prediction limit exceedances were noted for any of the Appendix I constituents, no trend analyses were required.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for McIntosh Landfill #3. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Abdul Diane
Groundwater Analyst



Andrew T. Collins
Project Manager

Table of Contents

Summary Tables	11
Figure A. Time Series	18
Figure B. Box Plots	75
Figure C. Tukey's Outlier Tests & Outlier Summary	84
Figure D. Upgradient Wells Trend Tests	92
Figure E. Appendix III Interwell Prediction Limits	123
Figure F. Appendix I Interwell Prediction Limits	155

Summary Tables

100% Non-Detects

Analysis Run 3/25/2025 3:24 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Copper (mg/L)
GWC-5A, GWC-6A

Lead (mg/L)
GWC-4A

Vanadium (mg/L)
GWC-5A, GWC-6A

Upgradient Wells Trend Test - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 Printed 5/5/2025, 12:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-1A (bg)	-0.002241	-5.053	-2.58	Yes	55	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-3A (bg)	0.00218	8.208	2.58	Yes	60	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	0.0009892	6.967	2.58	Yes	59	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-7A (bg)	-0.009587	-72	-53	Yes	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-1A (bg)	0	-3.471	-2.58	Yes	55	72.73	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-3A (bg)	-0.00003305	-4.109	-2.58	Yes	60	55	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-4 (bg)	0	-3.779	-2.58	Yes	59	72.88	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-5 (bg)	0	-3.889	-2.58	Yes	59	62.71	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2B (bg)	-0.5163	-57	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-3A (bg)	0.4604	231	98	Yes	23	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-4 (bg)	0.06737	133	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-3A (bg)	3.544	245	98	Yes	23	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-1A (bg)	0	-4.179	-2.58	Yes	55	65.45	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-3A (bg)	0	3.036	2.58	Yes	60	51.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-4 (bg)	-0.000009468	-4.769	-2.58	Yes	59	52.54	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-7A (bg)	-0.0005219	-91	-53	Yes	15	0	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-5 (bg)	0	-3.664	-2.58	Yes	51	70.59	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-1A (bg)	0	-3.293	-2.58	Yes	54	75.93	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-3A (bg)	0	-4.671	-2.58	Yes	60	80	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-5 (bg)	-0.000007523	-5.566	-2.58	Yes	59	61.02	n/a	n/a	0.01	NP
pH, Field (SU)	GWA-3A (bg)	-0.0146	-3.34	-2.58	Yes	45	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-1B (bg)	-0.8965	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-3A (bg)	9.558	172	98	Yes	23	4.348	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-7A (bg)	-7.9	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWA-5 (bg)	0	-4.257	-2.58	Yes	55	58.18	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-1A (bg)	-0.0003674	-2.882	-2.58	Yes	50	36	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-4 (bg)	-0.0005431	-3.203	-2.58	Yes	55	16.36	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-5 (bg)	-0.0001419	-3.257	-2.58	Yes	54	14.81	n/a	n/a	0.01	NP

Upgradient Wells Trend Test - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 Printed 5/5/2025, 12:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-1A (bg)	-0.002241	-5.053	-2.58	Yes	55	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-1B (bg)	-0.0008813	-14	-38	No	12	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-2B (bg)	0	3	53	No	15	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-3A (bg)	0.00218	8.208	2.58	Yes	60	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	0.0009892	6.967	2.58	Yes	59	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-5 (bg)	0.0007181	1.273	2.58	No	59	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-7A (bg)	-0.009587	-72	-53	Yes	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-1A (bg)	0	-3.471	-2.58	Yes	55	72.73	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-1B (bg)	0	0	38	No	12	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-2B (bg)	-0.0000246	-7	-53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-3A (bg)	-0.00003305	-4.109	-2.58	Yes	60	55	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-4 (bg)	0	-3.779	-2.58	Yes	59	72.88	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-5 (bg)	0	-3.889	-2.58	Yes	59	62.71	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-7A (bg)	-0.00006577	-25	-53	No	15	20	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-1A (bg)	0	15	74	No	19	84.21	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-1B (bg)	-0.01732	-36	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2B (bg)	-0.03614	-38	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-3A (bg)	0	-20	-98	No	23	43.48	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-4 (bg)	0	-46	-92	No	22	72.73	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-5 (bg)	-0.0004896	-14	-92	No	22	9.091	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-7A (bg)	-0.0602	-42	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-1A (bg)	0	2	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-1B (bg)	0.1326	1	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2B (bg)	-0.5163	-57	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-3A (bg)	0.4604	231	98	Yes	23	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-4 (bg)	0.06737	133	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-5 (bg)	0.0282	19	92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-7A (bg)	-1.022	-47	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-1A (bg)	0.1129	60	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-1B (bg)	-0.479	-23	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2B (bg)	0.3681	36	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-3A (bg)	3.544	245	98	Yes	23	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-4 (bg)	0.3023	90	92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-5 (bg)	0.8229	73	92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-7A (bg)	0.1613	36	53	No	15	0	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-1A (bg)	-0.0002471	-1.988	-2.58	No	53	9.434	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-1B (bg)	0	0	38	No	12	100	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-2B (bg)	0	10	53	No	15	60	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-3A (bg)	0	-0.1447	-2.58	No	60	38.33	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-4 (bg)	0	-1.893	-2.58	No	59	81.36	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-5 (bg)	0	-2.138	-2.58	No	59	45.76	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-7A (bg)	0	-8	-53	No	15	93.33	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-1A (bg)	0	-4.179	-2.58	Yes	55	65.45	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-1B (bg)	0.00002615	24	38	No	12	25	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-2B (bg)	-0.0002069	-17	-53	No	15	6.667	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-3A (bg)	0	3.036	2.58	Yes	60	51.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-4 (bg)	-0.00009468	-4.769	-2.58	Yes	59	52.54	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-5 (bg)	-0.00002792	-2.333	-2.58	No	55	27.27	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-7A (bg)	-0.0005219	-91	-53	Yes	15	0	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-1A (bg)	0	-1.018	-2.58	No	51	84.31	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-1B (bg)	0	11	38	No	12	91.67	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-2B (bg)	-0.00002249	-13	-48	No	14	35.71	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-3A (bg)	0	-0.4886	-2.58	No	56	82.14	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-4 (bg)	0	0.04856	2.58	No	55	92.73	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-5 (bg)	0	-3.664	-2.58	Yes	51	70.59	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-7A (bg)	-0.0001619	-25	-48	No	14	21.43	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-1A (bg)	0	1	68	No	18	88.89	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-1B (bg)	0.01443	13	38	No	12	16.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-2B (bg)	0	10	53	No	15	73.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-3A (bg)	0	-36	-98	No	23	78.26	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-4 (bg)	0	-43	-92	No	22	45.45	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-5 (bg)	0	7	92	No	22	13.64	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-7A (bg)	0	0	53	No	15	93.33	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-1A (bg)	0	-3.293	-2.58	Yes	54	75.93	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-1B (bg)	0	-1	-38	No	12	91.67	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-2B (bg)	0	13	53	No	15	86.67	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-3A (bg)	0	-4.671	-2.58	Yes	60	80	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-4 (bg)	0	-1.355	-2.58	No	59	88.14	n/a	n/a	0.01	NP

Upgradient Wells Trend Test - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 Printed 5/5/2025, 12:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Lead (mg/L)	GWA-5 (bg)	-0.000007523	-5.566	-2.58	Yes	59	61.02	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-7A (bg)	0	-10	-53	No	15	93.33	n/a	n/a	0.01	NP
pH, Field (SU)	GWA-1A (bg)	-0.005616	-58	-206	No	38	0	n/a	n/a	0.01	NP
pH, Field (SU)	GWA-1B (bg)	0.007733	1	38	No	12	0	n/a	n/a	0.01	NP
pH, Field (SU)	GWA-2B (bg)	0.01204	4	53	No	15	0	n/a	n/a	0.01	NP
pH, Field (SU)	GWA-3A (bg)	-0.0146	-3.34	-2.58	Yes	45	0	n/a	n/a	0.01	NP
pH, Field (SU)	GWA-4 (bg)	-0.0198	-2.366	-2.58	No	43	0	n/a	n/a	0.01	NP
pH, Field (SU)	GWA-5 (bg)	0	-0.04188	-2.58	No	43	0	n/a	n/a	0.01	NP
pH, Field (SU)	GWA-7A (bg)	-0.04599	-37	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-1A (bg)	0	-8	-68	No	18	83.33	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-1B (bg)	-0.8965	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2B (bg)	-4.269	-41	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-3A (bg)	0	18	98	No	23	82.61	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-4 (bg)	-0.08576	-42	-92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-5 (bg)	-0.2007	-20	-92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-7A (bg)	-2.858	-36	-53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-1A (bg)	0.8247	2	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-1B (bg)	5.032	20	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-2B (bg)	-5.134	-34	-53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-3A (bg)	9.558	172	98	Yes	23	4.348	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-4 (bg)	2.313	90	92	No	22	4.545	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-5 (bg)	0.5892	24	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-7A (bg)	-7.9	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWA-1A (bg)	0	-1.6	-2.58	No	48	43.75	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWA-1B (bg)	0	5	38	No	12	91.67	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWA-2B (bg)	0	0	48	No	14	78.57	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWA-3A (bg)	0	-1.533	-2.58	No	56	87.5	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWA-4 (bg)	0	-0.7809	-2.58	No	55	89.09	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWA-5 (bg)	0	-4.257	-2.58	Yes	55	58.18	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWA-7A (bg)	0	-12	-48	No	14	71.43	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-1A (bg)	-0.0003674	-2.882	-2.58	Yes	50	36	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-1B (bg)	-0.0009859	-11	-38	No	12	25	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-2B (bg)	0.0009311	15	48	No	14	0	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-3A (bg)	-0.000171	-2.494	-2.58	No	56	37.5	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-4 (bg)	-0.0005431	-3.203	-2.58	Yes	55	16.36	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-5 (bg)	-0.0001419	-3.257	-2.58	Yes	54	14.81	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-7A (bg)	-0.00007046	-4	-48	No	14	0	n/a	n/a	0.01	NP

Appendix III - Interwell Prediction Limits - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 Printed 5/5/2025, 12:10 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-1A	1.9	n/a	1/28/2025	0.62	No	128	n/a	n/a	34.38	n/a	n/a	0.0001209	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	1.9	n/a	1/28/2025	0.11	No	128	n/a	n/a	34.38	n/a	n/a	0.0001209	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4A	1.9	n/a	1/28/2025	0.023J	No	128	n/a	n/a	34.38	n/a	n/a	0.0001209	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-5A	1.9	n/a	1/28/2025	0.08ND	No	128	n/a	n/a	34.38	n/a	n/a	0.0001209	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6A	1.9	n/a	1/28/2025	0.032J	No	128	n/a	n/a	34.38	n/a	n/a	0.0001209	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1A	20	n/a	1/28/2025	2.7	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	20	n/a	1/28/2025	3	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4A	20	n/a	1/28/2025	0.53	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5A	20	n/a	1/28/2025	1.7	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6A	20	n/a	1/28/2025	3.2	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1A	34	n/a	1/28/2025	16	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	34	n/a	1/28/2025	5	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4A	34	n/a	1/28/2025	14	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5A	34	n/a	1/28/2025	11	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6A	34	n/a	1/28/2025	11	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1A	0.51	n/a	1/28/2025	0.1ND	No	127	n/a	n/a	58.27	n/a	n/a	0.0001227	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-2	0.51	n/a	1/28/2025	0.1ND	No	127	n/a	n/a	58.27	n/a	n/a	0.0001227	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-4A	0.51	n/a	1/28/2025	0.1ND	No	127	n/a	n/a	58.27	n/a	n/a	0.0001227	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-5A	0.51	n/a	1/28/2025	0.1ND	No	127	n/a	n/a	58.27	n/a	n/a	0.0001227	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6A	0.51	n/a	1/28/2025	0.1ND	No	127	n/a	n/a	58.27	n/a	n/a	0.0001227	NP Inter (NDs) 1 of 2
pH, Field (SU)	GWC-1A	5.903	4.086	1/28/2025	4.46	No	211	2.226	0.1142	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH, Field (SU)	GWC-2	5.903	4.086	1/28/2025	5.01	No	211	2.226	0.1142	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH, Field (SU)	GWC-4A	5.903	4.086	1/28/2025	4.69	No	211	2.226	0.1142	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH, Field (SU)	GWC-5A	5.903	4.086	1/28/2025	4.69	No	211	2.226	0.1142	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH, Field (SU)	GWC-6A	5.903	4.086	1/28/2025	5.26	No	211	2.226	0.1142	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
Sulfate (mg/L)	GWC-1A	110	n/a	1/28/2025	5ND	No	127	n/a	n/a	26.77	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	110	n/a	1/28/2025	4.6	No	127	n/a	n/a	26.77	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4A	110	n/a	1/28/2025	1.1	No	127	n/a	n/a	26.77	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5A	110	n/a	1/28/2025	5ND	No	127	n/a	n/a	26.77	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6A	110	n/a	1/28/2025	2.2	No	127	n/a	n/a	26.77	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
TDS (mg/L)	GWC-1A	166.9	n/a	1/28/2025	58	No	126	7.988	2.749	1.587	None	sqrt(x)	0.001504	Param Inter 1 of 2
TDS (mg/L)	GWC-2	166.9	n/a	1/28/2025	42	No	126	7.988	2.749	1.587	None	sqrt(x)	0.001504	Param Inter 1 of 2
TDS (mg/L)	GWC-4A	166.9	n/a	1/28/2025	37	No	126	7.988	2.749	1.587	None	sqrt(x)	0.001504	Param Inter 1 of 2
TDS (mg/L)	GWC-5A	166.9	n/a	1/28/2025	37	No	126	7.988	2.749	1.587	None	sqrt(x)	0.001504	Param Inter 1 of 2
TDS (mg/L)	GWC-6A	166.9	n/a	1/28/2025	68	No	126	7.988	2.749	1.587	None	sqrt(x)	0.001504	Param Inter 1 of 2

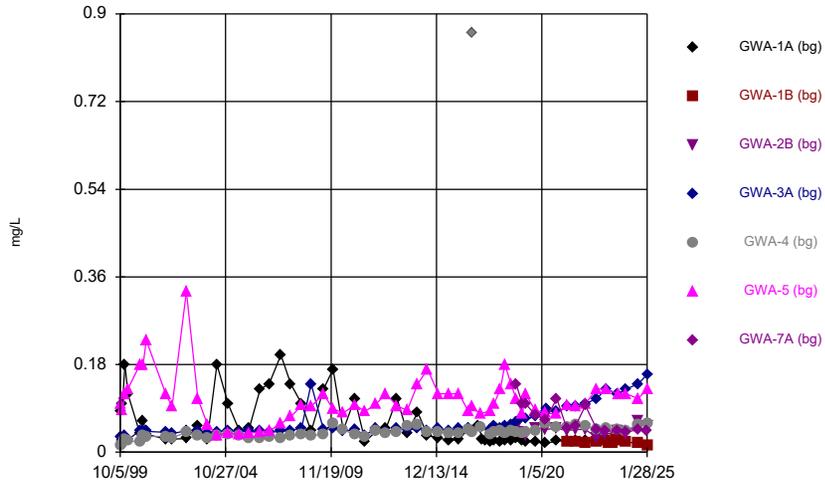
Appendix I - Interwell Prediction Limits - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 Printed 5/5/2025, 12:15 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-1A	0.33	n/a	1/28/2025	0.28	No	275	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-2	0.33	n/a	1/28/2025	0.074	No	275	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-4A	0.33	n/a	1/28/2025	0.047	No	275	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-5A	0.33	n/a	1/28/2025	0.13	No	275	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-6A	0.33	n/a	1/28/2025	0.086	No	275	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Beryllium (mg/L)	GWC-1A	0.0036	n/a	1/28/2025	0.00045J	No	275	n/a	n/a	61.09	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-2	0.0036	n/a	1/28/2025	0.00041J	No	275	n/a	n/a	61.09	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-4A	0.0036	n/a	1/28/2025	0.0025ND	No	275	n/a	n/a	61.09	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-5A	0.0036	n/a	1/28/2025	0.00046J	No	275	n/a	n/a	61.09	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-6A	0.0036	n/a	1/28/2025	0.00035J	No	275	n/a	n/a	61.09	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1A	0.032	n/a	1/28/2025	0.0028	No	273	n/a	n/a	50.55	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.032	n/a	1/28/2025	0.0019J	No	273	n/a	n/a	50.55	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-4A	0.032	n/a	1/28/2025	0.002ND	No	273	n/a	n/a	50.55	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-5A	0.032	n/a	1/28/2025	0.002ND	No	273	n/a	n/a	50.55	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-6A	0.032	n/a	1/28/2025	0.002	No	273	n/a	n/a	50.55	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-1A	0.0072	n/a	1/28/2025	0.0047	No	271	n/a	n/a	43.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-2	0.0072	n/a	1/28/2025	0.0017J	No	271	n/a	n/a	43.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-4A	0.0072	n/a	1/28/2025	0.00061J	No	271	n/a	n/a	43.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-5A	0.0072	n/a	1/28/2025	0.0036	No	271	n/a	n/a	43.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-6A	0.0072	n/a	1/28/2025	0.00095J	No	271	n/a	n/a	43.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Copper (mg/L)	GWC-1A	0.008	n/a	1/28/2025	0.002ND	No	253	n/a	n/a	77.08	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-2	0.008	n/a	1/28/2025	0.002ND	No	253	n/a	n/a	77.08	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-4A	0.008	n/a	1/28/2025	0.002ND	No	253	n/a	n/a	77.08	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1A	0.016	n/a	1/28/2025	0.001ND	No	274	n/a	n/a	78.47	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.016	n/a	1/28/2025	0.001ND	No	274	n/a	n/a	78.47	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-5A	0.016	n/a	1/28/2025	0.001ND	No	274	n/a	n/a	78.47	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-6A	0.016	n/a	1/28/2025	0.001ND	No	274	n/a	n/a	78.47	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1A	0.03	n/a	1/28/2025	0.002ND	No	254	n/a	n/a	72.05	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.03	n/a	1/28/2025	0.002ND	No	254	n/a	n/a	72.05	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-4A	0.03	n/a	1/28/2025	0.002ND	No	254	n/a	n/a	72.05	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWC-1A	0.074	n/a	1/28/2025	0.021	No	255	n/a	n/a	23.14	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.074	n/a	1/28/2025	0.0083	No	255	n/a	n/a	23.14	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-4A	0.074	n/a	1/28/2025	0.0062	No	255	n/a	n/a	23.14	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-5A	0.074	n/a	1/28/2025	0.018	No	255	n/a	n/a	23.14	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-6A	0.074	n/a	1/28/2025	0.0047J	No	255	n/a	n/a	23.14	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

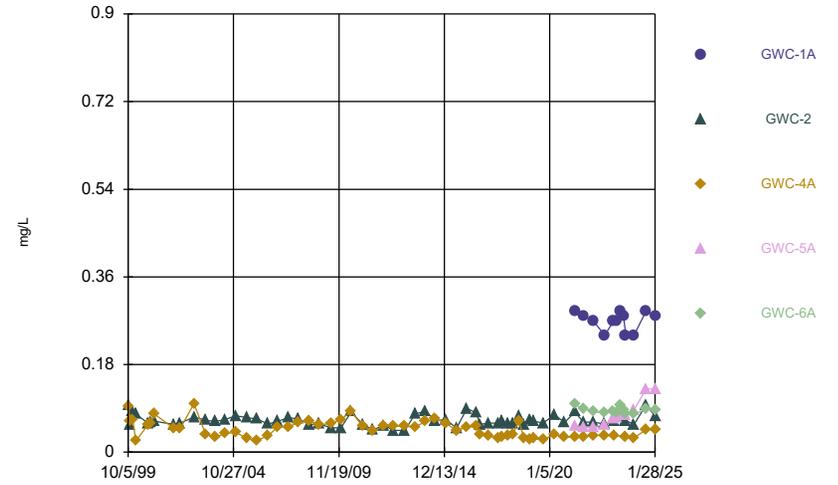
FIGURE A.

Time Series



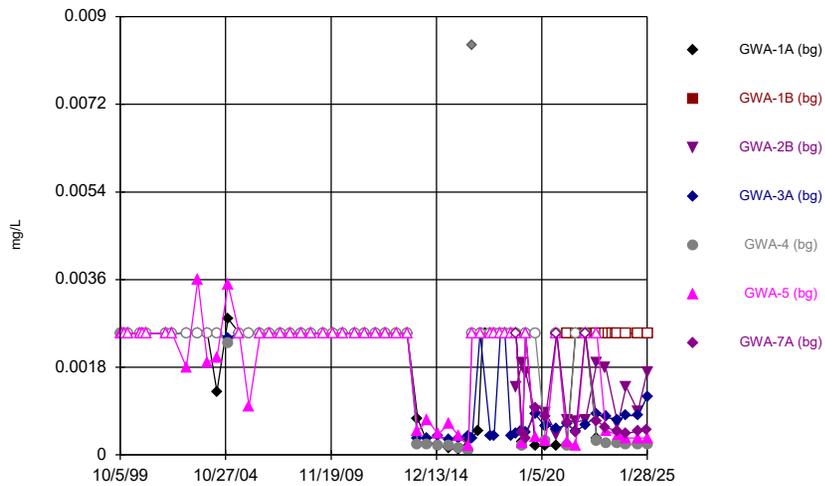
Constituent: Barium Analysis Run 5/2/2025 12:22 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



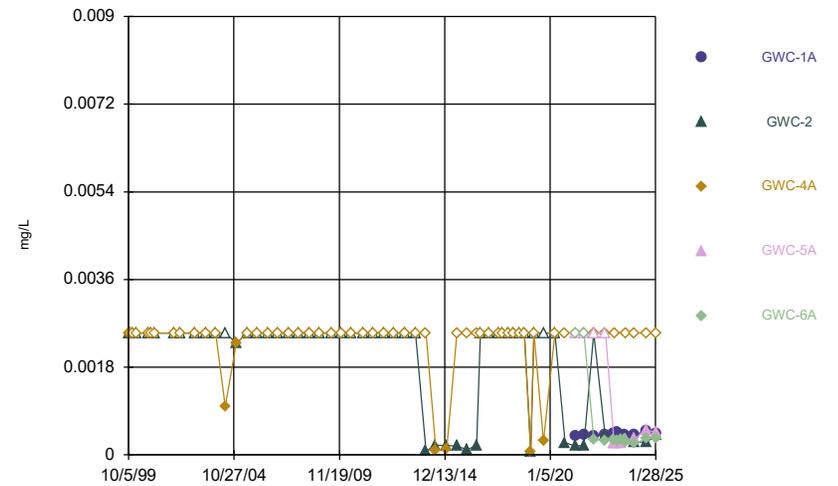
Constituent: Barium Analysis Run 5/2/2025 12:22 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



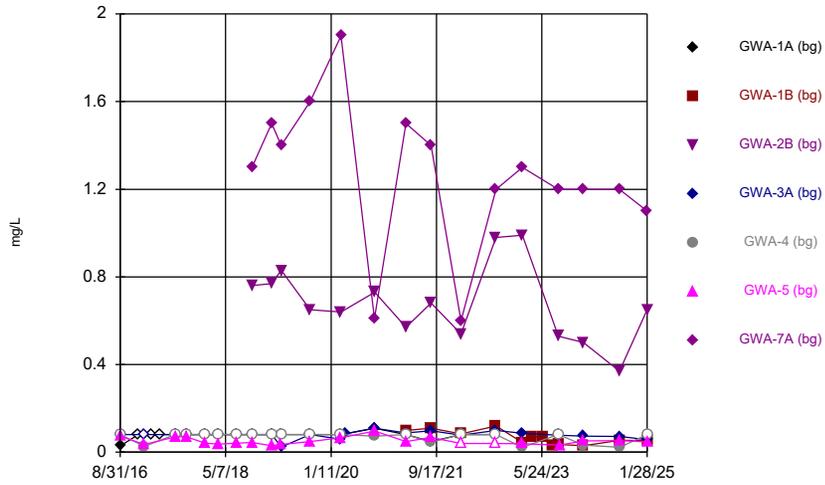
Constituent: Beryllium Analysis Run 5/2/2025 12:22 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



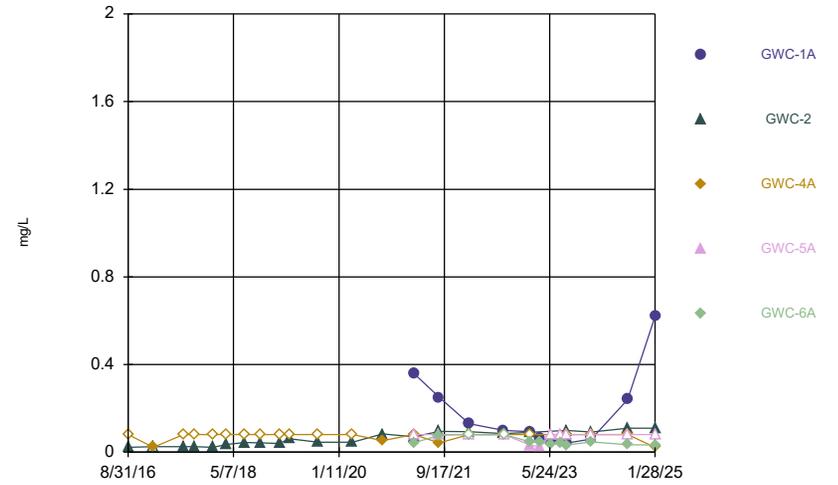
Constituent: Beryllium Analysis Run 5/2/2025 12:22 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



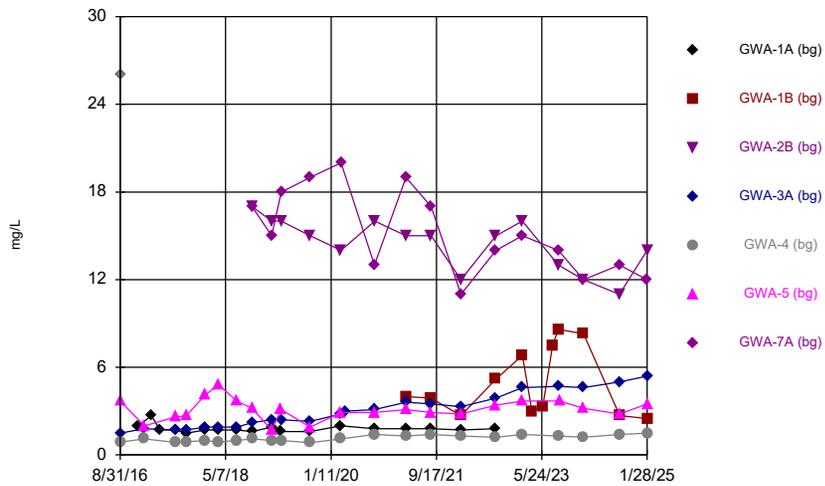
Constituent: Boron Analysis Run 5/2/2025 12:22 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



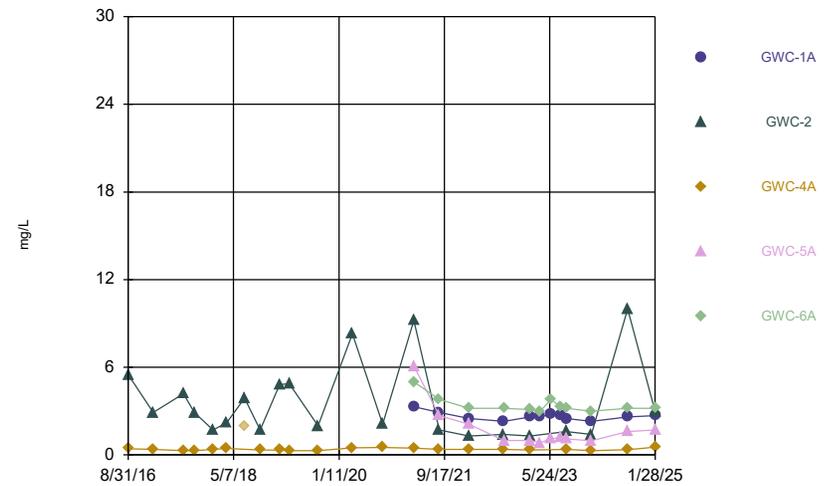
Constituent: Boron Analysis Run 5/2/2025 12:22 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



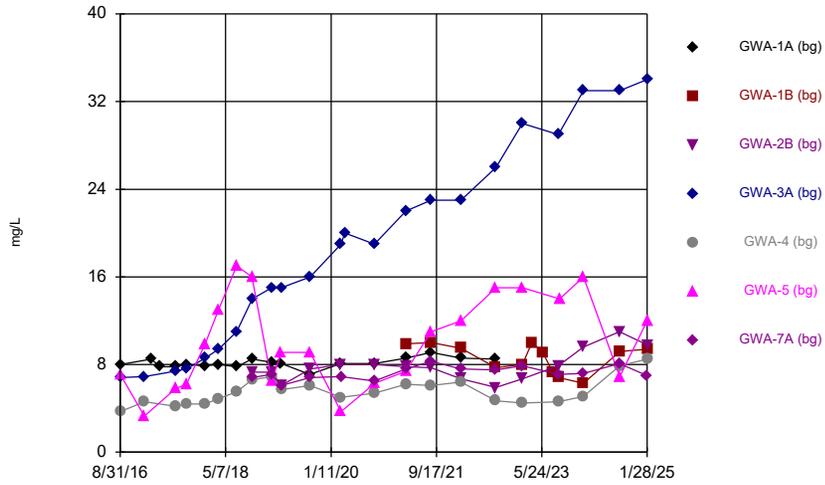
Constituent: Calcium Analysis Run 5/2/2025 12:22 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



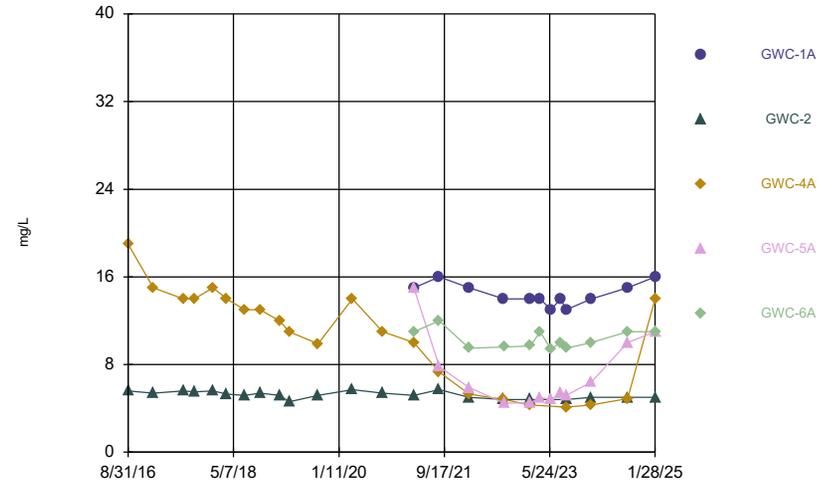
Constituent: Calcium Analysis Run 5/2/2025 12:22 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



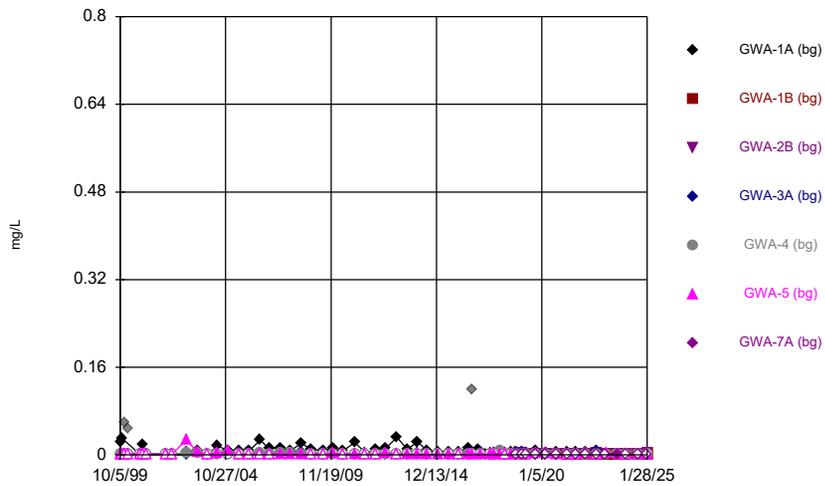
Constituent: Chloride Analysis Run 5/2/2025 12:22 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



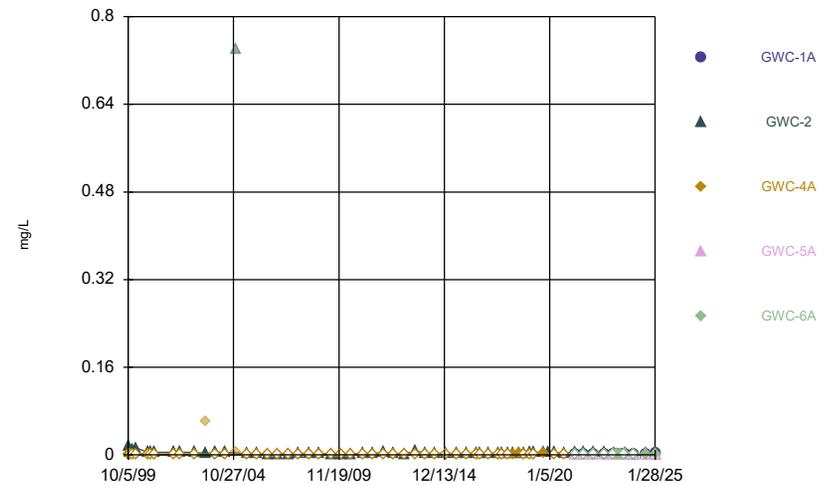
Constituent: Chloride Analysis Run 5/2/2025 12:22 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



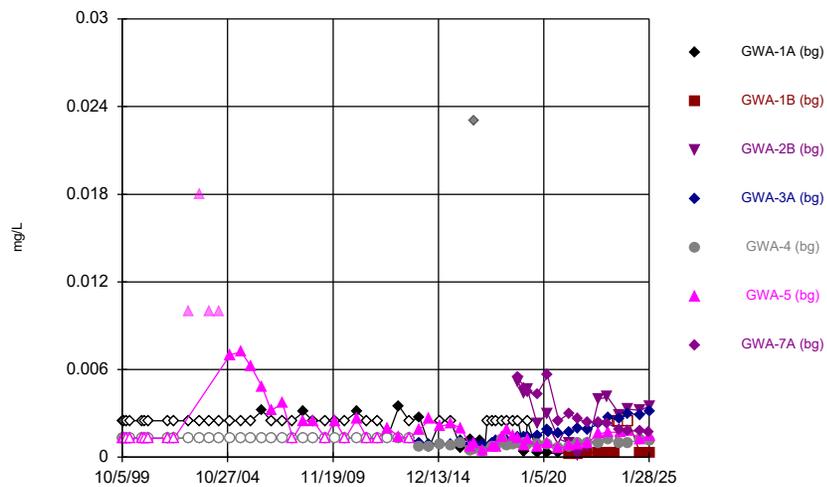
Constituent: Chromium Analysis Run 5/2/2025 12:22 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



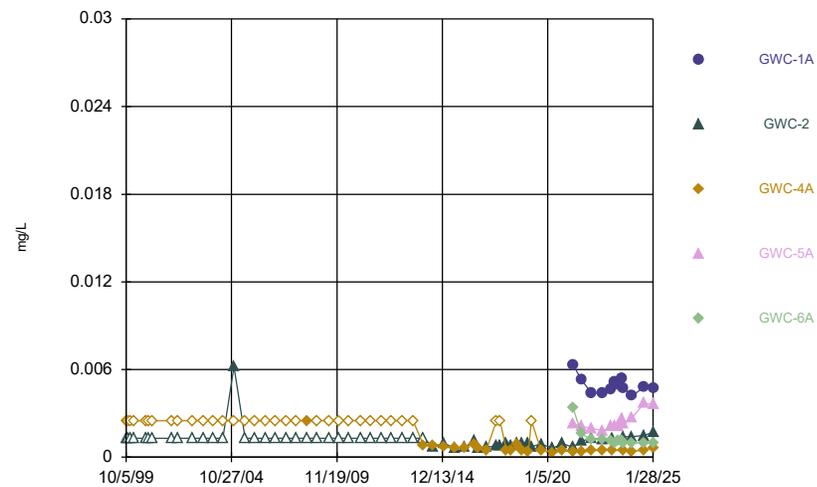
Constituent: Chromium Analysis Run 5/2/2025 12:22 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



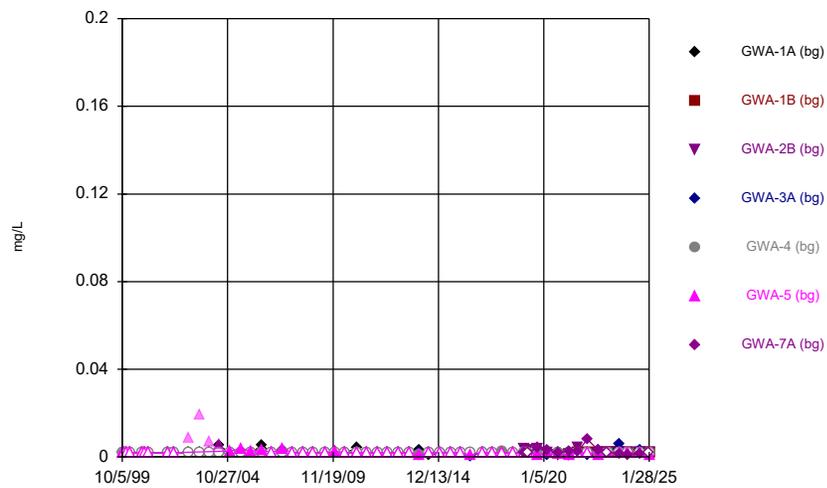
Constituent: Cobalt Analysis Run 5/2/2025 12:22 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



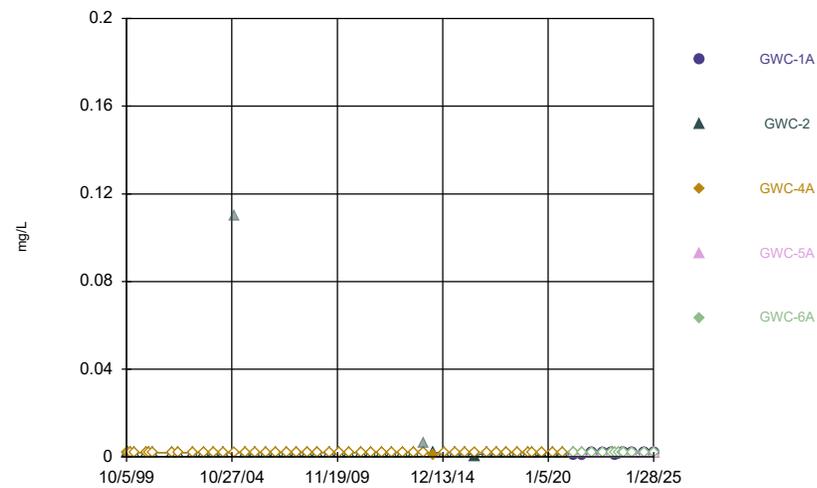
Constituent: Cobalt Analysis Run 5/2/2025 12:22 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



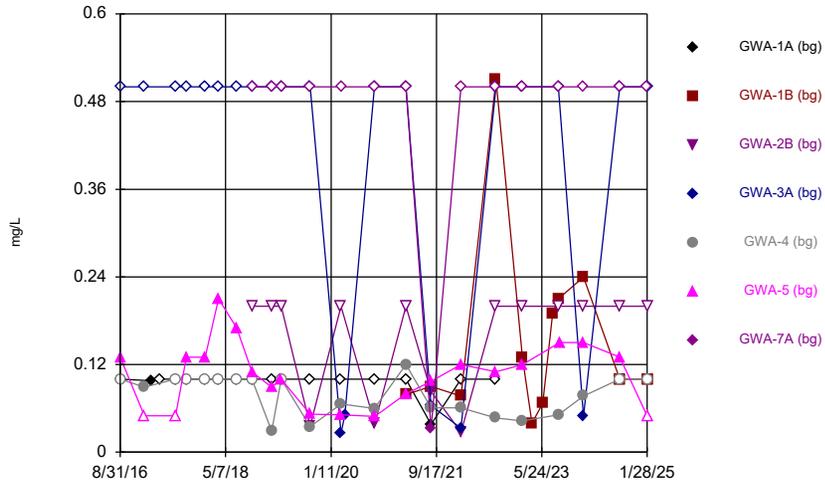
Constituent: Copper Analysis Run 5/2/2025 12:22 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



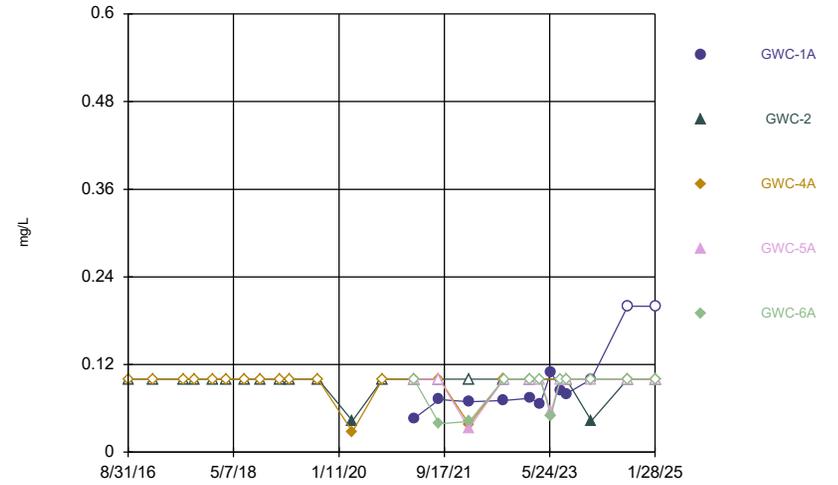
Constituent: Copper Analysis Run 5/2/2025 12:22 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



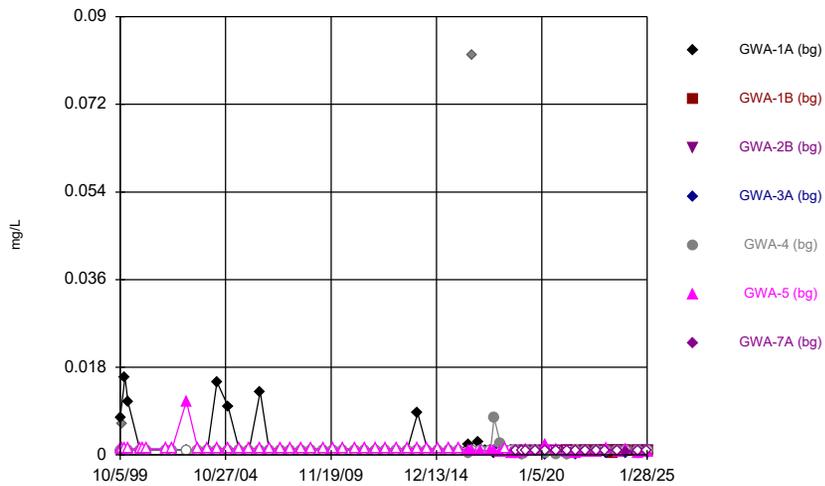
Constituent: Fluoride Analysis Run 5/2/2025 12:22 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



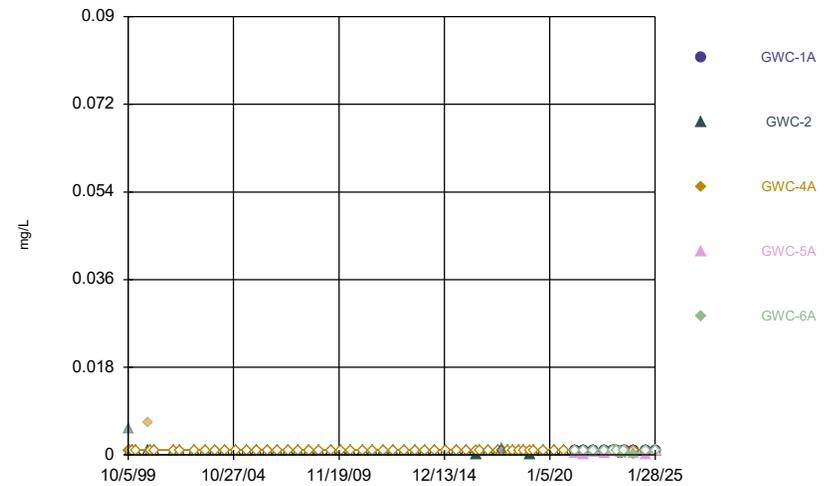
Constituent: Fluoride Analysis Run 5/2/2025 12:22 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



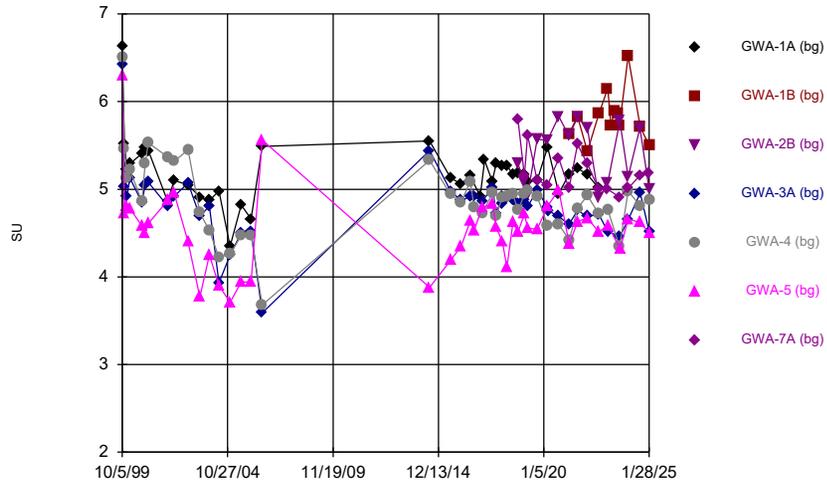
Constituent: Lead Analysis Run 5/2/2025 12:22 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



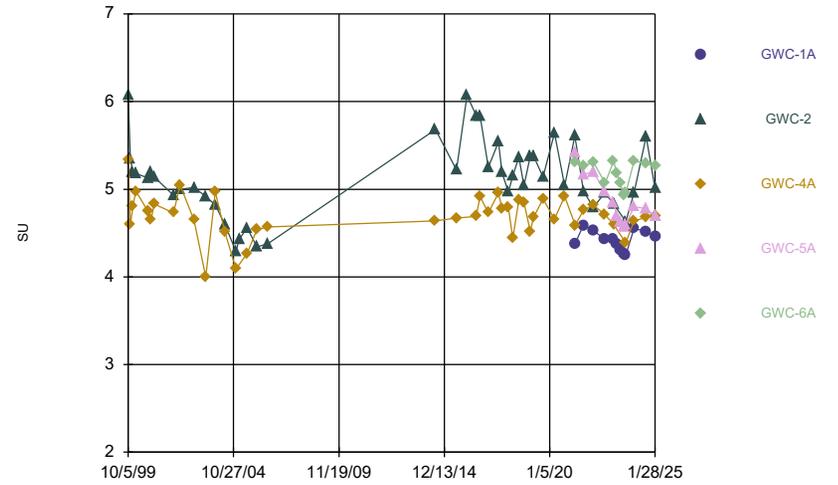
Constituent: Lead Analysis Run 5/2/2025 12:22 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



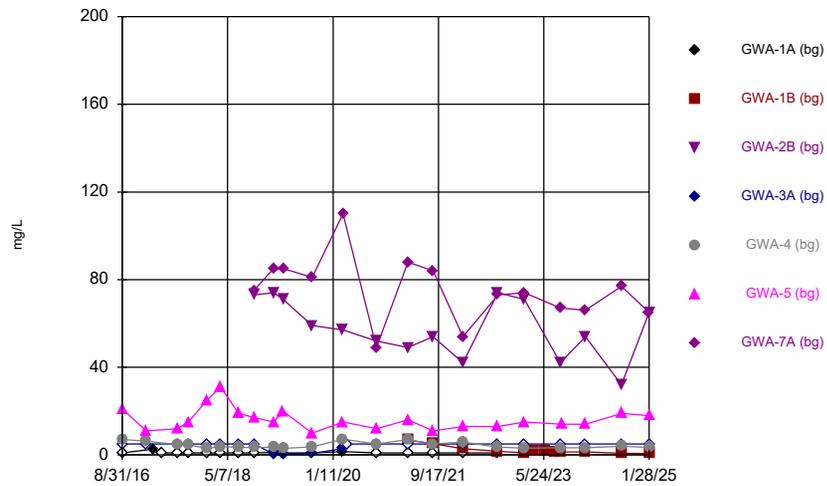
Constituent: pH, Field Analysis Run 5/2/2025 12:22 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



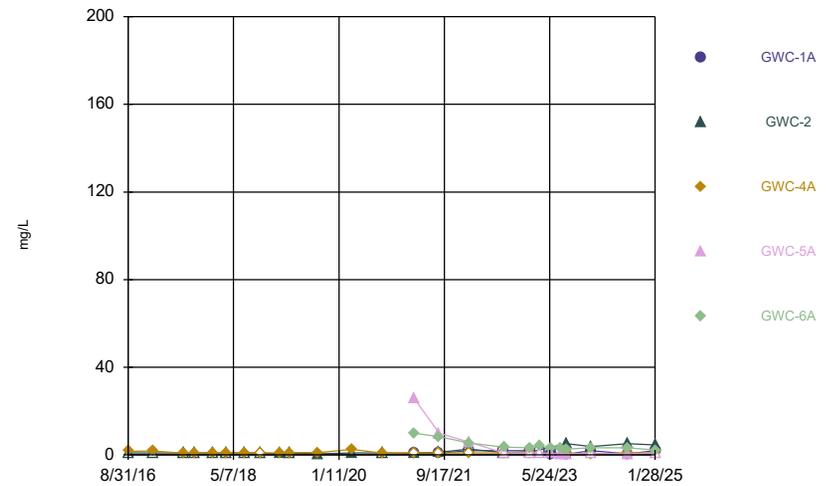
Constituent: pH, Field Analysis Run 5/2/2025 12:22 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



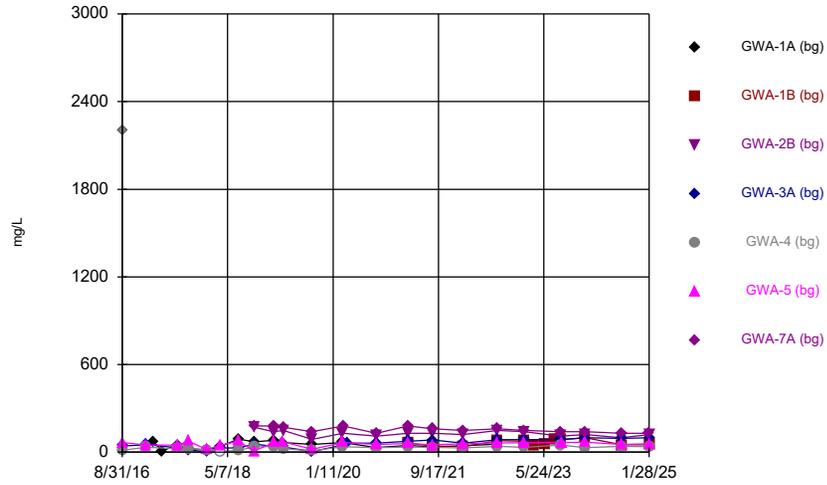
Constituent: Sulfate Analysis Run 5/2/2025 12:22 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



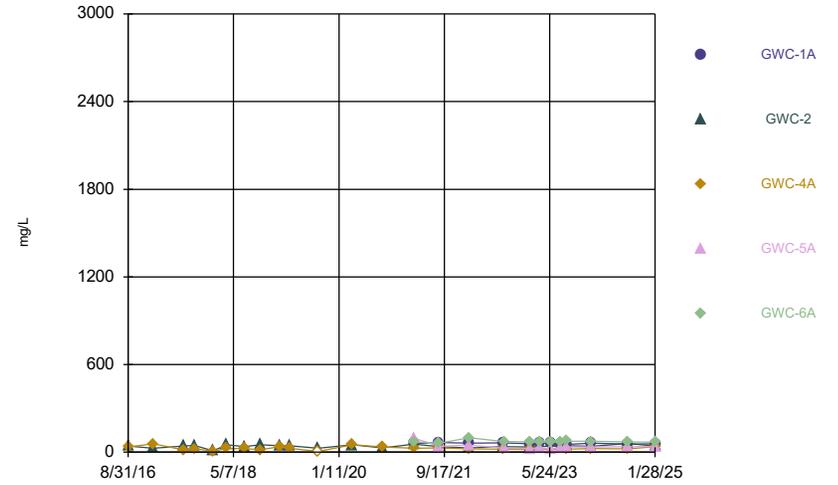
Constituent: Sulfate Analysis Run 5/2/2025 12:22 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



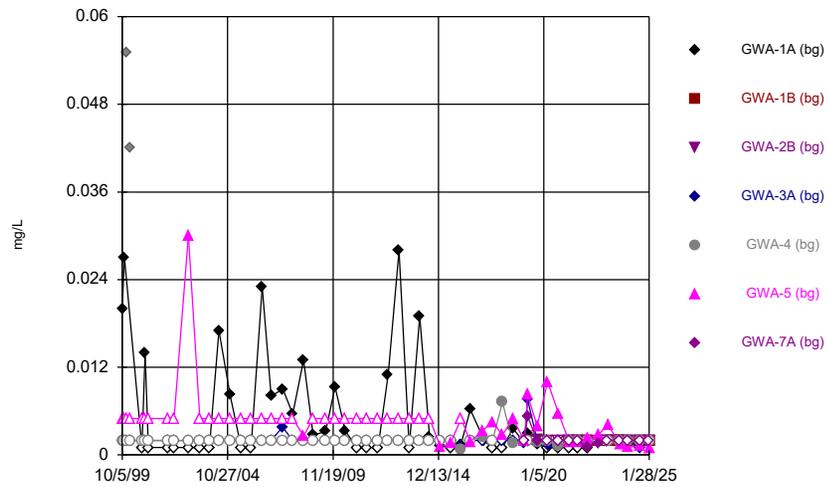
Constituent: TDS Analysis Run 5/2/2025 12:22 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



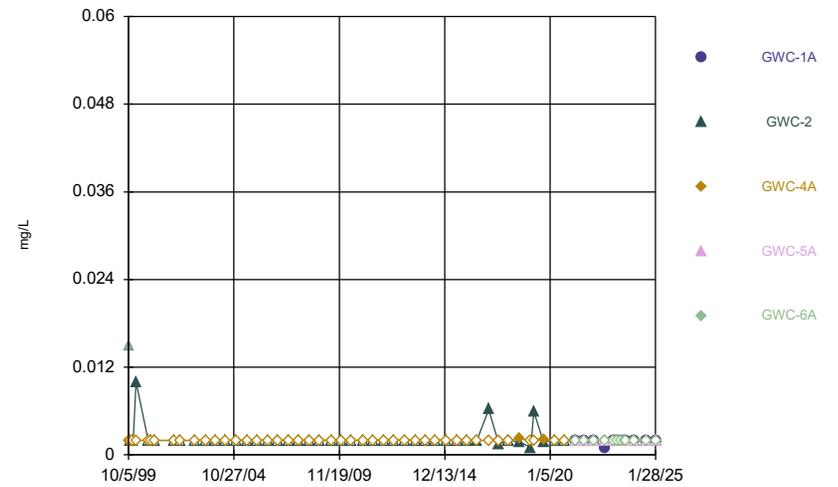
Constituent: TDS Analysis Run 5/2/2025 12:22 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



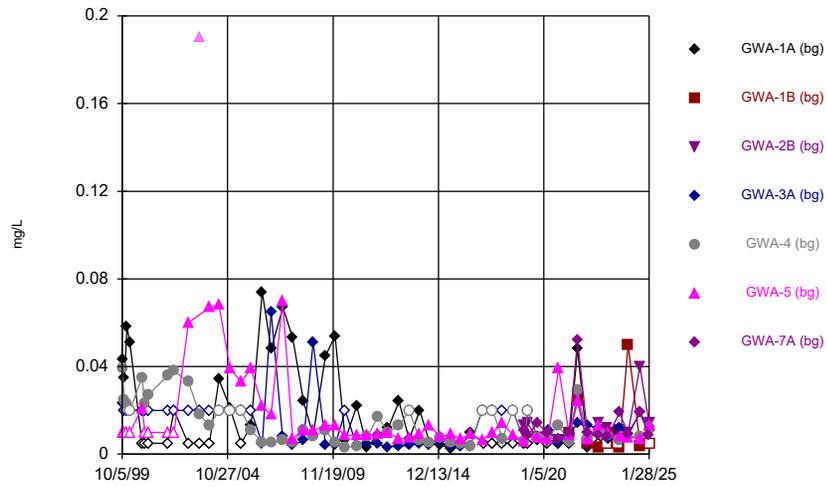
Constituent: Vanadium Analysis Run 5/2/2025 12:22 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



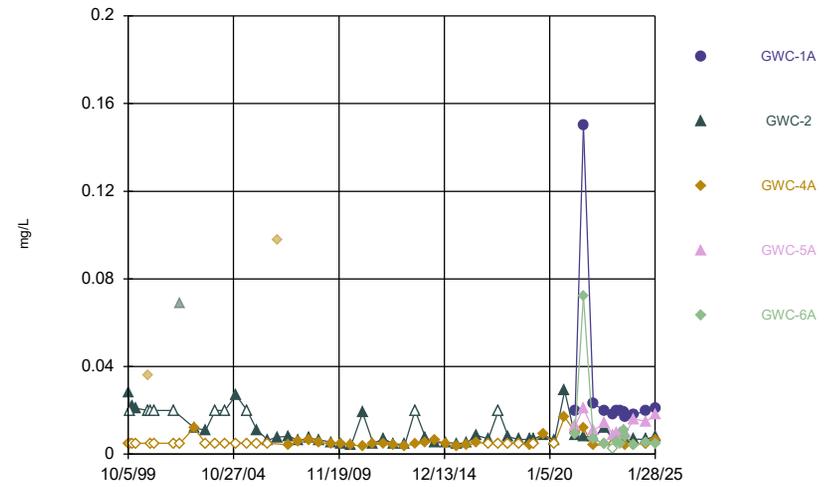
Constituent: Vanadium Analysis Run 5/2/2025 12:22 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



Constituent: Zinc Analysis Run 5/2/2025 12:23 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series



Constituent: Zinc Analysis Run 5/2/2025 12:23 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2025 12:23 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
10/5/1999	0.084			0.031	0.013	0.1	
11/12/1999	0.099			0.023	0.017	0.086	
12/29/1999	0.18			0.033	0.027	0.12	
2/17/2000	0.12			0.026	0.023	0.13	
9/13/2000	0.038			0.044	0.022	0.18	
11/10/2000	0.065			0.044	0.035	0.18	
1/3/2001					0.032	0.23	
1/4/2001	0.037			0.043			
12/10/2001	0.027				0.032	0.12	
12/11/2001				0.041			
4/4/2002	0.027			0.038	0.03	0.094	
12/6/2002	0.028						
12/9/2002				0.044	0.041	0.33	
6/28/2003	0.054			0.045	0.035	0.11	
12/13/2003	0.027			0.039	0.029	0.057	
5/28/2004	0.18						
5/29/2004				0.042	0.033	0.035	
12/11/2004	0.1			0.045	0.037	0.04	
6/24/2005	0.045			0.042	0.034	0.037	
12/13/2005	0.048			0.043	0.03	0.039	
6/26/2006						0.042	
6/27/2006	0.13			0.043	0.03		
12/1/2006	0.14			0.041	0.032	0.044	
6/21/2007				0.043	0.03	0.058	
6/22/2007	0.2						
12/15/2007	0.14			0.045	0.034	0.073	
6/21/2008					0.037		
6/22/2008	0.1			0.05		0.096	
12/6/2008				0.14	0.034	0.094	
12/7/2008	0.043						
7/10/2009				0.046			
7/11/2009	0.13				0.037	0.12	
12/22/2009						0.089	
12/23/2009	0.17			0.049	0.058		
6/23/2010				0.043	0.046	0.081	
6/24/2010	0.045						
1/8/2011				0.047	0.036	0.097	
1/9/2011	0.11						
7/10/2011				0.035	0.031	0.084	
7/11/2011	0.022						
1/19/2012				0.05	0.045		
1/20/2012	0.043					0.099	
7/12/2012				0.042	0.039	0.12	
7/13/2012	0.05						
1/21/2013	0.11			0.048	0.042	0.095	
7/20/2013	0.04			0.047	0.054	0.086	
1/17/2014	0.082			0.049	0.057	0.14	
7/12/2014	0.034			0.043	0.042	0.17	
1/15/2015				0.05	0.041		
1/16/2015	0.029					0.12	
7/15/2015	0.025			0.044	0.04	0.12	
1/16/2016	0.026			0.048	0.04	0.12	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2025 12:23 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
6/22/2016	0.0485			0.0486	0.0453	0.0839	
8/31/2016				0.043	0.041	0.093	
9/1/2016	0.86 (O)						
12/15/2016	0.054						
1/19/2017				0.052	0.052	0.079	
2/28/2017	0.027						
4/19/2017	0.023						
7/17/2017	0.022						
7/18/2017				0.046	0.037		
7/19/2017						0.085	
9/20/2017	0.023			0.053			
9/21/2017					0.042	0.1	
1/8/2018	0.022						
1/9/2018				0.05	0.043	0.13	
3/27/2018	0.023			0.054	0.039	0.18	
7/10/2018	0.024			0.056	0.043	0.14	
10/8/2018	0.03		0.049		0.042	0.11	0.14
10/9/2018				0.061			
1/30/2019	0.024		0.041	0.071	0.04	0.079	0.1
3/27/2019	0.021					0.12	
3/28/2019			0.035	0.068	0.041		0.1
9/11/2019	0.022						
9/12/2019			0.049	0.073	0.044	0.086	0.077
3/10/2020	0.018		0.047	0.082	0.058	0.081	
3/11/2020							0.067
4/2/2020				0.088			
9/21/2020	0.023			0.083	0.052		0.11
9/22/2020			0.049			0.078	
3/23/2021	0.023	0.021	0.044	0.093			0.048
3/24/2021					0.052	0.096	
8/17/2021	0.025	0.022	0.047	0.095	0.056	0.094	0.054
2/7/2022			0.047				0.096
2/8/2022	0.024	0.019		0.1	0.054	0.1	
8/30/2022	0.023	0.022	0.03	0.11	0.046	0.13	0.047
1/31/2023		0.024	0.036				0.043
2/1/2023				0.13	0.05		
2/2/2023						0.13	
3/28/2023		0.018					
5/30/2023		0.019					
7/26/2023		0.026					
8/28/2023		0.023			0.047		0.044
8/29/2023			0.045	0.12			
9/6/2023						0.12	
1/23/2024		0.021	0.037	0.13	0.045	0.12	0.041
8/19/2024			0.063				0.047
8/20/2024		0.018		0.14	0.057	0.11	
1/27/2025							0.044
1/28/2025		0.015	0.054	0.16	0.058	0.13	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2025 12:23 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999		0.097	0.095		
11/12/1999		0.057	0.063		
12/29/1999		0.084	0.066		
2/17/2000		0.079	0.023		
9/14/2000		0.06	0.056		
11/10/2000		0.062	0.059		
1/4/2001		0.064	0.079		
12/11/2001		0.057	0.049		
4/4/2002		0.06	0.048		
12/6/2002			0.1		
12/9/2002		0.072			
6/28/2003		0.066	0.036		
12/13/2003		0.063	0.031		
5/29/2004		0.067	0.038		
12/12/2004		0.075	0.041		
6/25/2005		0.071	0.028		
12/13/2005		0.068	0.025		
6/26/2006		0.058	0.033		
12/2/2006		0.063	0.051		
6/22/2007		0.071	0.052		
12/14/2007		0.068	0.062		
6/21/2008			0.065		
6/22/2008		0.057			
12/6/2008		0.058	0.056		
7/11/2009		0.05	0.059		
12/23/2009		0.05	0.067		
6/23/2010		0.083	0.084		
1/8/2011		0.057	0.053		
7/10/2011		0.046	0.043		
1/20/2012		0.055	0.054		
7/12/2012		0.045	0.053		
1/21/2013		0.045	0.053		
7/20/2013		0.079	0.052		
1/17/2014		0.084	0.063		
7/11/2014			0.068		
7/12/2014		0.065			
1/15/2015		0.067			
1/16/2015			0.059		
7/15/2015		0.049	0.045		
1/17/2016		0.09	0.052		
6/22/2016		0.0806	0.0528		
8/31/2016		0.057	0.037		
1/24/2017		0.06			
1/25/2017			0.034		
7/19/2017		0.06			
7/20/2017			0.028		
9/21/2017		0.063	0.032		
1/9/2018		0.059	0.033		
3/28/2018			0.037		
3/29/2018		0.06			
7/10/2018		0.073	0.065		
10/9/2018		0.057	0.029		

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2025 12:23 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
1/30/2019			0.027		
1/31/2019		0.067			
3/28/2019		0.064	0.028		
9/12/2019		0.06	0.026		
3/31/2020		0.077	0.036		
9/22/2020		0.061	0.031		
3/23/2021		0.083			0.098
3/24/2021	0.29		0.031	0.055	
8/18/2021	0.28	0.062	0.032	0.052	0.09
2/8/2022		0.062		0.052	
2/9/2022	0.27		0.034		0.083
8/30/2022	0.24	0.058	0.035		
8/31/2022				0.057	0.081
1/31/2023	0.27			0.07	0.083
2/1/2023		0.063	0.034		
3/29/2023	0.27			0.071	0.082
5/31/2023	0.29			0.076	0.096
7/26/2023	0.28			0.082	0.086
8/29/2023	0.24	0.065	0.032	0.076	0.079
1/23/2024	0.24	0.057	0.03	0.087	0.079
8/20/2024	0.29	0.097	0.046	0.13	0.088
1/28/2025	0.28	0.074	0.047	0.13	0.086

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2025 12:23 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
10/5/1999	<0.0025			<0.0025	<0.0025	<0.0025	
11/12/1999	<0.0025			<0.0025	<0.0025	<0.0025	
12/29/1999	<0.0025			<0.0025	<0.0025	<0.0025	
2/17/2000	<0.0025			<0.0025	<0.0025	<0.0025	
9/13/2000	<0.0025			<0.0025	<0.0025	<0.0025	
11/10/2000	<0.0025			<0.0025	<0.0025	<0.0025	
1/3/2001					<0.0025	<0.0025	
1/4/2001	<0.0025			<0.0025			
12/10/2001	<0.0025				<0.0025	<0.0025	
12/11/2001				<0.0025			
4/4/2002	<0.0025			<0.0025	<0.0025	<0.0025	
12/6/2002	<0.0025						
12/9/2002				<0.0025	<0.0025	0.0018	
6/28/2003	<0.0025			<0.0025	<0.0025	0.0036	
12/13/2003	<0.0025			<0.0025	<0.0025	0.0019	
5/28/2004	0.0013						
5/29/2004				<0.0025	<0.0025	0.002	
12/11/2004	0.0028			0.0024	0.0023	0.0035	
6/24/2005	<0.0025			<0.0025	<0.0025	<0.0025	
12/13/2005	<0.0025			<0.0025	<0.0025	0.001	
6/26/2006						<0.0025	
6/27/2006	<0.0025			<0.0025	<0.0025		
12/1/2006	<0.0025			<0.0025	<0.0025	<0.0025	
6/21/2007				<0.0025	<0.0025	<0.0025	
6/22/2007	<0.0025						
12/15/2007	<0.0025			<0.0025	<0.0025	<0.0025	
6/21/2008					<0.0025		
6/22/2008	<0.0025			<0.0025		<0.0025	
12/6/2008				<0.0025	<0.0025	<0.0025	
12/7/2008	<0.0025						
7/10/2009				<0.0025			
7/11/2009	<0.0025				<0.0025	<0.0025	
12/22/2009						<0.0025	
12/23/2009	<0.0025			<0.0025	<0.0025		
6/23/2010				<0.0025	<0.0025	<0.0025	
6/24/2010	<0.0025						
1/8/2011				<0.0025	<0.0025	<0.0025	
1/9/2011	<0.0025						
7/10/2011				<0.0025	<0.0025	<0.0025	
7/11/2011	<0.0025						
1/19/2012				<0.0025	<0.0025		
1/20/2012	<0.0025					<0.0025	
7/12/2012				<0.0025	<0.0025	<0.0025	
7/13/2012	<0.0025						
1/21/2013	<0.0025			<0.0025	<0.0025	<0.0025	
7/20/2013	<0.0025			<0.0025	<0.0025	<0.0025	
1/17/2014	0.00074 (J)			0.00035 (J)	0.00021 (J)	0.00049 (J)	
7/12/2014	0.00024 (J)			0.00035 (J)	0.00022 (J)	0.00071 (J)	
1/15/2015				0.00039 (J)	0.0002 (J)		
1/16/2015	0.00022 (J)					0.00043 (J)	
7/15/2015	0.00015 (J)			0.00031 (J)	0.00018 (J)	0.00064 (J)	
1/16/2016	0.00011 (J)			0.00034 (J)	0.00013 (J)	0.00039 (J)	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2025 12:23 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
6/22/2016	0.0003 (J)			0.0004 (J)	0.0001 (J)	0.0002 (J)	
8/31/2016				0.00035 (J)	<0.0025	<0.0025	
9/1/2016	0.0084 (O)						
12/15/2016	0.00048 (J)						
1/19/2017				<0.0025	<0.0025	<0.0025	
2/28/2017	<0.0025						
4/19/2017	<0.0025						
7/17/2017	<0.0025						
7/18/2017				0.00038 (J)	<0.0025		
7/19/2017						<0.0025	
9/20/2017	<0.0025			0.00039 (J)			
9/21/2017					<0.0025	<0.0025	
1/8/2018	<0.0025						
1/9/2018				<0.0025	<0.0025	<0.0025	
3/27/2018	<0.0025			<0.0025	<0.0025	<0.0025	
7/10/2018	<0.0025			0.00038 (J)	<0.0025	<0.0025	
10/8/2018	<0.0025		0.0014 (J)		<0.0025	<0.0025	<0.0025
10/9/2018				0.00044 (J)			
1/30/2019	0.00026 (J)		0.0019 (J)	0.00051 (J)	0.00019 (J)	0.00024 (J)	0.00047 (J)
3/27/2019	<0.0025					<0.0025	
3/28/2019			0.0017 (J)	0.00046 (J)	<0.0025		0.00034 (J)
9/11/2019	0.00019 (J)						
9/12/2019			0.00088 (J)	0.00084 (J)	<0.0025	0.00036 (J)	0.00097 (J)
3/10/2020	0.00018 (J)		0.00087 (J)	0.00058 (J)	0.00029 (J)	0.00028 (J)	
3/11/2020							0.00078 (J)
4/2/2020				0.00062 (J)			
9/21/2020	0.0002 (J)			0.00054 (J)	<0.0025		<0.0025
9/22/2020			0.00042 (J)			<0.0025	
3/23/2021	0.00021 (J)	<0.0025	0.00071 (J)	0.00063 (J)			0.00066 (J)
3/24/2021					0.00019 (J)	0.00026 (J)	
8/17/2021	<0.0025	<0.0025	0.00068 (J)	0.00049 (J)	<0.0025	0.00018 (J)	0.00047 (J)
2/7/2022			0.00071 (J)				<0.0025
2/8/2022	<0.0025	<0.0025		0.00061 (J)	<0.0025	<0.0025	
8/30/2022	0.00035 (J)	<0.0025	0.0019 (J)	0.00083 (J)	0.00028 (J)	<0.0025	0.0007 (J)
1/31/2023		<0.0025	0.0018 (J)				0.00056 (J)
2/1/2023				0.00078 (J)	0.00024 (J)		
2/2/2023						0.0005 (J)	
3/28/2023		<0.0025					
5/30/2023		<0.0025					
7/26/2023		<0.0025					
8/28/2023		<0.0025			0.00024 (J)		0.0005 (J)
8/29/2023			0.00063 (J)	0.00071 (J)			
9/6/2023						0.00041 (J)	
1/23/2024		<0.0025	0.0014 (J)	0.00081 (J)	0.00021 (J)	0.00035 (J)	0.00045 (J)
8/19/2024			0.0009 (J)				0.00048 (J)
8/20/2024		<0.0025		0.00081 (J)	0.00021 (J)	0.00034 (J)	
1/27/2025							0.00051 (J)
1/28/2025		<0.0025	0.0017 (J)	0.0012 (J)	0.00021 (J)	0.00035 (J)	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2025 12:23 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999		<0.0025	<0.0025		
11/12/1999		<0.0025	<0.0025		
12/29/1999		<0.0025	<0.0025		
2/17/2000		<0.0025	<0.0025		
9/14/2000		<0.0025	<0.0025		
11/10/2000		<0.0025	<0.0025		
1/4/2001		<0.0025	<0.0025		
12/11/2001		<0.0025	<0.0025		
4/4/2002		<0.0025	<0.0025		
12/6/2002			<0.0025		
12/9/2002		<0.0025			
6/28/2003		<0.0025	<0.0025		
12/13/2003		<0.0025	<0.0025		
5/29/2004		<0.0025	0.001		
12/12/2004		0.0023	0.0023		
6/25/2005		<0.0025	<0.0025		
12/13/2005		<0.0025	<0.0025		
6/26/2006		<0.0025	<0.0025		
12/2/2006		<0.0025	<0.0025		
6/22/2007		<0.0025	<0.0025		
12/14/2007		<0.0025	<0.0025		
6/21/2008			<0.0025		
6/22/2008		<0.0025			
12/6/2008		<0.0025	<0.0025		
7/11/2009		<0.0025	<0.0025		
12/23/2009		<0.0025	<0.0025		
6/23/2010		<0.0025	<0.0025		
1/8/2011		<0.0025	<0.0025		
7/10/2011		<0.0025	<0.0025		
1/20/2012		<0.0025	<0.0025		
7/12/2012		<0.0025	<0.0025		
1/21/2013		<0.0025	<0.0025		
7/20/2013		<0.0025	<0.0025		
1/17/2014		8.3E-05 (J)	<0.0025		
7/11/2014			9.5E-05 (J)		
7/12/2014		0.0002 (J)			
1/15/2015		0.00019 (J)			
1/16/2015			0.00012 (J)		
7/15/2015		0.00018 (J)	<0.0025		
1/17/2016		0.00011 (J)	<0.0025		
6/22/2016		0.0002 (J)	<0.0025		
8/31/2016		<0.0025	<0.0025		
1/24/2017		<0.0025			
1/25/2017			<0.0025		
7/19/2017		<0.0025			
7/20/2017			<0.0025		
9/21/2017		<0.0025	<0.0025		
1/9/2018		<0.0025	<0.0025		
3/28/2018			<0.0025		
3/29/2018		<0.0025			
7/10/2018		<0.0025	<0.0025		
10/9/2018		<0.0025	<0.0025		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2025 12:23 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
1/30/2019			7E-05 (J)		
1/31/2019		6.5E-05 (J)			
3/28/2019		<0.0025	<0.0025		
9/12/2019		<0.0025	0.00028 (J)		
3/31/2020		<0.0025	<0.0025		
9/22/2020		0.00025 (J)	<0.0025		
3/23/2021		0.00018 (J)			<0.0025
3/24/2021	0.00039 (J)		<0.0025	<0.0025	
8/18/2021	0.00041 (J)	0.0002 (J)	<0.0025	<0.0025	<0.0025
2/8/2022		<0.0025		<0.0025	
2/9/2022	0.0004 (J)		<0.0025		0.00032 (J)
8/30/2022	0.00042 (J)	0.00038 (J)	<0.0025		
8/31/2022				<0.0025	0.00029 (J)
1/31/2023	0.00043 (J)			0.00023 (J)	0.00031 (J)
2/1/2023		0.00024 (J)	<0.0025		
3/29/2023	0.00046 (J)			0.00024 (J)	0.00029 (J)
5/31/2023	0.00039 (J)			0.00024 (J)	0.00032 (J)
7/26/2023	0.00041 (J)			0.00032 (J)	0.00031 (J)
8/29/2023	0.00038 (J)	0.00031 (J)	<0.0025	0.00031 (J)	0.00026 (J)
1/23/2024	0.00041 (J)	0.00027 (J)	<0.0025	0.00033 (J)	0.00024 (J)
8/20/2024	0.0005 (J)	0.00026 (J)	<0.0025	0.00051 (J)	0.00033 (J)
1/28/2025	0.00045 (J)	0.00041 (J)	<0.0025	0.00046 (J)	0.00035 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2025 12:23 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
8/31/2016				<0.08	<0.08	0.073	
9/1/2016	0.029 (J)						
12/15/2016	<0.08						
1/19/2017				<0.08	0.027 (J)	0.036 (J)	
2/28/2017	<0.08						
4/19/2017	<0.08						
7/17/2017	<0.08						
7/18/2017				<0.08	<0.08		
7/19/2017						0.07	
9/20/2017	<0.08			<0.08			
9/21/2017					<0.08	0.07	
1/8/2018	<0.08						
1/9/2018				<0.08	<0.08	0.042 (J)	
3/27/2018	<0.08			<0.08	<0.08	0.037 (J)	
7/10/2018	<0.08			<0.08	<0.08	0.042 (J)	
10/8/2018	<0.08		0.76		<0.08	0.044 (J)	1.3
10/9/2018				<0.08			
1/30/2019	<0.08		0.77	<0.08	<0.08	0.03 (J)	1.5
3/27/2019	<0.08					0.036 (J)	
3/28/2019			0.83	0.024 (J)	<0.08		1.4
9/11/2019	<0.08						
9/12/2019			0.65	<0.08	<0.08	0.048 (J)	1.6
3/10/2020	<0.08		0.64	0.059 (J)	<0.08	0.066 (J)	
3/11/2020							1.9
4/2/2020				0.084			
9/21/2020	0.11			0.11	0.073 (J)		0.61
9/22/2020			0.73			0.097	
3/23/2021	<0.08	0.1	0.57	0.088			1.5
3/24/2021					<0.08	0.048 (J)	
8/17/2021	0.049 (J)	0.11	0.68	0.098	0.045 (J)	0.067 (J)	1.4
2/7/2022			0.54				0.6
2/8/2022	<0.08	0.084		0.077 (J)	<0.08	<0.08	
8/30/2022	<0.08	0.12	0.98	0.1	<0.08	<0.08	1.2
1/31/2023		0.044 (J)	0.99				1.3
2/1/2023				0.087	0.023 (J)		
2/2/2023						0.039 (J)	
3/28/2023		0.072 (J)					
5/30/2023		0.068 (J)					
7/26/2023		0.032 (J)					
8/28/2023		0.035 (J)			<0.08		1.2
8/29/2023			0.53	0.078 (J)			
9/6/2023						0.032 (J)	
1/23/2024		0.029 (J)	0.5	0.073 (J)	0.033 (J)	0.051 (J)	1.2
8/19/2024			0.37				1.2
8/20/2024		0.055 (J)		0.072 (J)	0.023 (J)	0.053 (J)	
1/27/2025							1.1
1/28/2025		0.053 (J)	0.65	0.058 (J)	<0.08	0.047 (J)	

Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2025 12:23 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/31/2016		0.023 (J)	<0.08		
1/24/2017		<0.05			
1/25/2017			0.023 (J)		
7/19/2017		0.026 (J)			
7/20/2017			<0.08		
9/21/2017		0.025 (J)	<0.08		
1/9/2018		0.023 (J)	<0.08		
3/28/2018			<0.08		
3/29/2018		0.035 (J)			
7/10/2018		0.044 (J)	<0.08		
10/9/2018		0.043 (J)	<0.08		
1/30/2019			<0.08		
1/31/2019		0.04 (J)			
3/28/2019		0.062	<0.08		
9/12/2019		0.045 (J)	<0.08		
3/31/2020		0.046 (J)	<0.08		
9/22/2020		0.083	0.053 (J)		
3/23/2021		0.07 (J)			0.043 (J)
3/24/2021	0.36		<0.08	<0.08	
8/18/2021	0.25	0.095	0.043 (J)	<0.08	0.077 (J)
2/8/2022		0.094		<0.08	
2/9/2022	0.13		<0.08		<0.08
8/30/2022	0.099	0.085	<0.08		
8/31/2022				<0.08	<0.08
1/31/2023	0.094			0.033 (J)	0.047 (J)
2/1/2023		0.091	<0.08		
3/29/2023	0.063 (J)			0.024 (J)	0.046 (J)
5/31/2023	0.054 (J)			<0.08	0.036 (J)
7/26/2023	0.054 (J)			<0.08	0.039 (J)
8/29/2023	0.042 (J)	0.1	<0.08	<0.08	0.033 (J)
1/23/2024	0.06 (J)	0.092	<0.08	<0.08	0.047 (J)
8/20/2024	0.24	0.11	<0.08	<0.08	0.034 (J)
1/28/2025	0.62	0.11	0.023 (J)	<0.08	0.032 (J)

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2025 12:24 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
8/31/2016				1.5	0.88	3.7	
9/1/2016	26 (O)						
12/15/2016	2						
1/19/2017				1.8	1.1	2	
2/28/2017	2.7						
4/19/2017	1.7						
7/17/2017	1.7						
7/18/2017				1.7	0.86		
7/19/2017						2.6	
9/20/2017	1.5			1.7			
9/21/2017					0.9	2.7	
1/8/2018	1.7						
1/9/2018				1.9	1	4.1	
3/27/2018	1.7			1.9	0.89	4.8	
7/10/2018	1.7			1.9	0.99	3.7	
10/8/2018	1.6		17		1.1	3.2	17
10/9/2018				2.2			
1/30/2019	1.9		16	2.4	1	1.7	15
3/27/2019	1.6					3.1	
3/28/2019			16	2.4	0.98		18
9/11/2019	1.6						
9/12/2019			15	2.3	0.84	1.9	19
3/10/2020	2		14	2.8	1.1	2.9	
3/11/2020							20
4/2/2020				3			
9/21/2020	1.8			3.1	1.4		13
9/22/2020			16			2.9	
3/23/2021	1.8	4	15	3.6			19
3/24/2021					1.3	3.1	
8/17/2021	1.8	3.9	15	3.5	1.4	2.9	17
2/7/2022			12				11
2/8/2022	1.7	2.7		3.3	1.3	2.8	
8/30/2022	1.8	5.2	15	3.9	1.2	3.4	14
1/31/2023		6.8	16				15
2/1/2023				4.6	1.4		
2/2/2023						3.7	
3/28/2023		3					
5/30/2023		3.3					
7/26/2023		7.5					
8/28/2023		8.6			1.3		14
8/29/2023			13	4.7			
9/6/2023						3.7	
1/23/2024		8.3	12	4.6	1.2	3.2	12
8/19/2024			11				13
8/20/2024		2.7		5	1.4	2.8	
1/27/2025							12
1/28/2025		2.5	14	5.4	1.5	3.5	

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/31/2016		5.5	0.42		
1/24/2017		2.9			
1/25/2017			0.37		
7/19/2017		4.2			
7/20/2017			0.29		
9/21/2017		2.9	0.3		
1/9/2018		1.7	0.38		
3/28/2018			0.44		
3/29/2018		2.2			
7/10/2018		3.9	2 (O)		
10/9/2018		1.7	0.34		
1/30/2019			0.34		
1/31/2019		4.8			
3/28/2019		4.9	0.3		
9/12/2019		2	0.3 (J)		
3/31/2020		8.3	0.48 (J)		
9/22/2020		2.1	0.51		
3/23/2021		9.2			5
3/24/2021	3.3		0.46 (J)	6.1	
8/18/2021	2.9	1.7	0.37 (J)	2.7	3.8
2/8/2022		1.3		2.1	
2/9/2022	2.5		0.39 (J)		3.2
8/30/2022	2.3	1.4	0.39 (J)		
8/31/2022				0.98	3.2
1/31/2023	2.6			1	3.1
2/1/2023		1.3	0.34 (J)		
3/29/2023	2.6			0.83	3
5/31/2023	2.8			1.1	3.8
7/26/2023	2.7			1.2	3.3
8/29/2023	2.5	1.6	0.37 (J)	1.1	3.2
1/23/2024	2.3	1.4	0.3 (J)	0.96	3
8/20/2024	2.6	10	0.36 (J)	1.6	3.2
1/28/2025	2.7	3	0.53	1.7	3.2

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2025 12:24 PM

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
8/31/2016				6.8	3.7	7.1	
9/1/2016	8						
1/19/2017				6.9	4.6	3.3	
2/28/2017	8.5						
4/19/2017	7.8						
7/17/2017	7.8						
7/18/2017				7.4	4.2		
7/19/2017						5.8	
9/20/2017	8			7.6			
9/21/2017					4.4	6.2	
1/8/2018	7.9						
1/9/2018				8.6	4.4	9.9	
3/27/2018	8			9.4	4.9	13	
7/10/2018	7.8			11	5.5	17	
10/8/2018	8.5		7.3		6.6	16	6.8
10/9/2018				14			
1/30/2019	8.2		7.3	15	6.9	6.5	7.1
3/27/2019	8.1					9.1	
3/28/2019			6.1	15	5.7		6.1
9/11/2019	7.1						
9/12/2019			7.6	16	6.1	9.1	6.8
3/10/2020	8.1		8	19	5	3.7	
3/11/2020							6.9
4/2/2020				20			
9/21/2020	8.1			19	5.4		6.5
9/22/2020			8			6.3	
3/23/2021	8.6	9.9	7.8	22			7.6
3/24/2021					6.2	7.4	
8/17/2021	9.1	10	7.7	23	6.1	11	8.3
2/7/2022			6.7				7.6
2/8/2022	8.6	9.5		23	6.4	12	
8/30/2022	8.5	7.7	5.9	26	4.7	15	7.5
1/31/2023		8	6.7				7.9
2/1/2023				30	4.5		
2/2/2023						15	
3/28/2023		10					
5/30/2023		9.1					
7/26/2023		7.3					
8/28/2023		6.8			4.6		7.1
8/29/2023			7.9	29			
9/6/2023						14	
1/23/2024		6.3	9.6	33	5.1	16	7.2
8/19/2024			11				8.1
8/20/2024		9.2		33	7.9	6.9	
1/27/2025							7
1/28/2025		9.4	9.8	34	8.5	12	

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/31/2016		5.6	19		
1/24/2017		5.4			
1/25/2017			15		
7/19/2017		5.6			
7/20/2017			14		
9/21/2017		5.5	14		
1/9/2018		5.6	15		
3/28/2018			14		
3/29/2018		5.3			
7/10/2018		5.2	13		
10/9/2018		5.4	13		
1/30/2019			12		
1/31/2019		5.2			
3/28/2019		4.6	11		
9/12/2019		5.2	9.9		
3/31/2020		5.7	14		
9/22/2020		5.4	11		
3/23/2021		5.2			11
3/24/2021	15		10	15	
8/18/2021	16	5.7	7.3	7.8	12
2/8/2022		5		5.9	
2/9/2022	15		5.3		9.5
8/30/2022	14	4.8	4.8		
8/31/2022				4.5	9.6
1/31/2023	14			4.5	9.7
2/1/2023		4.8	4.3		
3/29/2023	14			5	11
5/31/2023	13			4.8	9.4
7/26/2023	14			5.4	10
8/29/2023	13	4.8	4.1	5.2	9.5
1/23/2024	14	5	4.3	6.4	10
8/20/2024	15	5	4.9	10	11
1/28/2025	16	5	14	11	11

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2025 12:24 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
10/5/1999	0.023			<0.002	<0.002	<0.002	
11/12/1999	0.03			<0.002	<0.002	<0.002	
12/29/1999	0.059 (O)			<0.002	<0.002	<0.002	
2/17/2000	0.048 (O)			<0.002	<0.002	<0.002	
9/13/2000	<0.002			<0.002	<0.002	<0.002	
11/10/2000	0.018			<0.002	<0.002	<0.002	
1/3/2001					<0.002	<0.002	
1/4/2001	<0.002			<0.002			
12/10/2001	<0.002				<0.002	<0.002	
12/11/2001				<0.002			
4/4/2002	<0.002			<0.002	<0.002	<0.002	
12/6/2002	0.0046						
12/9/2002				<0.002	0.0037	0.027	
6/28/2003	0.0082			0.0053	0.0039	0.0051	
12/13/2003	<0.002			<0.002	<0.002	<0.002	
5/28/2004	0.016						
5/29/2004				0.0027	<0.002	0.0031	
12/11/2004	0.0087			0.004	<0.002	0.0067	
6/24/2005	0.0069			0.0031	<0.002	<0.002	
12/13/2005	0.0075			0.0031	<0.002	<0.002	
6/26/2006						<0.002	
6/27/2006	0.027			0.0025	0.0023		
12/1/2006	0.012			0.0034	0.0017	<0.002	
6/21/2007				0.0053	0.0027	0.0021	
6/22/2007	0.012						
12/15/2007	0.0085			0.0044	0.0026	0.0022	
6/21/2008					0.0021		
6/22/2008	0.021			0.0059		0.0019	
12/6/2008				0.0031	<0.002	<0.002	
12/7/2008	0.01						
7/10/2009				0.0029			
7/11/2009	0.0073				<0.002	<0.002	
12/22/2009						0.0032	
12/23/2009	0.013			0.0025	<0.002		
6/23/2010				0.0013	<0.002	<0.002	
6/24/2010	0.0076						
1/8/2011				0.0017	<0.002	0.0019	
1/9/2011	0.023						
7/10/2011				<0.002	<0.002	<0.002	
7/11/2011	0.0042						
1/19/2012				<0.002	<0.002		
1/20/2012	0.009					<0.002	
7/12/2012				<0.002	<0.002	0.0044	
7/13/2012	0.013						
1/21/2013	0.032			0.0014	<0.002	<0.002	
7/20/2013	0.01			0.0021	<0.002	0.0017	
1/17/2014	0.024			0.0023	<0.002	0.0012 (J)	
7/12/2014	0.0069			0.0012 (J)	<0.002	0.0014	
1/15/2015				<0.002	<0.002		
1/16/2015	0.0064					0.0011 (J)	
7/15/2015	0.0051			<0.002	<0.002	0.0016	
1/16/2016	0.0066			0.0025	<0.002	<0.002	

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2025 12:24 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
6/22/2016	0.0117			0.0037 (J)	0.0005 (J)	0.002 (J)	
8/31/2016				0.0042	<0.002	0.002 (J)	
9/1/2016	0.12 (O)						
12/15/2016	0.01						
1/19/2017				0.0039	<0.002	0.002 (J)	
2/28/2017	0.0012 (J)						
4/19/2017	0.0016 (J)						
7/17/2017	0.003						
7/18/2017				0.0018 (J)	<0.002		
7/19/2017						0.0017 (J)	
9/20/2017	0.0025			0.0026			
9/21/2017					<0.002	0.0021 (J)	
1/8/2018	0.0038						
1/9/2018				0.0038	0.0087	0.0019 (J)	
3/27/2018	0.0044			0.0037	<0.002	<0.002	
7/10/2018	0.0045			0.0022 (J)	<0.002	0.0012 (J)	
10/8/2018	0.0054		<0.002		<0.002	0.0015 (J)	<0.002
10/9/2018				0.0047			
1/30/2019	0.0061		0.003	0.005	0.00088 (J)	0.0014 (J)	<0.002
3/27/2019	0.0044					<0.002	
3/28/2019			0.0017 (J)	0.0037	<0.002		<0.002
9/11/2019	0.0076						
9/12/2019			<0.002	<0.002	<0.002	0.0032	<0.002
3/10/2020	0.0041		<0.002	<0.002	<0.002	0.0031	
3/11/2020							<0.002
4/2/2020				0.0031			
9/21/2020	0.0049			<0.002	<0.002		<0.002
9/22/2020			<0.002			0.0017 (J)	
3/23/2021	0.0047	<0.002	<0.002	0.0022			<0.002
3/24/2021					<0.002	<0.002	
8/17/2021	0.0046	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2/7/2022			<0.002				<0.002
2/8/2022	0.0051	<0.002		<0.002	<0.002	0.003	
8/30/2022	0.0047	<0.002	0.0028	0.0084	<0.002	<0.002	<0.002
1/31/2023		<0.002	0.0022				<0.002
2/1/2023				0.0016 (J)	0.0016 (J)		
2/2/2023						0.0023	
3/28/2023		<0.002					
5/30/2023		<0.002					
7/26/2023		<0.002					
8/28/2023		<0.002			<0.002		0.0016 (J)
8/29/2023			<0.002	<0.002			
9/6/2023						0.0016 (J)	
1/23/2024		<0.002	0.0015 (J)	0.0016 (J)	<0.002	<0.002	<0.002
8/19/2024			<0.002				<0.002
8/20/2024		<0.002		<0.002	<0.002	0.0012 (J)	
1/27/2025							<0.002
1/28/2025		<0.002	0.003	0.0017 (J)	<0.002	0.0019 (J)	

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999		0.017	<0.002		
11/12/1999		<0.005	<0.002		
12/29/1999		0.011	<0.002		
2/17/2000		0.013	<0.002		
9/14/2000		<0.005	<0.002		
11/10/2000		<0.005	<0.002		
1/4/2001		<0.005	<0.002		
12/11/2001		<0.005	<0.002		
4/4/2002		<0.005	<0.002		
12/6/2002			<0.002		
12/9/2002		<0.005			
6/28/2003		0.0027	0.061 (O)		
12/13/2003		<0.005	<0.002		
5/29/2004		<0.005	<0.002		
12/12/2004		0.74 (O)	0.0059 (O)		
6/25/2005		0.0023	<0.002		
12/13/2005		0.0031	<0.002		
6/26/2006		0.0016	<0.002		
12/2/2006		0.0022	<0.002		
6/22/2007		0.002	<0.002		
12/14/2007		0.0029	<0.002		
6/21/2008			<0.002		
6/22/2008		0.0023			
12/6/2008		0.0023	<0.002		
7/11/2009		0.0015	<0.002		
12/23/2009		0.0014	<0.002		
6/23/2010		0.0018	<0.002		
1/8/2011		0.0033	<0.002		
7/10/2011		0.0028	<0.002		
1/20/2012		<0.005	<0.002		
7/12/2012		0.0025	<0.002		
1/21/2013		0.0022	<0.002		
7/20/2013		0.0075	<0.002		
1/17/2014		0.0039	<0.002		
7/11/2014			<0.002		
7/12/2014		0.0031			
1/15/2015		0.0026			
1/16/2015			<0.002		
7/15/2015		0.0032	<0.002		
1/17/2016		0.0029	<0.002		
6/22/2016		0.0036 (J)	<0.002		
8/31/2016		0.0027	<0.002		
1/24/2017		0.0034			
1/25/2017			<0.002		
7/19/2017		0.0028			
7/20/2017			<0.002		
9/21/2017		0.0035	<0.002		
1/9/2018		0.003	<0.002		
3/28/2018			0.0019 (J)		
3/29/2018		0.0032			
7/10/2018		0.0033	0.0029		
10/9/2018		0.0039	<0.002		

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
1/30/2019			<0.002		
1/31/2019		0.0061			
3/28/2019		0.0049	<0.002		
9/12/2019		0.0048	0.0028		
12/17/2019		0.0064			
3/31/2020		0.005	<0.002		
9/22/2020		0.0036	<0.002		
3/23/2021		0.0048			<0.002
3/24/2021	<0.002		<0.002	<0.002	
8/18/2021	<0.002	0.0064	<0.002	<0.002	<0.002
2/8/2022		0.0046		<0.002	
2/9/2022	<0.002		<0.002		<0.002
8/30/2022	<0.002	0.005	<0.002		
8/31/2022				0.0021	<0.002
1/31/2023	<0.002			<0.002	<0.002
2/1/2023		0.0037	<0.002		
3/29/2023	0.0016 (J)			<0.002	0.0014 (J)
5/31/2023	0.0012 (J)			<0.002	0.0021
7/26/2023	<0.002			<0.002	<0.002
8/29/2023	<0.002	0.0037	<0.002	<0.002	0.0013 (J)
1/23/2024	<0.002	0.0017 (J)	<0.002	<0.002	<0.002
8/20/2024	<0.002	0.0027	<0.002	<0.002	0.0013 (J)
1/28/2025	0.0028	0.0019 (J)	<0.002	<0.002	0.002

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2025 12:24 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
10/5/1999	<0.0025			<0.0013	<0.0013	<0.0013	
11/12/1999	<0.0025			<0.0013	<0.0013	<0.0013	
12/29/1999	<0.0025			<0.0013	<0.0013	<0.0013	
2/17/2000	<0.0025			<0.0013	<0.0013	<0.0013	
9/13/2000	<0.0025			<0.0013	<0.0013	<0.0013	
11/10/2000	<0.0025			<0.0013	<0.0013	<0.0013	
1/3/2001					<0.0013	<0.0013	
1/4/2001	<0.0025			<0.0013			
12/10/2001	<0.0025				<0.0013	<0.0013	
12/11/2001				<0.0013			
4/4/2002	<0.0025			<0.0013	<0.0013	<0.0013	
12/6/2002	<0.0025						
12/9/2002				<0.0013	<0.0013	0.01 (O)	
6/28/2003	<0.0025			<0.0013	<0.0013	0.018 (O)	
12/13/2003	<0.0025			<0.0013	<0.0013	0.01 (O)	
5/28/2004	<0.0025						
5/29/2004				<0.0013	<0.0013	0.01 (O)	
12/11/2004	<0.0025			<0.0013	<0.0013	0.007	
6/24/2005	<0.0025			<0.0013	<0.0013	0.0072	
12/13/2005	<0.0025			<0.0013	<0.0013	0.0062	
6/26/2006						0.0048	
6/27/2006	0.0032			<0.0013	<0.0013		
12/1/2006	<0.0025			<0.0013	<0.0013	0.0032	
6/21/2007				<0.0013	<0.0013	0.0037	
6/22/2007	<0.0025						
12/15/2007	<0.0025			<0.0013	<0.0013	<0.0013	
6/21/2008					<0.0013		
6/22/2008	0.0031			<0.0013		0.0025	
12/6/2008				<0.0013	<0.0013	0.0025	
12/7/2008	<0.0025						
7/10/2009				<0.0013			
7/11/2009	<0.0025				<0.0013	<0.0013	
12/22/2009						0.0025	
12/23/2009	<0.0025			<0.0013	<0.0013		
6/23/2010				<0.0013	<0.0013	<0.0013	
6/24/2010	<0.0025						
1/8/2011				<0.0013	<0.0013	0.0026	
1/9/2011	0.0031						
7/10/2011				<0.0013	<0.0013	<0.0013	
7/11/2011	<0.0025						
1/19/2012				<0.0013	<0.0013		
1/20/2012	<0.0025					<0.0013	
7/12/2012				<0.0013	<0.0013	0.002	
7/13/2012	0.0015						
1/21/2013	0.0035			<0.0013	<0.0013	0.0014	
7/20/2013	<0.0025			<0.0013	<0.0013	<0.0013	
1/17/2014	0.0027			0.001 (J)	0.00071 (J)	0.0019	
7/12/2014	0.00075 (J)			0.00088 (J)	0.00075 (J)	0.0026	
1/15/2015				0.00086 (J)	0.00084 (J)		
1/16/2015	<0.0025					0.0021	
7/15/2015	<0.0025			0.00087 (J)	0.00083 (J)	0.0023	
1/16/2016	0.00059 (J)			0.0011 (J)	0.00092 (J)	0.002	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2025 12:24 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
6/22/2016	0.0012 (J)			0.0009 (J)	0.0005 (J)	0.0007 (J)	
8/31/2016				0.00095 (J)	0.00055 (J)	0.001 (J)	
9/1/2016	0.023 (O)						
12/15/2016	0.0011 (J)						
1/19/2017				0.00087 (J)	0.00041 (J)	0.00046 (J)	
2/28/2017	0.00048 (J)						
4/19/2017	<0.0025						
7/17/2017	<0.0025						
7/18/2017				0.001 (J)	0.0007 (J)		
7/19/2017						0.00069 (J)	
9/20/2017	<0.0025			0.0011 (J)			
9/21/2017					0.00073 (J)	0.00073 (J)	
1/8/2018	<0.0025						
1/9/2018				0.0011 (J)	0.0012 (J)	0.0014 (J)	
3/27/2018	<0.0025			0.0011 (J)	0.00081 (J)	0.0019 (J)	
7/10/2018	<0.0025			0.0012 (J)	0.00086 (J)	0.0015 (J)	
10/8/2018	<0.0025		0.0051		0.00092 (J)	0.0013 (J)	0.0055
10/9/2018				0.0014 (J)			
1/30/2019	0.00038 (J)		0.0044	0.0014 (J)	0.00092 (J)	0.00076 (J)	0.0047
3/27/2019	<0.0025					0.0012 (J)	
3/28/2019			0.0046	0.0014 (J)	0.00089 (J)		0.0045
9/11/2019	0.00032 (J)						
9/12/2019			0.0023	0.0015	0.00091	0.00074	0.0043
3/10/2020	0.00028 (J)		0.003	0.0019	0.0009	0.00099	
3/11/2020							0.0056
4/2/2020				0.0017 (J)			
9/21/2020	0.0003 (J)			0.0016 (J)	0.00059 (J)		0.0025
9/22/2020			<0.0025			0.00064 (J)	
3/23/2021	0.00028 (J)	0.00019 (J)	0.00096 (J)	0.0017 (J)			0.003
3/24/2021					0.00069 (J)	0.00077 (J)	
8/17/2021	0.00032 (J)	0.00025 (J)	0.00016 (J)	0.002 (J)	0.00096 (J)	0.00085 (J)	0.0026
2/7/2022			0.00073 (J)				0.0024 (J)
2/8/2022	0.00029 (J)	0.00032 (J)		0.0019 (J)	0.00096 (J)	0.001 (J)	
8/30/2022	0.00031 (J)	0.00029 (J)	0.004	0.0023 (J)	0.00097 (J)	0.0016 (J)	0.0024 (J)
1/31/2023		0.00028 (J)	0.0041				0.0023 (J)
2/1/2023				0.0027	0.0012 (J)		
2/2/2023						0.0017 (J)	
3/28/2023		0.00032 (J)					
5/30/2023		0.00028 (J)					
7/26/2023		<0.0025					
8/28/2023		<0.0025			0.001 (J)		0.0019 (J)
8/29/2023			0.0029	0.0026			
9/6/2023						0.0017 (J)	
1/23/2024		<0.0025	0.0033	0.003	0.001 (J)	0.0018 (J)	0.0018 (J)
8/19/2024			0.0032				0.0018 (J)
8/20/2024		0.00028 (J)		0.0029	0.0012 (J)	0.0012 (J)	
1/27/2025							0.0017 (J)
1/28/2025		0.00029 (J)	0.0035	0.0031	0.0011 (J)	0.0015 (J)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2025 12:24 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999		<0.0013	<0.0025		
11/12/1999		<0.0013	<0.0025		
12/29/1999		<0.0013	<0.0025		
2/17/2000		<0.0013	<0.0025		
9/14/2000		<0.0013	<0.0025		
11/10/2000		<0.0013	<0.0025		
1/4/2001		<0.0013	<0.0025		
12/11/2001		<0.0013	<0.0025		
4/4/2002		<0.0013	<0.0025		
12/6/2002			<0.0025		
12/9/2002		<0.0013			
6/28/2003		<0.0013	<0.0025		
12/13/2003		<0.0013	<0.0025		
5/29/2004		<0.0013	<0.0025		
12/12/2004		0.0062	<0.0025		
6/25/2005		<0.0013	<0.0025		
12/13/2005		<0.0013	<0.0025		
6/26/2006		<0.0013	<0.0025		
12/2/2006		<0.0013	<0.0025		
6/22/2007		<0.0013	<0.0025		
12/14/2007		<0.0013	<0.0025		
6/21/2008			0.0025		
6/22/2008		<0.0013			
12/6/2008		<0.0013	<0.0025		
7/11/2009		<0.0013	<0.0025		
12/23/2009		<0.0013	<0.0025		
6/23/2010		<0.0013	<0.0025		
1/8/2011		<0.0013	<0.0025		
7/10/2011		<0.0013	<0.0025		
1/20/2012		<0.0013	<0.0025		
7/12/2012		<0.0013	<0.0025		
1/21/2013		<0.0013	<0.0025		
7/20/2013		<0.0013	<0.0025		
1/17/2014		<0.0013	0.0008 (J)		
7/11/2014			0.00076 (J)		
7/12/2014		0.00071 (J)			
1/15/2015		0.00096 (J)			
1/16/2015			0.00071 (J)		
7/15/2015		0.0006 (J)	0.00064 (J)		
1/17/2016		0.00069 (J)	0.00066 (J)		
6/22/2016		0.0011 (J)	0.0009 (J)		
8/31/2016		0.0006 (J)	0.0006 (J)		
1/24/2017		0.00067 (J)			
1/25/2017			0.00047 (J)		
7/19/2017		0.00079 (J)			
7/20/2017			<0.0025		
9/21/2017		0.00077 (J)	<0.0025		
1/9/2018		0.00092 (J)	0.00048 (J)		
3/28/2018			0.00048 (J)		
3/29/2018		0.0008 (J)			
7/10/2018		0.00097 (J)	0.00084 (J)		
10/9/2018		0.00094 (J)	0.00042 (J)		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
1/30/2019			0.00038 (J)		
1/31/2019		0.00092 (J)			
3/28/2019		0.00072 (J)	<0.0025		
9/12/2019		0.0009	0.00044 (J)		
3/31/2020		0.00061 (J)	0.00033 (J)		
9/22/2020		0.00092 (J)	0.00042 (J)		
3/23/2021		0.00069 (J)			0.0034
3/24/2021	0.0063		0.00037 (J)	0.0023 (J)	
8/18/2021	0.0053	0.0011 (J)	0.00034 (J)	0.0021 (J)	0.0016 (J)
2/8/2022		0.0013 (J)		0.002 (J)	
2/9/2022	0.0044		0.00042 (J)		0.0012 (J)
8/30/2022	0.0044	0.0012 (J)	0.00048 (J)		
8/31/2022				0.0018 (J)	0.0012 (J)
1/31/2023	0.0046			0.0021 (J)	0.0011 (J)
2/1/2023		0.0013 (J)	0.00047 (J)		
3/29/2023	0.0051			0.0021 (J)	0.001 (J)
5/31/2023	0.005			0.0021 (J)	0.0011 (J)
7/26/2023	0.0054			0.0026	0.0011 (J)
8/29/2023	0.0047	0.0014 (J)	0.00045 (J)	0.0023 (J)	0.00099 (J)
1/23/2024	0.0042	0.0014 (J)	0.0004 (J)	0.0027	0.00095 (J)
8/20/2024	0.0048	0.0015 (J)	0.00048 (J)	0.0037	0.001 (J)
1/28/2025	0.0047	0.0017 (J)	0.00061 (J)	0.0036	0.00095 (J)

Time Series

Constituent: Copper (mg/L) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
10/5/1999	<0.002			<0.002	<0.002	<0.002	
11/12/1999	<0.002			<0.002	<0.002	<0.002	
12/29/1999	<0.002			<0.002	<0.002	<0.002	
2/17/2000	<0.002			<0.002	<0.002	<0.002	
9/13/2000	<0.002			<0.002	<0.002	<0.002	
11/10/2000	<0.002			<0.002	<0.002	<0.002	
1/3/2001					<0.002	<0.002	
1/4/2001	<0.002			<0.002			
12/10/2001	<0.002				<0.002	<0.002	
12/11/2001				<0.002			
4/4/2002	<0.002			<0.002	<0.002	<0.002	
12/6/2002	<0.002						
12/9/2002				<0.002	<0.002	0.0089 (O)	
6/28/2003	<0.002			<0.002	<0.002	0.019 (O)	
12/13/2003	<0.002			<0.002	<0.002	0.0067 (O)	
5/28/2004	0.0052						
5/29/2004				<0.002	<0.002	0.0057 (O)	
12/11/2004	<0.002			<0.002	<0.002	0.0027	
6/24/2005	<0.002			<0.002	<0.002	0.0038	
12/13/2005	<0.002			<0.002	<0.002	0.0025	
6/26/2006						0.0033	
6/27/2006	0.0055			<0.002	<0.002		
12/1/2006	<0.002			<0.002	<0.002	<0.002	
6/21/2007				<0.002	<0.002	0.0035	
6/22/2007	0.0032						
12/15/2007	<0.002			<0.002	<0.002	<0.002	
6/21/2008					<0.002		
6/22/2008	<0.002			<0.002		<0.002	
12/6/2008				<0.002	<0.002	<0.002	
12/7/2008	<0.002						
7/10/2009				<0.002			
7/11/2009	<0.002				<0.002	<0.002	
12/22/2009						0.0025	
12/23/2009	0.0025			<0.002	<0.002		
6/23/2010				<0.002	<0.002	<0.002	
6/24/2010	<0.002						
1/8/2011				<0.002	<0.002	<0.002	
1/9/2011	0.004						
7/10/2011				<0.002	<0.002	<0.002	
7/11/2011	<0.002						
1/19/2012				<0.002	<0.002		
1/20/2012	<0.002					<0.002	
7/12/2012				<0.002	<0.002	<0.002	
7/13/2012	<0.002						
1/21/2013	<0.002			<0.002	<0.002	<0.002	
7/20/2013	<0.002			<0.002	<0.002	<0.002	
1/17/2014	0.0031 (J)			<0.002	0.00092 (J)	0.00092 (J)	
7/12/2014	0.00098 (J)			<0.002	<0.002	<0.002	
1/15/2015				<0.002	<0.002		
1/16/2015	<0.002					<0.002	
7/15/2015	<0.002			<0.002	<0.002	<0.002	
1/16/2016	<0.002			<0.002	<0.002	<0.002	

Time Series

Constituent: Copper (mg/L) Analysis Run 5/2/2025 12:24 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
6/22/2016	0.0012 (J)			0.0005 (J)	<0.002	0.001 (J)	
1/19/2017				<0.002	<0.002	<0.002	
2/28/2017	<0.002						
7/17/2017	<0.002						
7/18/2017				<0.002	<0.002		
7/19/2017						<0.002	
1/8/2018	<0.002						
1/9/2018				<0.002	0.0025	<0.002	
7/9/2018	<0.002						
7/10/2018	<0.002			<0.002	<0.002	<0.002	
1/30/2019	<0.002		0.0035	<0.002	<0.002	<0.002	0.0018 (J)
3/27/2019	<0.002					<0.002	
3/28/2019			0.0031	<0.002	<0.002		<0.002
9/11/2019	<0.002						
9/12/2019			0.0038	0.0024	0.0022	0.0011 (J)	0.0041
3/10/2020	<0.002		0.0021	0.00082 (J)	<0.002	0.0019 (J)	
3/11/2020							0.0032
4/2/2020				0.0019 (J)			
9/21/2020	<0.002			<0.002	<0.002		0.0018 (J)
9/22/2020			0.00096 (J)			0.0013 (J)	
3/23/2021	<0.002	0.0015 (J)	0.0011 (J)	<0.002			0.0027
3/24/2021					<0.002	0.00077 (J)	
8/17/2021	<0.002	<0.002	0.0043	<0.002	<0.002	<0.002	0.0025
2/7/2022			0.0012 (J)				0.008
2/8/2022	<0.002	<0.002		0.0011 (J)	<0.002	<0.002	
8/30/2022	<0.002	<0.002	0.0013 (J)	0.0029	0.0012 (J)	0.0011 (J)	0.0028
1/31/2023		<0.002	<0.002				<0.002
2/1/2023				<0.002	<0.002		
2/2/2023						0.0018 (J)	
3/28/2023		<0.002					
5/30/2023		<0.002					
7/26/2023		<0.002					
8/28/2023		<0.002			<0.002		0.0016 (J)
8/29/2023			<0.002	0.0057			
9/6/2023						<0.002	
1/23/2024		<0.002	<0.002	0.0012 (J)	<0.002	<0.002	0.0011 (J)
8/19/2024			<0.002				0.0015 (J)
8/20/2024		<0.002		0.003	<0.002	<0.002	
1/27/2025							<0.002
1/28/2025		<0.002	<0.002	0.0018 (J)	<0.002	0.0011 (J)	

Time Series

Constituent: Copper (mg/L) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999		<0.002	<0.002		
11/12/1999		<0.002	<0.002		
12/29/1999		<0.002	<0.002		
2/17/2000		<0.002	<0.002		
9/14/2000		<0.002	<0.002		
11/10/2000		<0.002	<0.002		
1/4/2001		<0.002	<0.002		
12/11/2001		<0.002	<0.002		
4/4/2002		<0.002	<0.002		
12/6/2002			<0.002		
12/9/2002		<0.002			
6/28/2003		<0.002	<0.002		
12/13/2003		<0.002	<0.002		
5/29/2004		<0.002	<0.002		
12/12/2004		0.11 (O)	<0.002		
6/25/2005		<0.002	<0.002		
12/13/2005		<0.002	<0.002		
6/26/2006		<0.002	<0.002		
12/2/2006		<0.002	<0.002		
6/22/2007		<0.002	<0.002		
12/14/2007		<0.002	<0.002		
6/21/2008			<0.002		
6/22/2008		<0.002			
12/6/2008		<0.002	<0.002		
7/11/2009		<0.002	<0.002		
12/23/2009		<0.002	<0.002		
6/23/2010		<0.002	<0.002		
1/8/2011		<0.002	<0.002		
7/10/2011		<0.002	<0.002		
1/20/2012		<0.002	<0.002		
7/12/2012		<0.002	<0.002		
1/21/2013		<0.002	<0.002		
7/20/2013		<0.002	<0.002		
1/17/2014		0.0065 (O)	<0.002		
7/11/2014			0.00086 (J)		
7/12/2014		<0.002			
1/15/2015		<0.002			
1/16/2015			<0.002		
7/15/2015		<0.002	<0.002		
1/17/2016		<0.002	<0.002		
6/22/2016		0.0005 (J)	<0.002		
1/24/2017		<0.002			
1/25/2017			<0.002		
7/19/2017		<0.002			
7/20/2017			<0.002		
1/9/2018		<0.002	<0.002		
7/10/2018		<0.002	<0.002		
1/30/2019			<0.002		
1/31/2019		<0.002			
3/28/2019		<0.002	<0.002		
9/12/2019		0.002	<0.002		
3/31/2020		<0.002	<0.002		

Time Series

Constituent: Copper (mg/L) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
9/22/2020		<0.002	<0.002		
3/23/2021		<0.002			<0.002
3/24/2021	0.001 (J)		<0.002	<0.002	
8/18/2021	0.00085 (J)	<0.002	<0.002	<0.002	<0.002
2/8/2022		0.0019 (J)		<0.002	
2/9/2022	<0.002		<0.002		<0.002
8/30/2022	0.0019 (J)	<0.002	<0.002		
8/31/2022				<0.002	<0.002
1/31/2023	<0.002			<0.002	<0.002
2/1/2023		<0.002	<0.002		
3/29/2023	0.0011 (J)			<0.002	<0.002
5/31/2023	0.0012 (J)			<0.002	<0.002
7/26/2023	<0.002			<0.002	<0.002
8/29/2023	<0.002	<0.002	<0.002	<0.002	<0.002
1/23/2024	<0.002	<0.002	<0.002	<0.002	<0.002
8/20/2024	<0.002	<0.002	<0.002	<0.002	<0.002
1/28/2025	<0.002	<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2025 12:24 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
8/31/2016				<0.5	<0.1	0.13 (J)	
9/1/2016	<0.1						
1/19/2017				<0.5	0.089 (J)	<0.1	
2/28/2017	0.098 (J)						
4/19/2017	<0.1						
7/17/2017	<0.1						
7/18/2017				<0.5	<0.1		
7/19/2017						<0.1	
9/20/2017	<0.1			<0.5			
9/21/2017					<0.1	0.13 (J)	
1/8/2018	<0.1						
1/9/2018				<0.5	<0.1	0.13 (J)	
3/27/2018	<0.1			<0.5	<0.1	0.21	
7/10/2018	<0.1			<0.5	<0.1	0.17 (J)	
10/8/2018	<0.1		<0.2		<0.1	0.11 (J)	<0.5
10/9/2018				<0.5			
1/30/2019	<0.1		<0.2	<0.5	0.029 (J)	0.089 (J)	<0.5
3/27/2019	<0.1					0.1 (J)	
3/28/2019			<0.2	<0.5	<0.1		<0.5
9/11/2019	<0.1						
9/12/2019			0.036 (J)	<0.5	0.035 (J)	0.052 (J)	<0.5
3/10/2020	<0.1		<0.2	0.026 (J)	0.066 (J)	0.051 (J)	
3/11/2020							<0.5
4/2/2020				0.051 (J)			
9/21/2020	<0.1			<0.5	0.06 (J)		<0.5
9/22/2020			0.039 (J)			0.049 (J)	
3/23/2021	<0.1	0.079 (J)	<0.2	<0.5			<0.5
3/24/2021					0.12	0.08 (J)	
8/17/2021	0.038 (J)	0.09 (J)	0.083 (J)	0.064 (J)	0.061 (J)	0.097 (J)	0.033 (J)
2/7/2022			0.027 (J)				<0.5
2/8/2022	<0.1	0.077 (J)		0.033 (J)	0.061 (J)	0.12	
8/30/2022	<0.1	0.51	<0.2	<0.5	0.047 (J)	0.11	<0.5
1/31/2023		0.13	<0.2				<0.5
2/1/2023				<0.5	0.043 (J)		
2/2/2023						0.12	
3/28/2023		0.04 (J)					
5/30/2023		0.067 (J)					
7/26/2023		0.19					
8/28/2023		0.21			0.051 (J)		<0.5
8/29/2023			<0.2	<0.5			
9/6/2023						0.15	
1/23/2024		0.24	<0.2	0.049 (J)	0.077 (J)	0.15	<0.5
8/19/2024			<0.2				<0.5
8/20/2024		<0.1		<0.5	<0.1	0.13	
1/27/2025							<0.5
1/28/2025		<0.1	<0.2	<0.5	<0.1	<0.1	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/31/2016		<0.1	<0.1		
1/24/2017		<0.1			
1/25/2017			<0.1		
7/19/2017		<0.1			
7/20/2017			<0.1		
9/21/2017		<0.1	<0.1		
1/9/2018		<0.1	<0.1		
3/28/2018			<0.1		
3/29/2018		<0.1			
7/10/2018		<0.1	<0.1		
10/9/2018		<0.1	<0.1		
1/30/2019			<0.1		
1/31/2019		<0.1			
3/28/2019		<0.1	<0.1		
9/12/2019		<0.1	<0.1		
3/31/2020		0.043 (J)	0.028 (J)		
9/22/2020		<0.1	<0.1		
3/23/2021		<0.1			<0.1
3/24/2021	0.046 (J)		<0.1	<0.1	
8/18/2021	0.072 (J)	<0.1	<0.1	<0.1	0.039 (J)
2/8/2022		<0.1		0.033 (J)	
2/9/2022	0.069 (J)		0.038 (J)		0.042 (J)
8/30/2022	0.071 (J)	<0.1	<0.1		
8/31/2022				<0.1	<0.1
1/31/2023	0.074 (J)			<0.1	<0.1
2/1/2023		<0.1	<0.1		
3/29/2023	0.066 (J)			<0.1	<0.1
5/31/2023	0.11			0.056 (J)	0.05 (J)
7/26/2023	0.085 (J)			<0.1	<0.1
8/29/2023	0.08 (J)	<0.1	<0.1	<0.1	<0.1
1/23/2024	0.1	0.043 (J)	<0.1	<0.1	<0.1
8/20/2024	<0.2	<0.1	<0.1	<0.1	<0.1
1/28/2025	<0.2	<0.1	<0.1	<0.1	<0.1

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
10/5/1999	0.0077			<0.001	<0.001	<0.0013	
11/12/1999	0.0063 (O)			<0.001	<0.001	<0.0013	
12/29/1999	0.016			<0.001	<0.001	<0.0013	
2/17/2000	0.011			<0.001	<0.001	<0.0013	
9/13/2000	<0.001			<0.001	<0.001	<0.0013	
11/10/2000	<0.001			<0.001	<0.001	<0.0013	
1/3/2001					<0.001	<0.0013	
1/4/2001	<0.001			<0.001			
12/10/2001	<0.001				<0.001	<0.0013	
12/11/2001				<0.001			
4/4/2002	<0.001			<0.001	<0.001	<0.0013	
12/6/2002	<0.001						
12/9/2002				<0.001	<0.001	0.011	
6/28/2003	<0.001			<0.001	<0.001	<0.0013	
12/13/2003	<0.001			<0.001	<0.001	<0.0013	
5/28/2004	0.015						
5/29/2004				<0.001	<0.001	<0.0013	
12/11/2004	0.01			<0.001	<0.001	<0.0013	
6/24/2005	<0.001			<0.001	<0.001	<0.0013	
12/13/2005	<0.001			<0.001	<0.001	<0.0013	
6/26/2006						<0.0013	
6/27/2006	0.013			<0.001	<0.001		
12/1/2006	<0.001			<0.001	<0.001	<0.0013	
6/21/2007				<0.001	<0.001	<0.0013	
6/22/2007	<0.001						
12/15/2007	<0.001			<0.001	<0.001	<0.0013	
6/21/2008					<0.001		
6/22/2008	<0.001			<0.001		<0.0013	
12/6/2008				<0.001	<0.001	<0.0013	
12/7/2008	<0.001						
7/10/2009				<0.001			
7/11/2009	<0.001				<0.001	<0.0013	
12/22/2009						<0.0013	
12/23/2009	<0.001			<0.001	<0.001		
6/23/2010				<0.001	<0.001	<0.0013	
6/24/2010	<0.001						
1/8/2011				<0.001	<0.001	<0.0013	
1/9/2011	<0.001						
7/10/2011				<0.001	<0.001	<0.0013	
7/11/2011	<0.001						
1/19/2012				<0.001	<0.001		
1/20/2012	<0.001					<0.0013	
7/12/2012				<0.001	<0.001	<0.0013	
7/13/2012	<0.001						
1/21/2013	<0.001			<0.001	<0.001	<0.0013	
7/20/2013	<0.001			<0.001	<0.001	<0.0013	
1/17/2014	0.0086 (J)			<0.001	<0.001	<0.0013	
7/12/2014	<0.001			<0.001	<0.001	<0.0013	
1/15/2015				<0.001	<0.001		
1/16/2015	<0.001					<0.0013	
7/15/2015	<0.001			<0.001	<0.001	<0.0013	
1/16/2016	<0.001			<0.001	<0.001	<0.0013	

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2025 12:24 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
6/22/2016	0.0022 (J)			0.0004 (J)	0.0003 (J)	0.001 (J)	
8/31/2016				<0.001	<0.001	0.00099 (J)	
9/1/2016	0.082 (O)						
12/15/2016	0.0027						
1/19/2017				<0.001	<0.001	0.001 (J)	
2/28/2017	<0.001						
4/19/2017	<0.001						
7/17/2017	<0.001						
7/18/2017				<0.001	<0.001		
7/19/2017						0.00081 (J)	
9/20/2017	0.00035 (J)			<0.001			
9/21/2017					0.0076	0.00086 (J)	
1/8/2018	<0.001						
1/9/2018				<0.001	0.0023	0.00059 (J)	
3/27/2018	<0.001			<0.001	<0.001	<0.0013	
7/10/2018	<0.001			<0.001	<0.001	0.00045 (J)	
10/8/2018	<0.001		<0.001		<0.001	0.00037 (J)	<0.001
10/9/2018				0.00039 (J)			
1/30/2019	0.00021 (J)		0.00028 (J)	0.00034 (J)	0.00013 (J)	0.00064 (J)	<0.001
3/27/2019	<0.001					0.0012 (J)	
3/28/2019			<0.001	0.00038 (J)	<0.001		<0.001
9/11/2019	<0.001						
9/12/2019			<0.001	<0.001	<0.001	0.00082 (J)	<0.001
3/10/2020	0.00015 (J)		<0.001	0.00013 (J)	0.00031 (J)	0.0022	
3/11/2020							<0.001
4/2/2020				0.00062 (J)			
9/21/2020	<0.001			<0.001	0.00025 (J)		<0.001
9/22/2020			<0.001			0.0012	
3/23/2021	0.00017 (J)	<0.001	<0.001	0.00029 (J)			<0.001
3/24/2021					0.00021 (J)	0.00066 (J)	
8/17/2021	<0.001	<0.001	0.00073 (J)	0.00015 (J)	<0.001	0.00044 (J)	<0.001
2/7/2022			<0.001				<0.001
2/8/2022	<0.001	<0.001		<0.001	<0.001	0.00058 (J)	
8/30/2022	<0.001	<0.001	<0.001	<0.001	<0.001	0.00064 (J)	<0.001
1/31/2023		<0.001	<0.001				<0.001
2/1/2023				0.00027 (J)	<0.001		
2/2/2023						0.0013	
3/28/2023		<0.001					
5/30/2023		0.00043 (J)					
7/26/2023		<0.001					
8/28/2023		<0.001			<0.001		<0.001
8/29/2023			<0.001	<0.001			
9/6/2023						0.0007 (J)	
1/23/2024		<0.001	<0.001	0.00031 (J)	<0.001	0.0011	0.00056 (J)
8/19/2024			<0.001				<0.001
8/20/2024		<0.001		0.0003 (J)	<0.001	0.00046 (J)	
1/27/2025							<0.001
1/28/2025		<0.001	<0.001	0.00031 (J)	<0.001	0.0006 (J)	

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999		0.0054 (O)	<0.001		
11/12/1999		<0.001	<0.001		
12/29/1999		<0.001	<0.001		
2/17/2000		<0.001	<0.001		
9/14/2000		<0.001	0.0067 (O)		
11/10/2000		<0.001	<0.001		
1/4/2001		<0.001	<0.001		
12/11/2001		<0.001	<0.001		
4/4/2002		<0.001	<0.001		
12/6/2002			<0.001		
12/9/2002		<0.001			
6/28/2003		<0.001	<0.001		
12/13/2003		<0.001	<0.001		
5/29/2004		<0.001	<0.001		
12/12/2004		<0.001	<0.001		
6/25/2005		<0.001	<0.001		
12/13/2005		<0.001	<0.001		
6/26/2006		<0.001	<0.001		
12/2/2006		<0.001	<0.001		
6/22/2007		<0.001	<0.001		
12/14/2007		<0.001	<0.001		
6/21/2008			<0.001		
6/22/2008		<0.001			
12/6/2008		<0.001	<0.001		
7/11/2009		<0.001	<0.001		
12/23/2009		<0.001	<0.001		
6/23/2010		<0.001	<0.001		
1/8/2011		<0.001	<0.001		
7/10/2011		<0.001	<0.001		
1/20/2012		<0.001	<0.001		
7/12/2012		<0.001	<0.001		
1/21/2013		<0.001	<0.001		
7/20/2013		<0.001	<0.001		
1/17/2014		<0.001	<0.001		
7/11/2014			<0.001		
7/12/2014		<0.001			
1/15/2015		<0.001			
1/16/2015			<0.001		
7/15/2015		<0.001	<0.001		
1/17/2016		<0.001	<0.001		
6/22/2016		0.0001 (J)	<0.001		
8/31/2016		<0.001	<0.001		
1/24/2017		<0.001			
1/25/2017			<0.001		
7/19/2017		<0.001			
7/20/2017			<0.001		
9/21/2017		0.0014 (O)	<0.001		
1/9/2018		<0.001	<0.001		
3/28/2018			<0.001		
3/29/2018		<0.001			
7/10/2018		<0.001	<0.001		
10/9/2018		<0.001	<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
1/30/2019			<0.001		
1/31/2019		0.00015 (J)			
3/28/2019		<0.001	<0.001		
9/12/2019		<0.001	<0.001		
3/31/2020		<0.001	<0.001		
9/22/2020		<0.001	<0.001		
3/23/2021		<0.001			<0.001
3/24/2021	<0.001		<0.001	0.0003 (J)	
8/18/2021	<0.001	<0.001	<0.001	0.00021 (J)	<0.001
2/8/2022		<0.001		0.00061 (J)	
2/9/2022	<0.001		<0.001		<0.001
8/30/2022	<0.001	<0.001	<0.001		
8/31/2022				0.00027 (J)	<0.001
1/31/2023	<0.001			<0.001	<0.001
2/1/2023		<0.001	<0.001		
3/29/2023	<0.001			<0.001	<0.001
5/31/2023	0.00048 (J)			0.00061 (J)	0.00038 (J)
7/26/2023	<0.001			<0.001	<0.001
8/29/2023	<0.001	<0.001	<0.001	<0.001	0.00038 (J)
1/23/2024	<0.001	<0.001	<0.001	0.0003 (J)	0.00023 (J)
8/20/2024	<0.001	<0.001	<0.001	0.00024 (J)	<0.001
1/28/2025	<0.001	<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: pH, Field (SU) Analysis Run 5/2/2025 12:24 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
10/5/1999	6.63			6.42	6.51	6.3	
11/12/1999	5.51			5.03	5.46	4.72	
12/29/1999	5.23			4.92	5.13	4.8	
2/17/2000	5.29			5.13	5.22	4.78	
9/13/2000	5.41			4.85	4.86	4.58	
11/10/2000	5.47			5.05	5.29	4.5	
1/4/2001	5.44			5.08	5.53	4.61	
12/11/2001	4.86			4.81	5.37	4.87	
4/4/2002	5.1			4.92	5.32	4.96	
12/6/2002	5.05			5.07	5.45	4.4	
6/28/2003	4.91			4.69	4.73	3.77	
12/13/2003	4.87			4.81	4.53	4.25	
5/28/2004	4.98			3.93	4.22	3.9	
12/10/2004	4.35			4.25	4.26	3.71	
6/24/2005	4.82			4.5	4.47	3.94	
12/13/2005	4.66			4.52	4.47	3.94	
6/26/2006						5.56	
6/27/2006	5.49			3.59	3.68		
7/11/2014	5.55						
7/12/2014				5.44	5.33	3.88	
7/15/2015	5.13			4.98	4.94	4.19	
1/16/2016	5.06			4.87	4.85	4.35	
6/22/2016	5.15			4.92	5.09	4.64	
8/31/2016				4.92	4.79	4.53	
12/15/2016	4.92						
1/19/2017				4.86	4.72	4.79	
2/28/2017	5.33						
7/17/2017	5.09						
7/18/2017				5.02	4.96		
7/19/2017						4.83	
9/20/2017	5.29			4.72			
9/21/2017					4.7	4.57	
1/8/2018	5.26			4.92			
1/9/2018				4.83	4.91	4.4	
3/27/2018	5.27			4.91	4.92	4.11	
7/10/2018	5.17			4.87	4.94	4.62	
10/8/2018	5.18		5.29		4.76	4.51	5.79
10/9/2018				4.84			
1/30/2019	5.17		5.08	4.88	4.94	4.72	5.15
3/27/2019	5.09					4.56	
3/28/2019			4.93	4.8	4.99		5.62
9/11/2019	5.1						
9/12/2019			5.57	4.99	4.92	4.54	5.1
3/10/2020	5.48		5.56	4.79	4.59	4.81	
3/11/2020							5.05
4/2/2020				4.75			
9/21/2020	4.95			4.69	4.6		5.35
9/22/2020			5.83			4.99	
3/23/2021	5.17	5.63	5.61	4.6			5.01
3/24/2021					4.42	4.37	
8/17/2021	5.24	5.83	5.82	4.76	4.78	4.63	5.51
2/7/2022			5.7				5.29

Time Series

Constituent: pH, Field (SU) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
2/8/2022	5.17	5.43		4.69	4.93	4.67	
8/30/2022	5.01	5.86	4.9	4.71	4.72	4.51	5
1/31/2023		6.15	5.07				5
2/1/2023				4.52	4.77		
2/2/2023						4.59	
3/28/2023		5.73					
5/30/2023		5.89					
7/26/2023		5.86					
8/28/2023		5.72			4.34		4.91
8/29/2023			5.78	4.46			
9/6/2023						4.32	
1/23/2024		6.52	5.14	4.65	4.98	4.66	5.01
8/19/2024			5.7				5.16
8/20/2024		5.71		4.96	4.81	4.62	
1/27/2025							5.18
1/28/2025		5.5	5	4.52	4.88	4.5	

Time Series

Constituent: pH, Field (SU) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999		6.08	5.33		
11/12/1999		5.35	4.6		
12/29/1999		5.19	4.8		
2/17/2000		5.18	4.98		
9/13/2000		5.13	4.75		
11/10/2000		5.2	4.65		
1/4/2001		5.14	4.83		
12/11/2001		4.93	4.73		
4/4/2002		5	5.05		
12/6/2002		5.02	4.65		
6/28/2003		4.92	4		
12/13/2003		4.82	4.97		
5/28/2004		4.6	4.51		
12/10/2004		4.29	4.09		
2/5/2005		4.43			
6/24/2005		4.56	4.27		
12/13/2005		4.34	4.54		
6/26/2006		4.38	4.57		
7/11/2014			4.64		
7/12/2014		5.68			
7/15/2015		5.22	4.67		
1/17/2016		6.07			
6/22/2016		5.84	4.69		
8/31/2016		5.84	4.92		
1/24/2017		5.25			
1/25/2017			4.73		
7/19/2017		5.54			
7/20/2017			4.96		
9/21/2017		5.19	4.78		
1/9/2018		4.97	4.79		
3/28/2018			4.44		
3/29/2018		5.15			
7/10/2018		5.37	4.88		
10/9/2018		5.04	4.85		
1/30/2019			4.52		
1/31/2019		5.38			
3/28/2019		5.38	4.68		
9/12/2019		5.14	4.89		
3/31/2020		5.64	4.66 (D)		
9/22/2020		5.04	4.92		
3/23/2021		5.61			5.31
3/24/2021	4.38		4.59	5.42	
8/18/2021	4.59	4.98	4.76	5.17	5.26
2/8/2022		4.79		5.2	
2/9/2022	4.53		4.82 (D)		5.31
8/30/2022	4.43	4.96	4.71		
8/31/2022				4.97	5.07
1/31/2023	4.43			4.85	5.32
2/1/2023		4.83	4.6		
3/29/2023	4.38			4.69	5.18
5/31/2023	4.31			4.62	5.07
7/26/2023	4.26			4.57	4.93

Time Series

Constituent: pH, Field (SU) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/29/2023	4.25	4.63	4.39	4.6	4.96
1/23/2024	4.55	4.96	4.64	4.8	5.32
8/20/2024	4.52	5.6	4.68	4.78	5.3
1/28/2025	4.46	5.01	4.69	4.69	5.26

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2025 12:24 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
8/31/2016				<5	7	21	
9/1/2016	<1						
1/19/2017				<5	6.3	11	
2/28/2017	2.7						
4/19/2017	<1						
7/17/2017	<1						
7/18/2017				<5	4.7		
7/19/2017						12	
9/20/2017	<1			<5			
9/21/2017					4.5	15	
1/8/2018	<1						
1/9/2018				<5	3	25	
3/27/2018	<1			<5	3.8	31	
7/10/2018	<1			<5	3.4	19	
10/8/2018	<1		73		3.4	17	75
10/9/2018				<5			
1/30/2019	1.2		74	0.41 (J)	3.5	15	85
3/27/2019	<1					20	
3/28/2019			71	0.44 (J)	3		85
9/11/2019	<1						
9/12/2019			59	0.69 (J)	3.7	10	81
3/10/2020	1.5		57	3	7.2	15	
3/11/2020							110
4/2/2020				<5			
9/21/2020	<1			<5	5		49
9/22/2020			52			12	
3/23/2021	<1	6.8	49	<5			88
3/24/2021					7	16	
8/17/2021	<1	5.2	54	<5	5	11	84
2/7/2022			42				54
2/8/2022	<1	2.8		<5	5.9	13	
8/30/2022	<1	1.6	74	<5	3.5	13	73
1/31/2023		1	71				74
2/1/2023				<5	3.1		
2/2/2023						15	
3/28/2023		2					
5/30/2023		2					
7/26/2023		1.5					
8/28/2023		1.4			3.2		67
8/29/2023			42	<5			
9/6/2023						14	
1/23/2024		1.4	54	<5	3.3	14	66
8/19/2024			32				77
8/20/2024		0.78 (J)		<5	4	19	
1/27/2025							65
1/28/2025		0.7 (J)	65	<5	3.4	18	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/31/2016		<1	1.7		
1/24/2017		<1			
1/25/2017			1.8		
7/19/2017		<1			
7/20/2017			0.83 (J)		
9/21/2017		<1	1.1		
1/9/2018		<1	0.79 (J)		
3/28/2018			0.79 (J)		
3/29/2018		<1			
7/10/2018		<1	0.76 (J)		
10/9/2018		<1	<1		
1/30/2019			0.9 (J)		
1/31/2019		0.57 (J)			
3/28/2019		<1	1.1		
9/12/2019		0.43 (J)	1.1		
3/31/2020		1	2.5		
9/22/2020		<1	0.76 (J)		
3/23/2021		0.8 (J)			10
3/24/2021	1		<1	26	
8/18/2021	0.84 (J)	1.2	<1	10	8.3
2/8/2022		2.7		5.9	
2/9/2022	<2		<1		5.4
8/30/2022	<2	1.1	<1		
8/31/2022				<1	3.5
1/31/2023	<2			<1	3.3
2/1/2023		1.3	<1		
3/29/2023	<2			<1	4
5/31/2023	0.43 (J)			0.71 (J)	3.3
7/26/2023	<2			0.43 (J)	3.2
8/29/2023	0.4 (J)	5.2	0.57 (J)	0.48 (J)	2.7
1/23/2024	<2	3.8	0.41 (J)	<1	3.3
8/20/2024	0.48 (J)	5.1	0.95 (J)	0.52 (J)	3.2
1/28/2025	<2	4.6	1.1	<1	2.2

Time Series

Constituent: TDS (mg/L) Analysis Run 5/2/2025 12:24 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
8/31/2016				42	14	66	
9/1/2016	2200 (O)						
1/19/2017				52	34	48	
2/28/2017	74						
4/19/2017	8						
7/17/2017	50						
7/18/2017				32	26		
7/19/2017						48	
9/20/2017	26			16			
9/21/2017					24	76	
1/8/2018	16						
1/9/2018				4 (J)	16	18	
3/27/2018	40			30	<5	48	
7/10/2018	90			30	14	76	
10/8/2018	70		170		36	8	180
10/9/2018				56			
1/30/2019	82		140	41	40	67	180
3/27/2019	66					70	
3/28/2019			150	36	24		170
9/11/2019	53						
9/12/2019			89	<10	10	20	140
3/10/2020	67		130	49	39	67	
3/11/2020							180
4/2/2020				61			
9/21/2020	31			61	31		130
9/22/2020			110			53	
3/23/2021	47	63	130	76			180
3/24/2021					36	60	
8/17/2021	36	43	130	83	33	50	160
2/7/2022			120				150
2/8/2022	45	39		62	29	57	
8/30/2022	55	79	150	87	40	64	160
1/31/2023		76	140				150
2/1/2023				85	34		
2/2/2023						65	
3/28/2023		48					
5/30/2023		51					
7/26/2023		84					
8/28/2023		85			48		140
8/29/2023			110	85			
9/6/2023						66	
1/23/2024		100	120	99	32	68	140
8/19/2024			98				130
8/20/2024		50		94	40	53	
1/27/2025							130
1/28/2025		52	120	98	37	58	

Time Series

Constituent: TDS (mg/L) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
8/31/2016		42	36		
1/24/2017		28			
1/25/2017			58		
7/19/2017		42			
7/20/2017			16		
9/21/2017		46	24		
1/9/2018		10	8		
3/28/2018			26		
3/29/2018		52			
7/10/2018		38	26		
10/9/2018		52	16		
1/30/2019			37		
1/31/2019		45			
3/28/2019		45	28		
9/12/2019		28	<10		
3/31/2020		50	52		
9/22/2020		30	36		
3/23/2021		56			71
3/24/2021	59		27	97	
8/18/2021	66	37	29	41	61
2/8/2022		30		48	
2/9/2022	62		22		100
8/30/2022	65	38	21		
8/31/2022				27	73
1/31/2023	57			25	71
2/1/2023		36	18		
3/29/2023	63			26	69
5/31/2023	61			25	68
7/26/2023	57			29	70
8/29/2023	53	45	21	36	76
1/23/2024	63	40	25	35	75
8/20/2024	56	60	23	39	71
1/28/2025	58	42	37	37	68

Time Series

Constituent: Vanadium (mg/L) Analysis Run 5/2/2025 12:24 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
10/5/1999	0.02			<0.002	<0.002	<0.005	
11/12/1999	0.027			<0.002	<0.002	<0.005	
12/29/1999	0.055 (O)			<0.002	<0.002	<0.005	
2/17/2000	0.042 (O)			<0.002	<0.002	<0.005	
9/13/2000	<0.001			<0.002	<0.002	<0.005	
11/10/2000	0.014			<0.002	<0.002	<0.005	
1/3/2001					<0.002	<0.005	
1/4/2001	<0.001			<0.002			
12/10/2001	<0.001				<0.002	<0.005	
12/11/2001				<0.002			
4/4/2002	<0.001			<0.002	<0.002	<0.005	
12/6/2002	<0.001						
12/9/2002				<0.002	<0.002	0.03	
6/28/2003	<0.001			<0.002	<0.002	<0.005	
12/13/2003	<0.001			<0.002	<0.002	<0.005	
5/28/2004	0.017						
5/29/2004				<0.002	<0.002	<0.005	
12/11/2004	0.0082			<0.002	<0.002	<0.005	
6/24/2005	<0.001			<0.002	<0.002	<0.005	
12/13/2005	<0.001			<0.002	<0.002	<0.005	
6/26/2006						<0.005	
6/27/2006	0.023			<0.002	<0.002		
12/1/2006	0.0081			<0.002	<0.002	<0.005	
6/21/2007				0.0038	<0.002	<0.005	
6/22/2007	0.009						
12/15/2007	0.0056			<0.002	<0.002	<0.005	
6/21/2008					<0.002		
6/22/2008	0.013			<0.002		0.0026	
12/6/2008				<0.002	<0.002	<0.005	
12/7/2008	0.0027						
7/10/2009				<0.002			
7/11/2009	0.0032				<0.002	<0.005	
12/22/2009						<0.005	
12/23/2009	0.0093			<0.002	<0.002		
6/23/2010				<0.002	<0.002	<0.005	
6/24/2010	0.0033						
1/8/2011				<0.002	<0.002	<0.005	
1/9/2011	<0.001						
7/10/2011				<0.002	<0.002	<0.005	
7/11/2011	<0.001						
1/19/2012				<0.002	<0.002		
1/20/2012	<0.001					<0.005	
7/12/2012				<0.002	<0.002	<0.005	
7/13/2012	0.011						
1/21/2013	0.028			<0.002	<0.002	<0.005	
7/20/2013	<0.001			<0.002	<0.002	<0.005	
1/17/2014	0.019			<0.002	<0.002	<0.005	
7/12/2014	0.0025 (J)			<0.002	<0.002	<0.005	
1/15/2015				<0.002	<0.002		
1/16/2015	0.0012 (J)					0.0011 (J)	
7/15/2015	<0.001			<0.002	<0.002	0.0016 (J)	
1/16/2016	0.0015 (J)			0.0011 (J)	0.00082 (J)	<0.005	

Time Series

Constituent: Vanadium (mg/L) Analysis Run 5/2/2025 12:24 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
6/22/2016	0.0062 (J)			<0.002	<0.002	0.0018 (J)	
1/19/2017				<0.002	0.0025	0.0033	
2/28/2017	0.0019 (J)						
7/17/2017	<0.001						
7/18/2017				<0.002	<0.002		
7/19/2017						0.0045	
1/8/2018	<0.001						
1/9/2018				<0.002	0.0072	0.0027	
7/10/2018	0.0036			<0.002	0.0016 (J)	0.005	
1/30/2019	0.0017 (J)		0.0018 (J)	0.0016 (J)	<0.002	0.0019 (J)	<0.002
3/27/2019	0.0029					0.0082	
3/28/2019			<0.002	0.0076	<0.002		0.0053
9/11/2019	0.0014						
9/12/2019			0.0021	0.002	0.0017	0.004	0.002
3/10/2020	<0.001		<0.002	<0.002	<0.002	0.01	
3/11/2020							<0.002
4/2/2020				0.0013			
9/21/2020	<0.001			<0.002	0.0012		<0.002
9/22/2020			<0.002			0.0056	
3/23/2021	<0.001	<0.002	<0.002	<0.002			<0.002
3/24/2021					<0.002	0.0018	
8/17/2021	<0.001	<0.002	<0.002	<0.002	<0.002	0.0018	<0.002
2/7/2022			<0.002				0.0011
2/8/2022	<0.001	<0.002		<0.002	<0.002	0.0023	
8/30/2022	0.0019	0.0019	0.0016	<0.002	<0.002	0.0028	0.0016
1/31/2023		<0.002	<0.002				<0.002
2/1/2023				<0.002	<0.002		
2/2/2023						0.0041	
3/28/2023		<0.002					
5/30/2023		<0.002					
7/26/2023		<0.002					
8/28/2023		<0.002			<0.002		<0.002
8/29/2023			<0.002	<0.002			
9/6/2023						0.0015 (J)	
1/23/2024		<0.002	<0.002	<0.002	<0.002	0.0011 (J)	<0.002
8/19/2024			<0.002				<0.002
8/20/2024		<0.002		0.00095 (J)	<0.002	0.0012 (J)	
1/27/2025							<0.002
1/28/2025		<0.002	<0.002	<0.002	<0.002	0.001 (J)	

Time Series

Constituent: Vanadium (mg/L) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999		0.015 (O)	<0.002		
11/12/1999		<0.002	<0.002		
12/29/1999		<0.002	<0.002		
2/17/2000		0.01	<0.002		
9/14/2000		<0.002	<0.002		
11/10/2000		<0.002	<0.002		
1/4/2001		<0.002	<0.002		
12/11/2001		<0.002	<0.002		
4/4/2002		<0.002	<0.002		
12/6/2002			<0.002		
12/9/2002		<0.002			
6/28/2003		<0.002	<0.002		
12/13/2003		<0.002	<0.002		
5/29/2004		<0.002	<0.002		
12/12/2004		<0.002	<0.002		
6/25/2005		<0.002	<0.002		
12/13/2005		<0.002	<0.002		
6/26/2006		<0.002	<0.002		
12/2/2006		<0.002	<0.002		
6/22/2007		<0.002	<0.002		
12/14/2007		<0.002	<0.002		
6/21/2008			<0.002		
6/22/2008		<0.002			
12/6/2008		<0.002	<0.002		
7/11/2009		<0.002	<0.002		
12/23/2009		<0.002	<0.002		
6/23/2010		<0.002	<0.002		
1/8/2011		<0.002	<0.002		
7/10/2011		<0.002	<0.002		
1/20/2012		<0.002	<0.002		
7/12/2012		<0.002	<0.002		
1/21/2013		<0.002	<0.002		
7/20/2013		<0.002	<0.002		
1/17/2014		<0.002	<0.002		
7/11/2014			<0.002		
7/12/2014		<0.002			
1/15/2015		<0.002			
1/16/2015			<0.002		
7/15/2015		<0.002	<0.002		
1/17/2016		<0.002	<0.002		
6/22/2016		0.0019 (J)	<0.002		
1/24/2017		0.0062			
1/25/2017			<0.002		
7/19/2017		0.0015 (J)			
7/20/2017			<0.002		
1/9/2018		<0.002	<0.002		
7/10/2018		0.0018 (J)	0.0022 (J)		
1/30/2019			<0.002		
1/31/2019		0.001 (J)			
3/28/2019		0.0059	<0.002		
9/12/2019		0.0018	0.0021		
3/31/2020		<0.002	<0.002		

Time Series

Constituent: Vanadium (mg/L) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
9/22/2020		<0.002	<0.002		
3/23/2021		<0.002			<0.002
3/24/2021	<0.002		<0.002	<0.002	
8/18/2021	<0.002	<0.002	<0.002	<0.002	<0.002
2/8/2022		<0.002		<0.002	
2/9/2022	<0.002		<0.002		<0.002
8/30/2022	0.00087 (J)	<0.002	<0.002		
8/31/2022				<0.002	<0.002
1/31/2023	<0.002			<0.002	<0.002
2/1/2023		<0.002	<0.002		
3/29/2023	<0.002			<0.002	<0.002
5/31/2023	<0.002			<0.002	<0.002
7/26/2023	<0.002			<0.002	<0.002
8/29/2023	<0.002	<0.002	<0.002	<0.002	<0.002
1/23/2024	<0.002	<0.002	<0.002	<0.002	<0.002
8/20/2024	<0.002	<0.002	<0.002	<0.002	<0.002
1/28/2025	<0.002	<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Zinc (mg/L) Analysis Run 5/2/2025 12:24 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
10/5/1999	0.043			0.023	0.039	<0.02	
11/12/1999	0.035			<0.02	0.025	<0.02	
12/29/1999	0.058			<0.02	0.023	<0.02	
2/17/2000	0.051			<0.02	<0.02	<0.02	
9/13/2000	<0.005			<0.02	0.035	0.021	
11/10/2000	<0.005			<0.02	0.023	<0.02	
1/3/2001					0.027	<0.02	
1/4/2001	<0.005			<0.02			
12/10/2001	<0.005				0.036	<0.02	
12/11/2001				<0.02			
4/4/2002	0.02			<0.02	0.038	<0.02	
12/6/2002	<0.005						
12/9/2002				<0.02	0.033	0.06	
6/28/2003	<0.005			<0.02	0.018	0.19 (O)	
12/13/2003	<0.005			<0.02	0.013	0.067	
5/28/2004	0.034						
5/29/2004				<0.02	<0.02	0.068	
12/11/2004	0.021			<0.02	<0.02	0.039	
6/24/2005	<0.005			<0.02	<0.02	0.033	
12/13/2005	0.013			<0.02	0.011	0.039	
6/26/2006						0.022	
6/27/2006	0.074			0.0047	0.0055		
12/1/2006	0.048			0.065	0.0052	0.018	
6/21/2007				0.008	0.0062	0.07	
6/22/2007	0.067						
12/15/2007	0.053			0.0043	0.0055	0.0072	
6/21/2008					0.011		
6/22/2008	0.024			0.0062		0.011	
12/6/2008				0.051	0.008	0.011	
12/7/2008	0.0087						
7/10/2009				0.0043			
7/11/2009	0.045				0.011	0.013	
12/22/2009						0.013	
12/23/2009	0.054			0.0039	0.0051		
6/23/2010				<0.02	0.0031	0.0084	
6/24/2010	0.0065						
1/8/2011				0.0037	0.0035	0.0089	
1/9/2011	0.022						
7/10/2011				0.0047	0.0081	0.0084	
7/11/2011	0.0032						
1/19/2012				0.0045	0.017		
1/20/2012	0.0089					0.0094	
7/12/2012				0.0033	0.01	0.0098	
7/13/2012	0.012						
1/21/2013	0.024			0.0038	0.013	0.007	
7/20/2013	0.0068			0.004	<0.02	0.0074	
1/17/2014	0.02			0.005	0.0066	0.0092	
7/12/2014	0.0055			0.004	0.0054	0.013	
1/15/2015				0.0056	0.0076		
1/16/2015	0.0043					0.0081	
7/15/2015	0.0026			0.0034	0.0053	0.009	
1/16/2016	0.0035			0.0038	0.0048	0.007	

Time Series

Constituent: Zinc (mg/L) Analysis Run 5/2/2025 12:24 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-1B (bg)	GWA-2B (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWA-7A (bg)
6/22/2016	0.0096 (J)			0.0038 (J)	0.0038 (J)	0.0091 (J)	
1/19/2017				<0.02	<0.02	0.0065 (J)	
2/28/2017	<0.005						
7/17/2017	<0.005						
7/18/2017				<0.02	<0.02		
7/19/2017						0.0099 (J)	
1/8/2018	<0.005						
1/9/2018				<0.02	0.0072 (J)	0.014 (J)	
7/10/2018	<0.005			<0.02	<0.02	0.0089 (J)	
1/30/2019	<0.005		0.013 (J)	0.0058 (J)	0.006 (J)	0.0057 (J)	0.011 (J)
3/27/2019	<0.005					0.01 (J)	
3/28/2019			0.014 (J)	<0.02	<0.02		0.0086 (J)
9/11/2019	0.0062						
9/12/2019			0.0075	0.0081	0.0073	0.0074	0.014
3/10/2020	<0.005		0.0061	0.0079	0.0079	0.0071	
3/11/2020							0.0099
4/2/2020				0.011			
9/21/2020	<0.005			0.0055	0.013		0.007
9/22/2020			0.0066			0.039	
3/23/2021	<0.005	0.0098	0.0066	0.0092			0.0096
3/24/2021					0.0058	0.0085	
8/17/2021	0.048	0.024	0.026	0.014	0.029	0.024	0.052
2/7/2022			0.0046 (J)				0.0098
2/8/2022	0.0031 (J)	0.0048 (J)		0.013	0.007	0.007	
8/30/2022	<0.005	0.003 (J)	0.014	0.012	0.01	0.013	0.0089
1/31/2023		<0.005	0.012				0.0082
2/1/2023				0.0071	0.0089		
2/2/2023						0.0095	
3/28/2023		0.0096					
5/30/2023		0.0076					
7/26/2023		<0.005					
8/28/2023		0.0029 (J)			0.0064		0.019
8/29/2023			0.011	0.012			
9/6/2023						0.0082	
1/23/2024		0.05	0.01	0.0091	0.0078	0.0077	0.0094
8/19/2024			0.04				0.019
8/20/2024		0.0035 (J)		0.019	0.0081	0.007	
1/27/2025							0.0087
1/28/2025		<0.005	0.014	0.011	0.012	0.013	

Time Series

Constituent: Zinc (mg/L) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
10/5/1999		0.028	<0.005		
11/12/1999		<0.02	<0.005		
12/29/1999		0.022	<0.005		
2/17/2000		0.021	<0.005		
9/14/2000		<0.02	0.036 (O)		
11/10/2000		<0.02	<0.005		
1/4/2001		<0.02	<0.005		
12/11/2001		<0.02	<0.005		
4/4/2002		0.069 (O)	<0.005		
12/6/2002			0.012		
12/9/2002		0.012			
6/28/2003		0.011	<0.005		
12/13/2003		<0.02	<0.005		
5/29/2004		<0.02	<0.005		
12/12/2004		0.027	<0.005		
6/25/2005		<0.02	<0.005		
12/13/2005		0.011	<0.005		
6/26/2006		0.0064	<0.005		
12/2/2006		0.0077	0.098 (O)		
6/22/2007		0.0082	0.0043		
12/14/2007		0.0063	0.0057		
6/21/2008			0.0064		
6/22/2008		0.0074			
12/6/2008		0.0066	0.0052		
7/11/2009		0.0054	0.0049		
12/23/2009		0.0046	0.005		
6/23/2010		0.0041	0.0044		
1/8/2011		0.019	0.0036		
7/10/2011		0.005	0.0046		
1/20/2012		0.007	0.0045		
7/12/2012		0.0045	0.0041		
1/21/2013		0.0045	0.0038		
7/20/2013		<0.02	0.0047		
1/17/2014		0.0075	0.0051		
7/11/2014			0.0066		
7/12/2014		0.0051			
1/15/2015		0.0054			
1/16/2015			0.0046		
7/15/2015		0.0049	0.0036		
1/17/2016		0.0051	0.004		
6/22/2016		0.0087 (J)	0.0053 (J)		
1/24/2017		0.0071 (J)			
1/25/2017			<0.005		
7/19/2017		<0.02			
7/20/2017			<0.005		
1/9/2018		0.0079 (J)	<0.005		
7/10/2018		0.0067 (J)	<0.005		
1/30/2019			0.0042 (J)		
1/31/2019		0.0068 (J)			
3/28/2019		0.0069 (J)	<0.005		
9/12/2019		0.0089	0.0093		
3/31/2020		0.0065	<0.005		

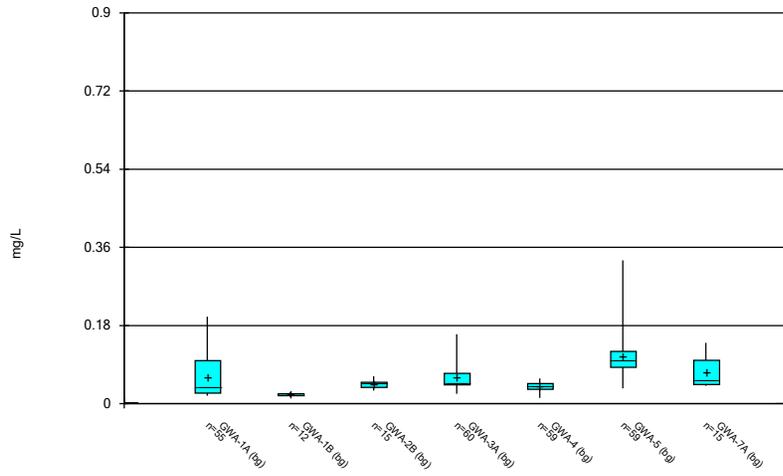
Time Series

Constituent: Zinc (mg/L) Analysis Run 5/2/2025 12:24 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
9/22/2020		0.029	0.017		
3/23/2021		0.0085			0.0091
3/24/2021	0.02		0.01	0.013	
8/18/2021	0.15	0.0081	0.012	0.021	0.072
2/8/2022		0.0078		0.011	
2/9/2022	0.023		0.0039 (J)		0.0069
8/30/2022	0.02	0.012	0.0046 (J)		
8/31/2022				0.014	0.0049 (J)
1/31/2023	0.018			0.0088	<0.005
2/1/2023		0.0062	<0.005		
3/29/2023	0.02			0.01	0.0056
5/31/2023	0.02			0.0096	0.0049 (J)
7/26/2023	0.019			0.011	0.011
8/29/2023	0.017	0.0065	0.004 (J)	0.01	0.008
1/23/2024	0.018	0.0069	0.0041 (J)	0.016	0.0042 (J)
8/20/2024	0.02	0.0067	<0.005	0.015	0.0052
1/28/2025	0.021	0.0083	0.0062	0.018	0.0047 (J)

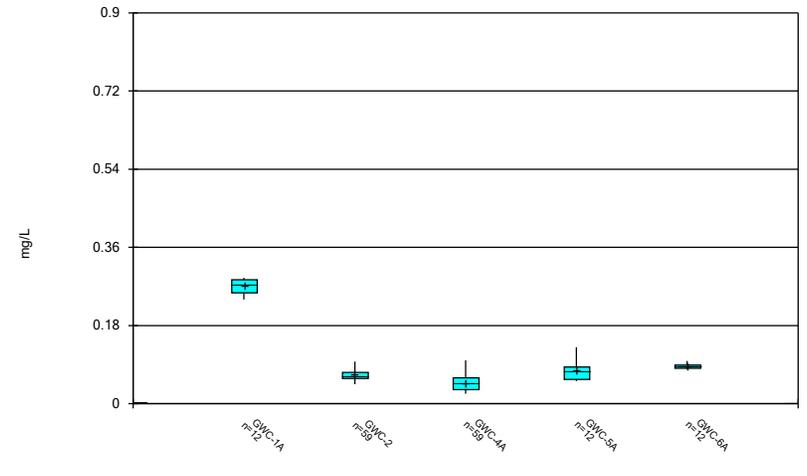
FIGURE B.

Box & Whiskers Plot



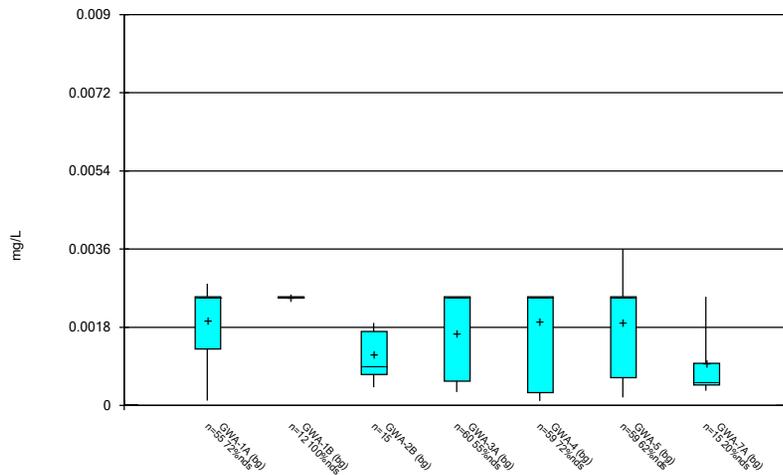
Constituent: Barium Analysis Run 5/2/2025 12:25 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



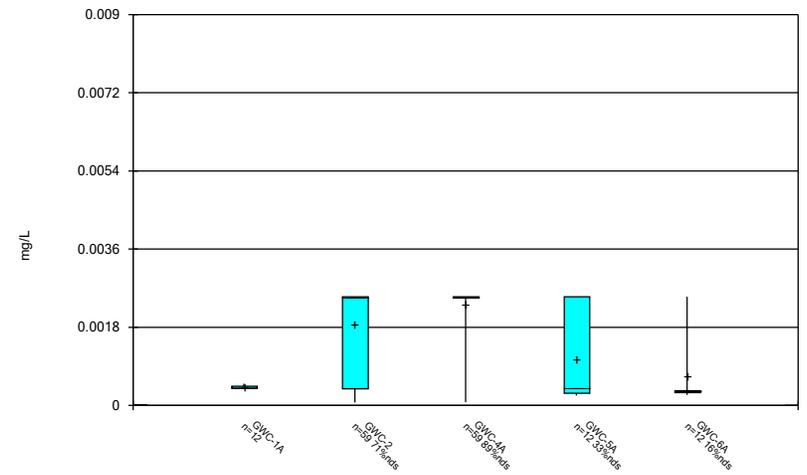
Constituent: Barium Analysis Run 5/2/2025 12:25 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



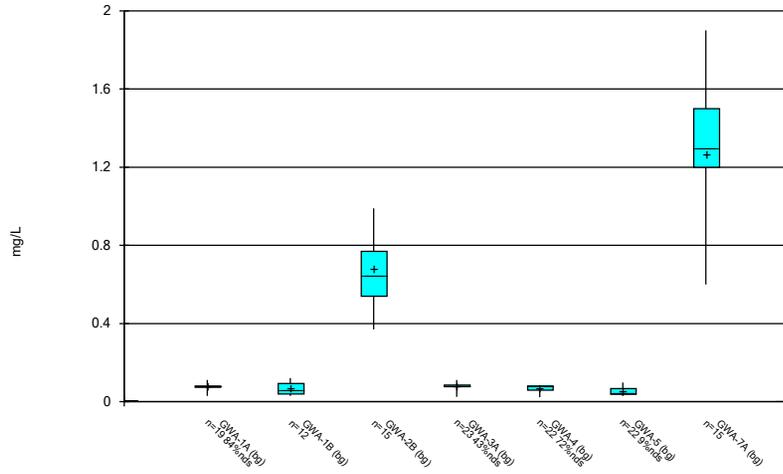
Constituent: Beryllium Analysis Run 5/2/2025 12:25 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



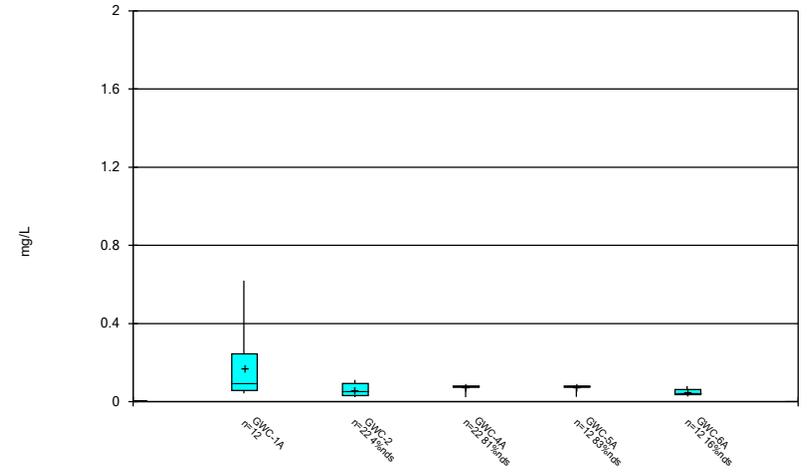
Constituent: Beryllium Analysis Run 5/2/2025 12:25 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



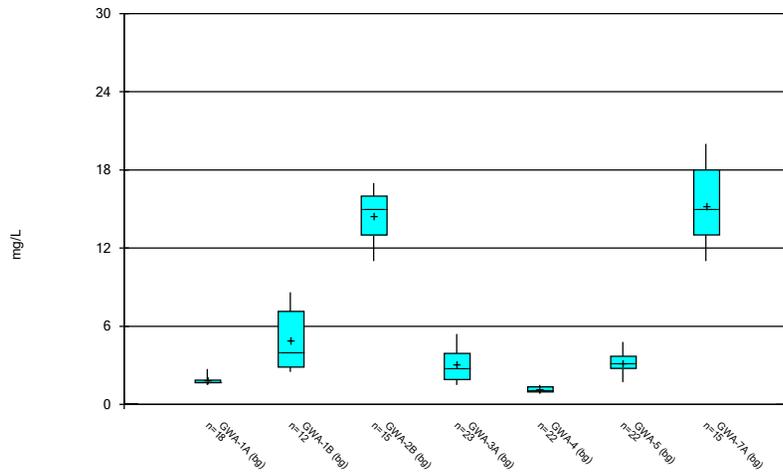
Constituent: Boron Analysis Run 5/2/2025 12:25 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



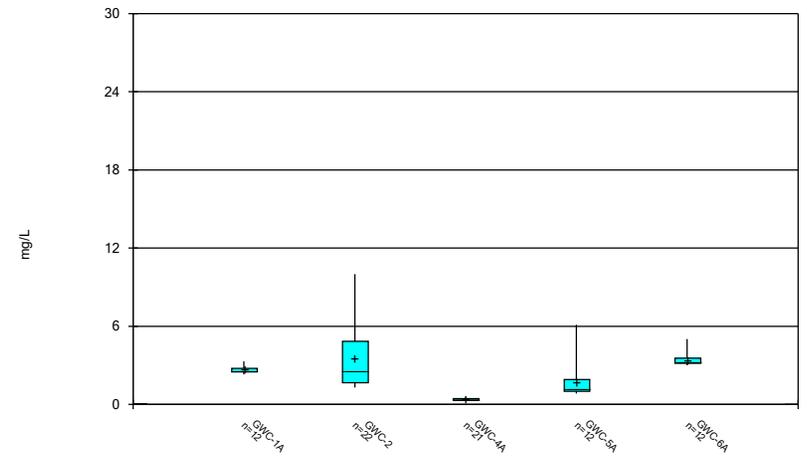
Constituent: Boron Analysis Run 5/2/2025 12:25 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



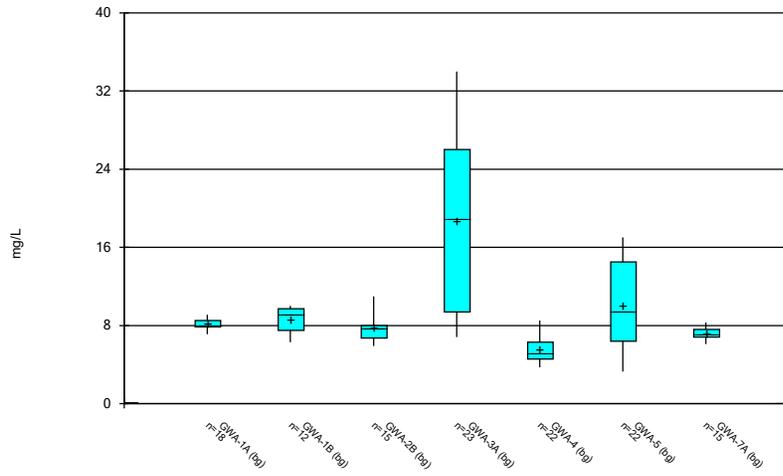
Constituent: Calcium Analysis Run 5/2/2025 12:25 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



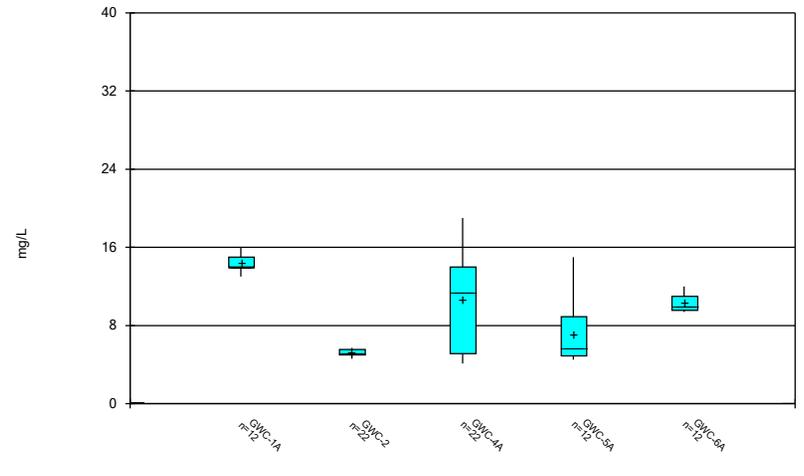
Constituent: Calcium Analysis Run 5/2/2025 12:25 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



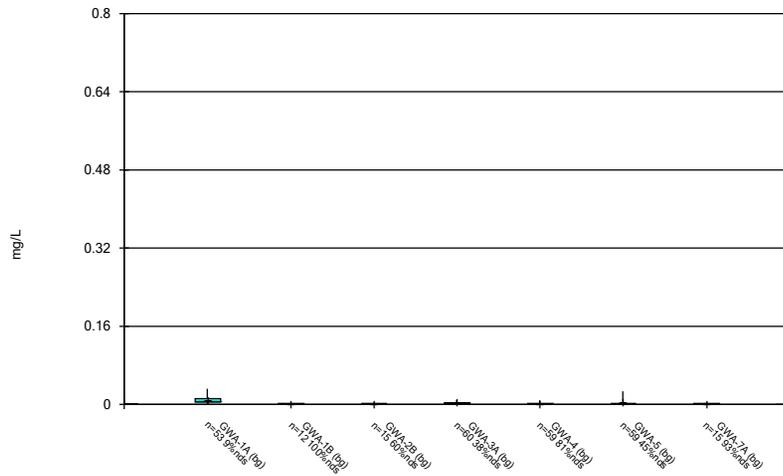
Constituent: Chloride Analysis Run 5/2/2025 12:25 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



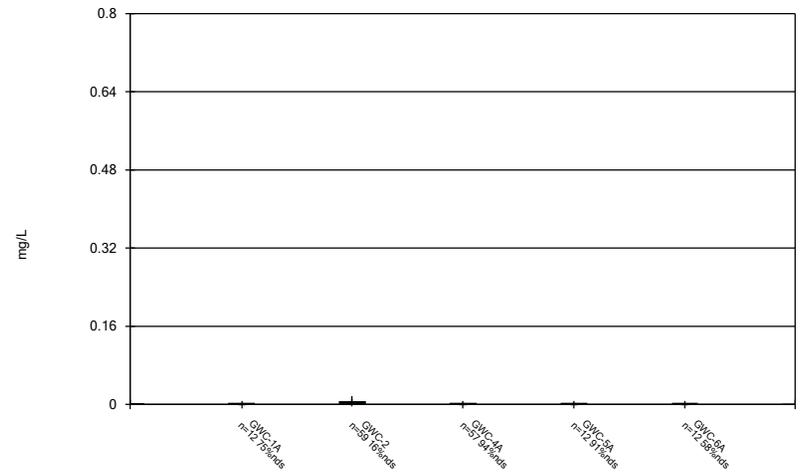
Constituent: Chloride Analysis Run 5/2/2025 12:25 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



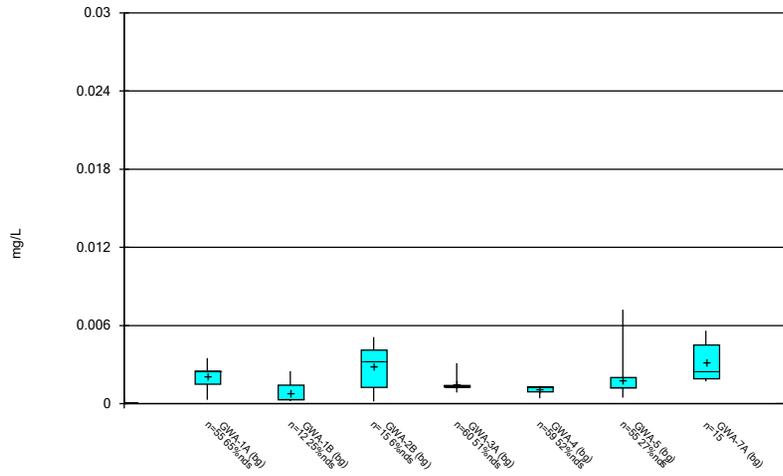
Constituent: Chromium Analysis Run 5/2/2025 12:25 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



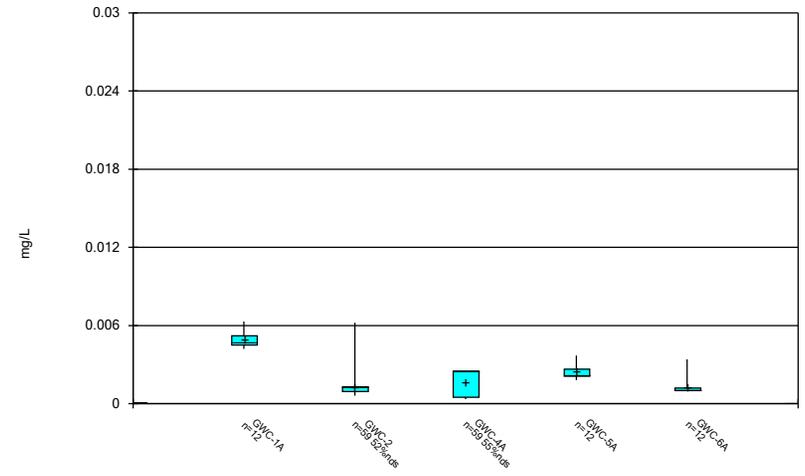
Constituent: Chromium Analysis Run 5/2/2025 12:25 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



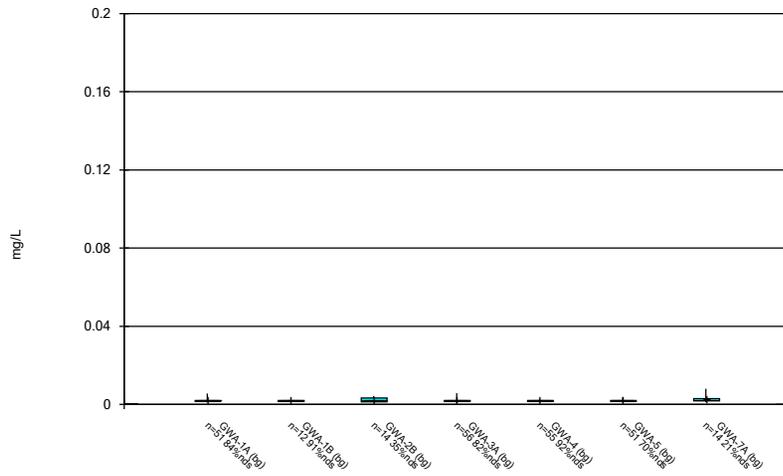
Constituent: Cobalt Analysis Run 5/2/2025 12:25 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



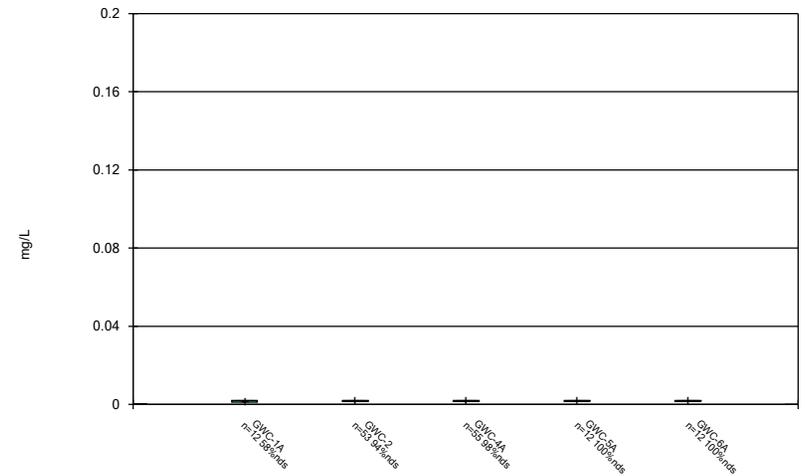
Constituent: Cobalt Analysis Run 5/2/2025 12:25 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



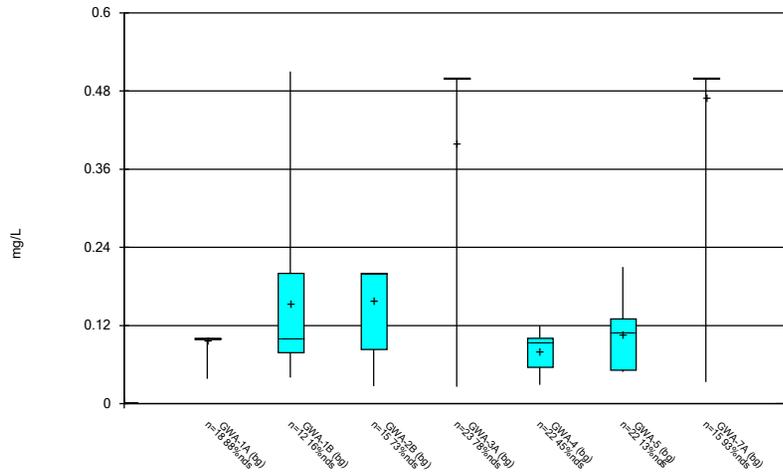
Constituent: Copper Analysis Run 5/2/2025 12:25 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



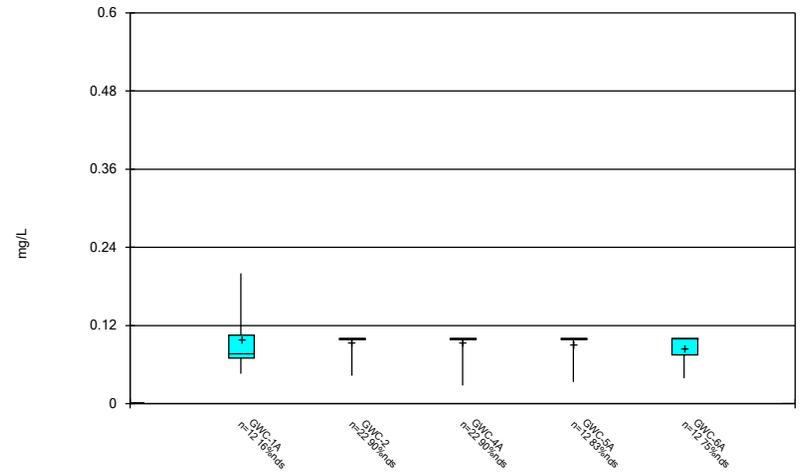
Constituent: Copper Analysis Run 5/2/2025 12:25 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



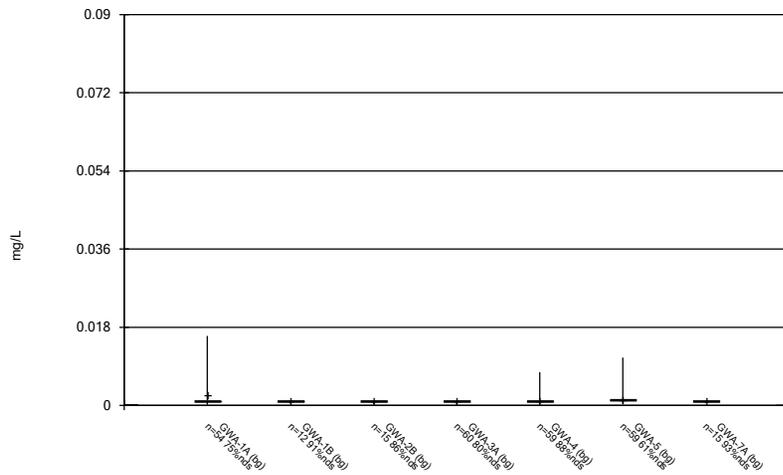
Constituent: Fluoride Analysis Run 5/2/2025 12:25 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



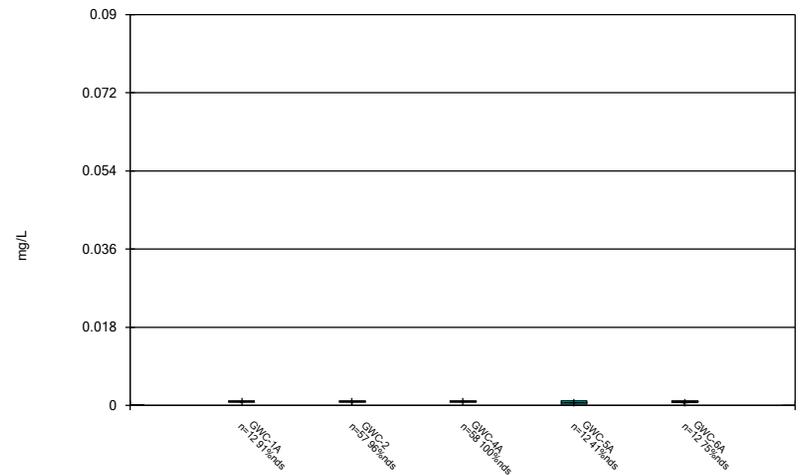
Constituent: Fluoride Analysis Run 5/2/2025 12:25 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



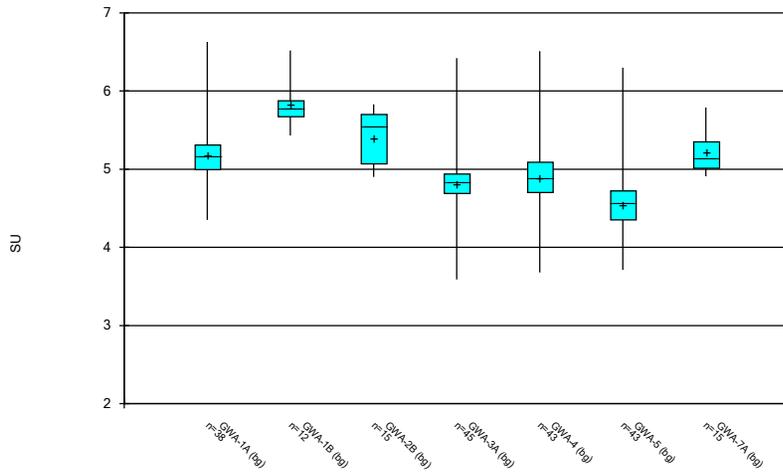
Constituent: Lead Analysis Run 5/2/2025 12:25 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



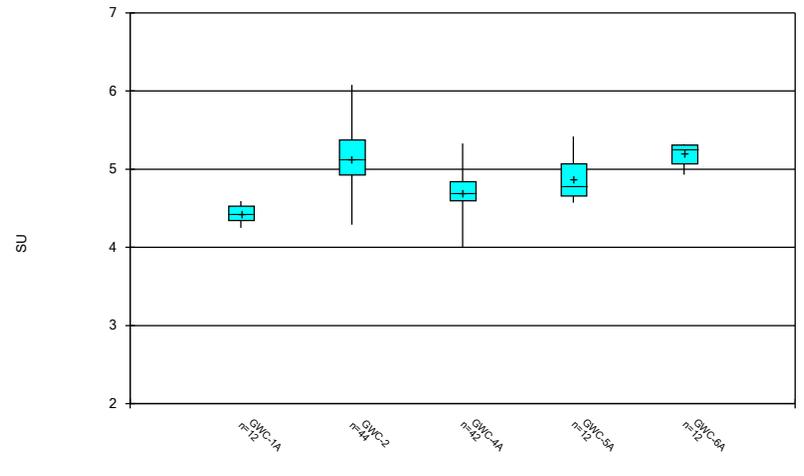
Constituent: Lead Analysis Run 5/2/2025 12:25 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



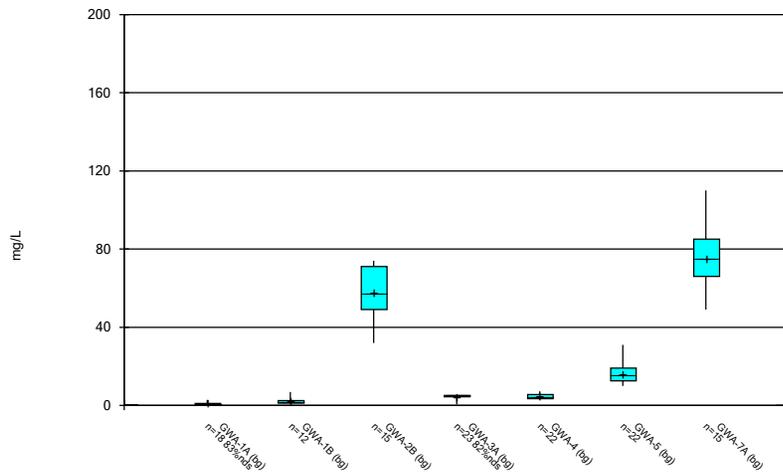
Constituent: pH, Field Analysis Run 5/2/2025 12:25 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



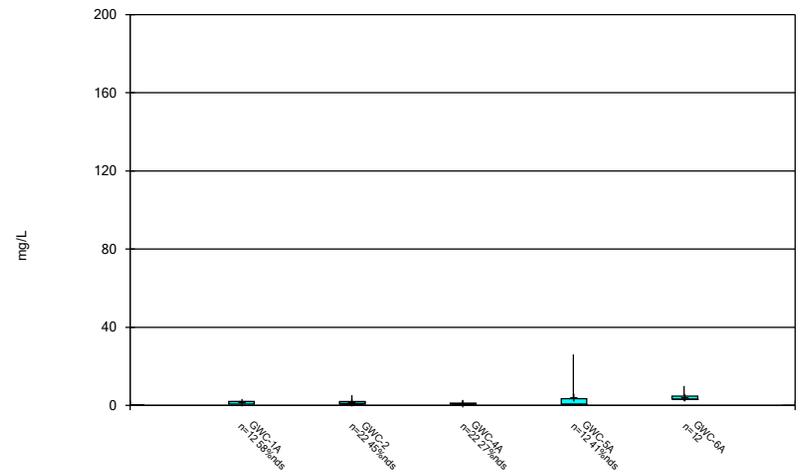
Constituent: pH, Field Analysis Run 5/2/2025 12:25 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



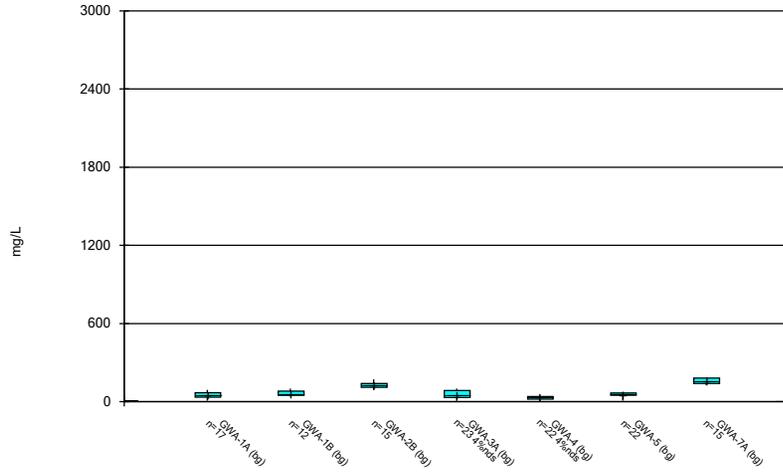
Constituent: Sulfate Analysis Run 5/2/2025 12:25 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



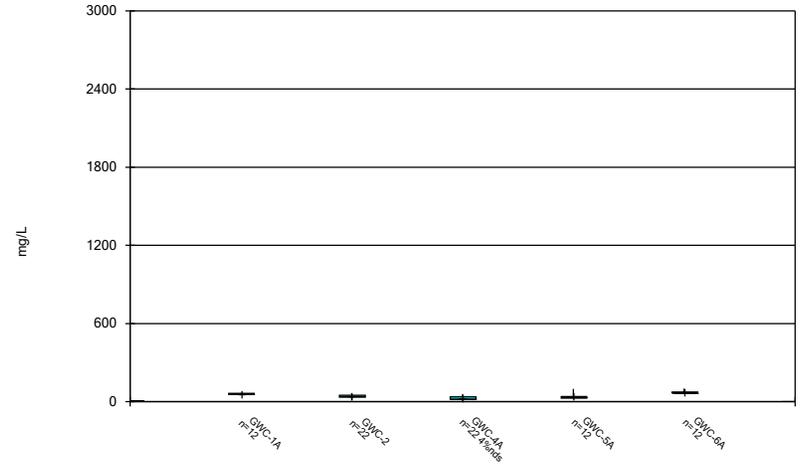
Constituent: Sulfate Analysis Run 5/2/2025 12:25 PM
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



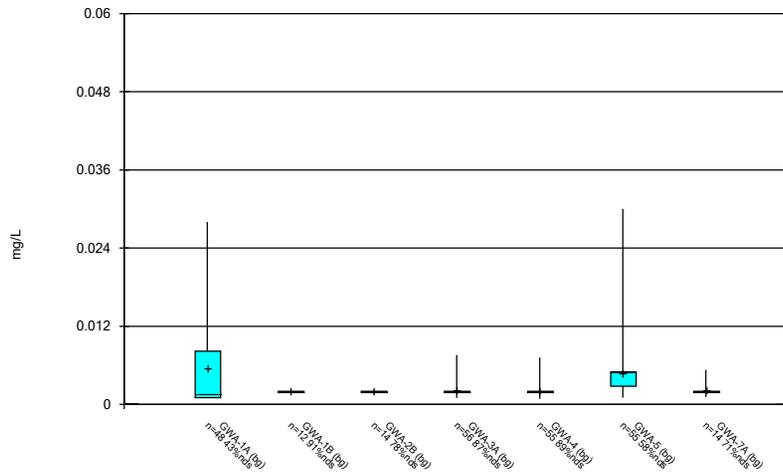
Constituent: TDS Analysis Run 5/2/2025 12:25 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



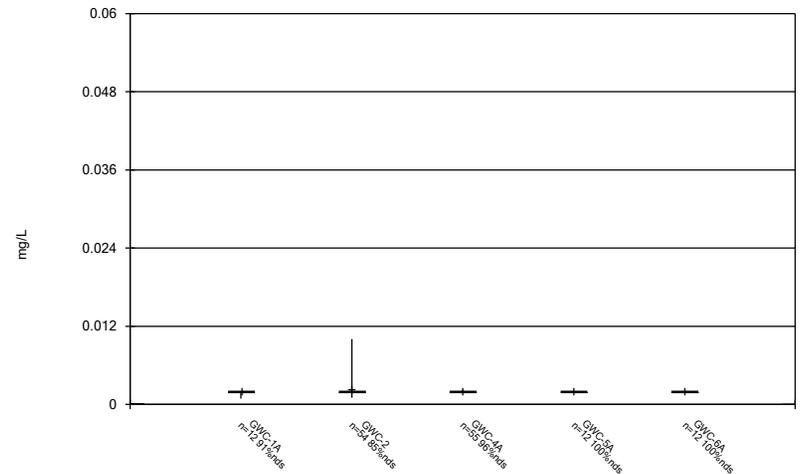
Constituent: TDS Analysis Run 5/2/2025 12:25 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



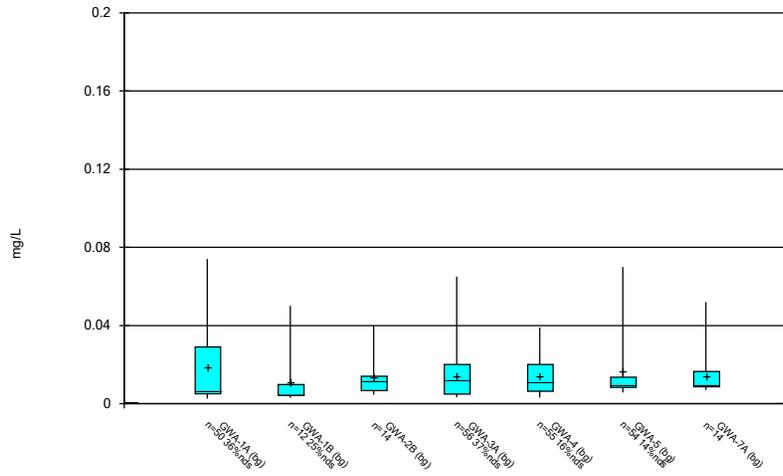
Constituent: Vanadium Analysis Run 5/2/2025 12:25 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



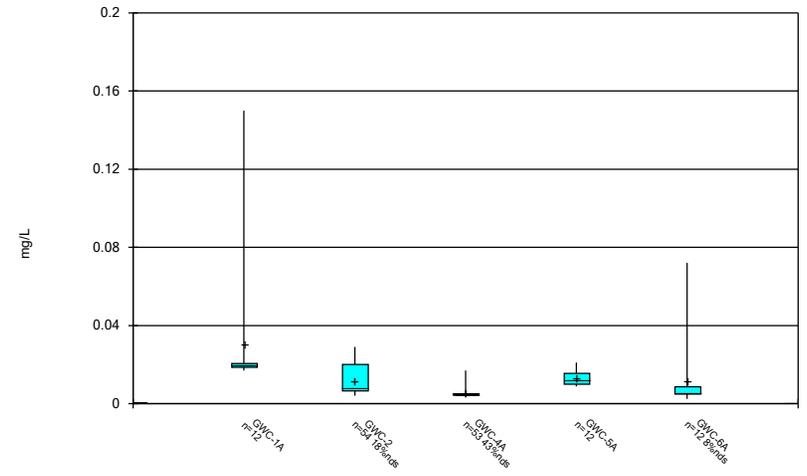
Constituent: Vanadium Analysis Run 5/2/2025 12:25 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



Constituent: Zinc Analysis Run 5/2/2025 12:25 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Box & Whiskers Plot



Constituent: Zinc Analysis Run 5/2/2025 12:25 PM
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

FIGURE C.

Tukey's Outlier Test - Upgradient Wells - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 Printed 5/2/2025, 12:36 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Barium (mg/L)	GWA-1A,GWA-1B,GWA...	Yes	0.18,0.18,0.18,0.18,0.18,0.12,0.12,0.12,0.12,0.12	NP	NaN	276	0.06692	0.06464	x^6	ChiSquared
Boron (mg/L)	GWA-1A,GWA-1B,GWA...	Yes	0.76,0.77,0.83,0.65,0.65,0.64,0.73,0.57,0.68,0.54	NP	NaN	128	0.281	0.4294	x^6	ChiSquared
Calcium (mg/L)	GWA-1A,GWA-1B,GWA...	Yes	26,17,17,16,16,16,15,15,15,14,14,14,12,12,12,1	NP	NaN	128	5.668	5.79	x^6	ChiSquared
Chloride (mg/L)	GWA-1A,GWA-1B,GWA...	Yes	14,14,15,15,15,15,16,16,16,19,19,20,22,23,23,26,3	NP	NaN	127	9.828	6.108	x^6	ChiSquared
Fluoride (mg/L)	GWA-1A,GWA-1B,GWA...	Yes	0.51,0.13,0.13,0.13,0.13,0.13,0.19,0.21,0.21,0.24	NP	NaN	127	0.09864	0.04971	x^6	ChiSquared
pH, Field (SU)	GWA-1A,GWA-1B,GWA...	Yes	6.63,6.15,6.52,6.42,6.51,6.3	NP	NaN	211	4.966	0.5103	x^6	ChiSquared
Sulfate (mg/L)	GWA-1A,GWA-1B,GWA...	Yes	73,73,74,74,71,59,57,52,49,49,54,54,54,42,42,65,6	NP	NaN	127	20.96	27.22	x^3	ChiSquared
TDS (mg/L)	GWA-1A,GWA-1B,GWA...	Yes	2200	NP	NaN	127	88.07	194.3	x^2	ChiSquared
Zinc (mg/L)	GWA-1A,GWA-1B,GWA...	Yes	0.043,0.035,0.035,0.058,0.051,0.051,0.02,0.02,0.0	NP	NaN	256	0.01405	0.01825	x^6	ChiSquared

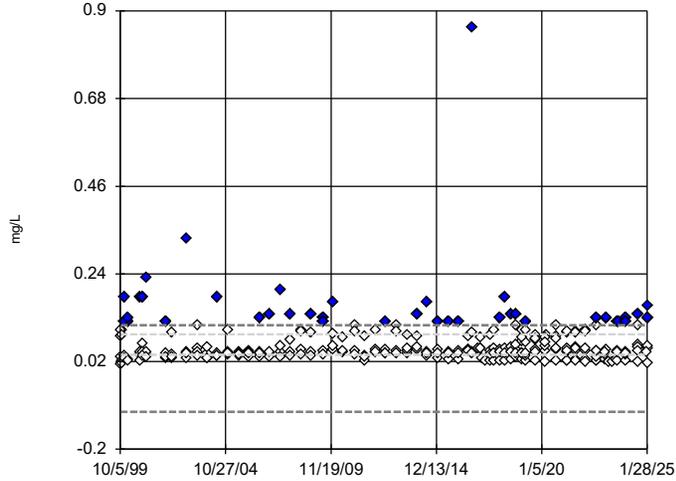
Tukey's Outlier Test - Upgradient Wells - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 Printed 5/2/2025, 12:36 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Barium (mg/L)	GWA-1A,GWA-1B,GWA...	Yes	0.18,0.18,0.18,0.18,0.18,0.18,0.12,0.12,0.12,0.12,0.12	NP	NaN	276	0.06692	0.06464	x^6	ChiSquared
Beryllium (mg/L)	GWA-1A,GWA-1B,GWA...	n/a	n/a	NP	NaN	276	0.001822	0.001053	unknown	ChiSquared
Boron (mg/L)	GWA-1A,GWA-1B,GWA...	Yes	0.76,0.77,0.83,0.65,0.65,0.64,0.73,0.57,0.68,0.54	NP	NaN	128	0.281	0.4294	x^6	ChiSquared
Calcium (mg/L)	GWA-1A,GWA-1B,GWA...	Yes	26,17,17,16,16,16,16,15,15,15,14,14,14,12,12,12,1	NP	NaN	128	5.668	5.79	x^6	ChiSquared
Chloride (mg/L)	GWA-1A,GWA-1B,GWA...	Yes	14,14,15,15,15,15,16,16,16,19,19,20,22,23,23,26,3	NP	NaN	127	9.828	6.108	x^6	ChiSquared
Chromium (mg/L)	GWA-1A,GWA-1B,GWA...	n/a	n/a	NP	NaN	276	0.004501	0.009371	unknown	ChiSquared
Cobalt (mg/L)	GWA-1A,GWA-1B,GWA...	n/a	n/a	NP	NaN	276	0.002289	0.002098	unknown	ChiSquared
Copper (mg/L)	GWA-1A,GWA-1B,GWA...	n/a	n/a	NP	NaN	257	0.002208	0.001383	unknown	ChiSquared
Fluoride (mg/L)	GWA-1A,GWA-1B,GWA...	Yes	0.51,0.13,0.13,0.13,0.13,0.13,0.19,0.21,0.21,0.24	NP	NaN	127	0.09864	0.04971	x^6	ChiSquared
Lead (mg/L)	GWA-1A,GWA-1B,GWA...	n/a	n/a	NP	NaN	276	0.001583	0.005226	unknown	ChiSquared
pH, Field (SU)	GWA-1A,GWA-1B,GWA...	Yes	6.63,6.15,6.52,6.42,6.51,6.3	NP	NaN	211	4.966	0.5103	x^6	ChiSquared
Sulfate (mg/L)	GWA-1A,GWA-1B,GWA...	Yes	73,73,74,74,71,59,57,52,49,49,54,54,54,42,42,65,6	NP	NaN	127	20.96	27.22	x^3	ChiSquared
TDS (mg/L)	GWA-1A,GWA-1B,GWA...	Yes	2200	NP	NaN	127	88.07	194.3	x^2	ChiSquared
Vanadium (mg/L)	GWA-1A,GWA-1B,GWA...	n/a	n/a	NP	NaN	256	0.003359	0.005632	unknown	ChiSquared
Zinc (mg/L)	GWA-1A,GWA-1B,GWA...	Yes	0.043,0.035,0.035,0.058,0.051,0.051,0.02,0.02,0.0	NP	NaN	256	0.01405	0.01825	x^6	ChiSquared

Tukey's Outlier Screening, Pooled Background

GWA-1A,GWA-1B,GWA-2B,GWA-3A,GWA-4,GWA...



n = 276

Outliers are drawn as solid. Tukey's method selected by user.

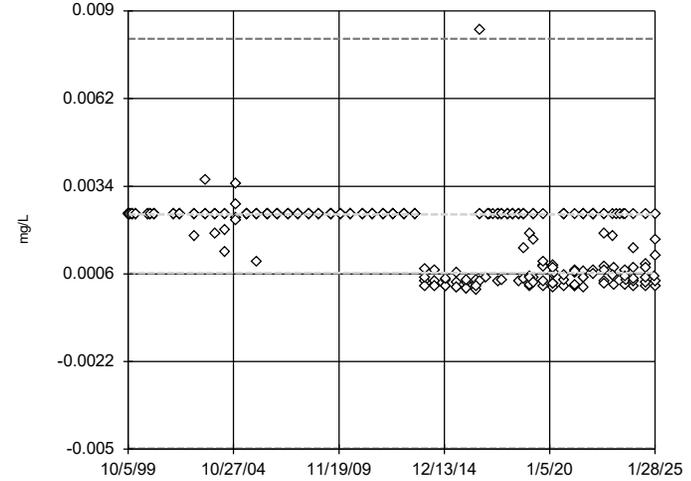
Data were x*6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.1114, low cutoff = -0.1062, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/2/2025 12:32 PM View: Tukey's Outlier - Upgradient
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Tukey's Outlier Screening, Pooled Background

GWA-1A,GWA-1B,GWA-2B,GWA-3A,GWA-4,GWA...



n = 276

No outliers found. Tukey's method selected by user.

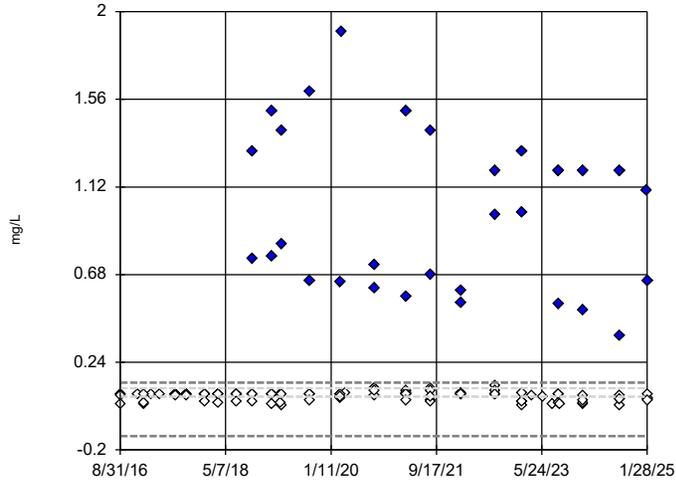
Data were x*5 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Beryllium Analysis Run 5/2/2025 12:32 PM View: Tukey's Outlier - Upgradient
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Tukey's Outlier Screening, Pooled Background

GWA-1A,GWA-1B,GWA-2B,GWA-3A,GWA-4,GWA...



n = 128

Outliers are drawn as solid. Tukey's method selected by user.

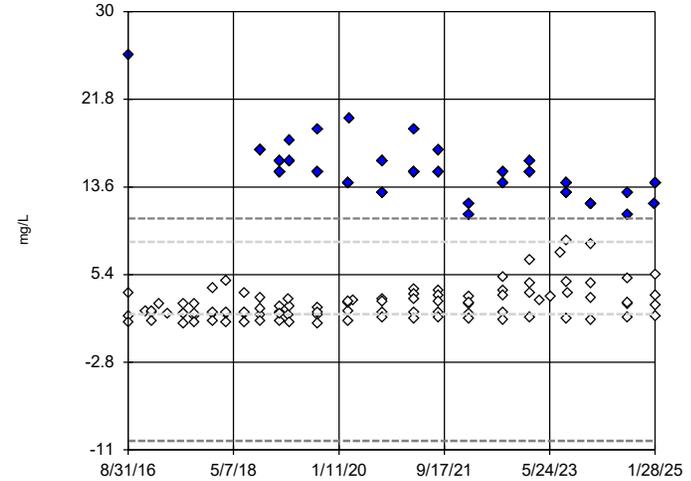
Data were x*6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.1376, low cutoff = -0.1305, based on IQR multiplier of 3.

Constituent: Boron Analysis Run 5/2/2025 12:32 PM View: Tukey's Outlier - Upgradient
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Tukey's Outlier Screening, Pooled Background

GWA-1A,GWA-1B,GWA-2B,GWA-3A,GWA-4,GWA...



n = 128

Outliers are drawn as solid. Tukey's method selected by user.

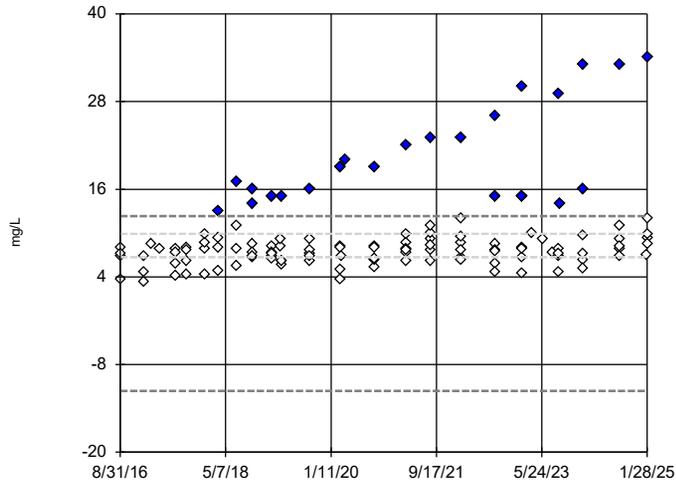
Data were x*6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 10.65, low cutoff = -10.16, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 5/2/2025 12:32 PM View: Tukey's Outlier - Upgradient
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Tukey's Outlier Screening, Pooled Background

GWA-1A,GWA-1B,GWA-2B,GWA-3A,GWA-4,GWA...

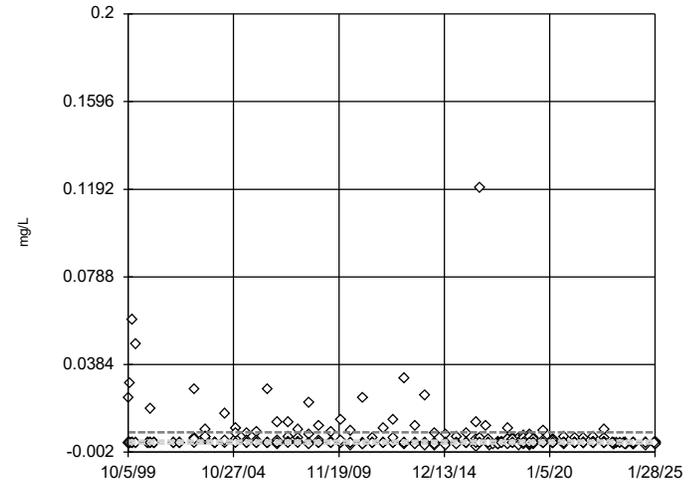


n = 127
 Outliers are drawn as solid.
 Tukey's method selected by user.
 Data were x⁶ transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 12.32, low cutoff = -11.62, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 5/2/2025 12:32 PM View: Tukey's Outlier - Upgradient
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Tukey's Outlier Screening, Pooled Background

GWA-1A,GWA-1B,GWA-2B,GWA-3A,GWA-4,GWA...

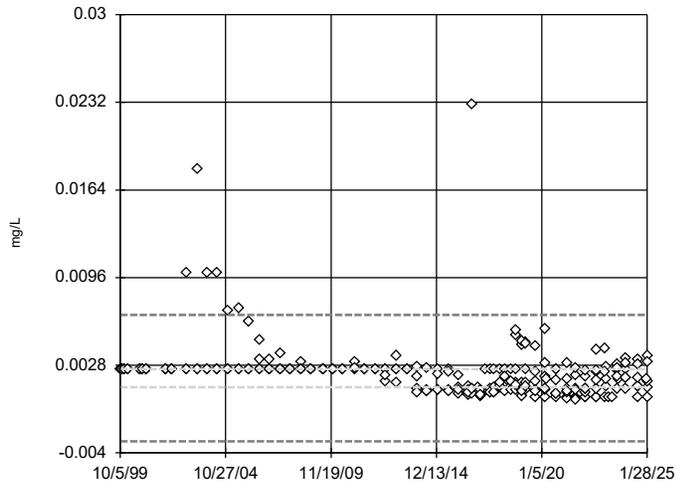


n = 276
 No outliers found.
 Tukey's method selected by user.
 Data were x⁶ transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Chromium Analysis Run 5/2/2025 12:32 PM View: Tukey's Outlier - Upgradient
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Tukey's Outlier Screening, Pooled Background

GWA-1A,GWA-1B,GWA-2B,GWA-3A,GWA-4,GWA...

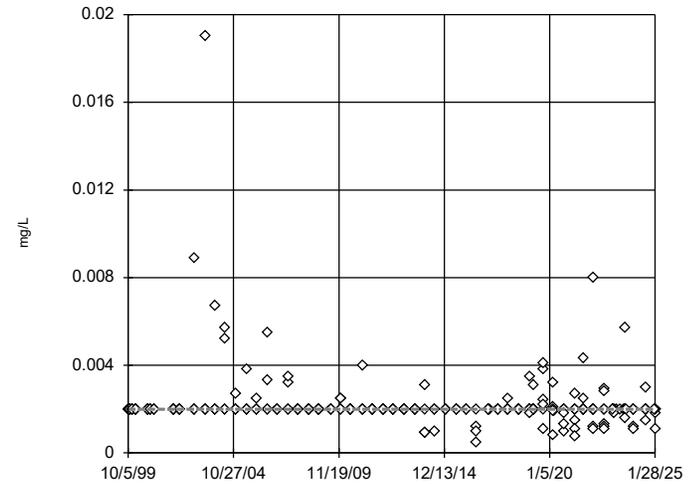


n = 276
 No outliers found.
 Tukey's method selected by user.
 Data were x⁵ transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Cobalt Analysis Run 5/2/2025 12:32 PM View: Tukey's Outlier - Upgradient
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Tukey's Outlier Screening, Pooled Background

GWA-1A,GWA-1B,GWA-2B,GWA-3A,GWA-4,GWA...

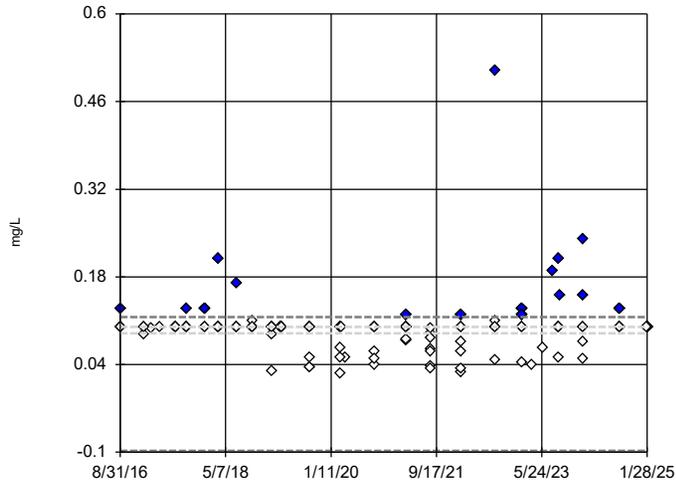


n = 257
 No outliers found.
 Tukey's method selected by user.
 Data were x⁶ transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Copper Analysis Run 5/2/2025 12:32 PM View: Tukey's Outlier - Upgradient
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Tukey's Outlier Screening, Pooled Background

GWA-1A,GWA-1B,GWA-2B,GWA-3A,GWA-4,GWA...

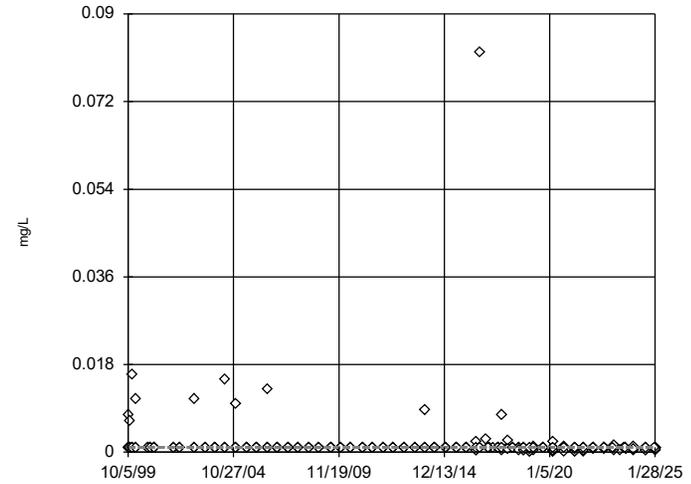


n = 127
 Outliers are drawn as solid. Tukey's method selected by user.
 Data were x⁶ transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.1158, low cutoff = -0.09778, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/2/2025 12:32 PM View: Tukey's Outlier - Upgradient
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Tukey's Outlier Screening, Pooled Background

GWA-1A,GWA-1B,GWA-2B,GWA-3A,GWA-4,GWA...

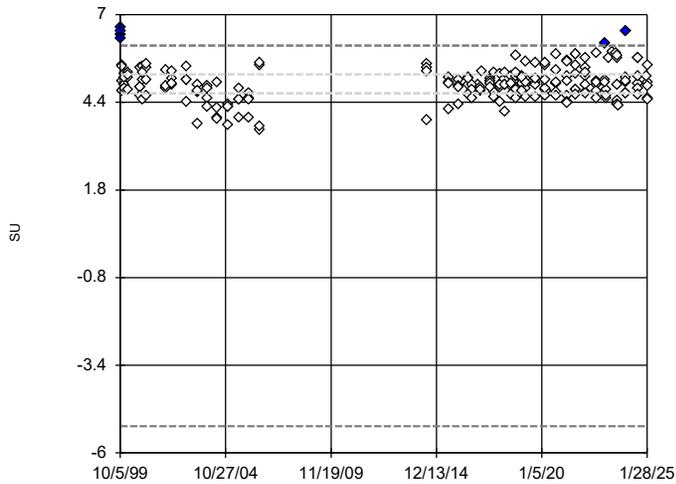


n = 276
 No outliers found. Tukey's method selected by user.
 Data were x⁴ transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 5/2/2025 12:32 PM View: Tukey's Outlier - Upgradient
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Tukey's Outlier Screening, Pooled Background

GWA-1A,GWA-1B,GWA-2B,GWA-3A,GWA-4,GWA...

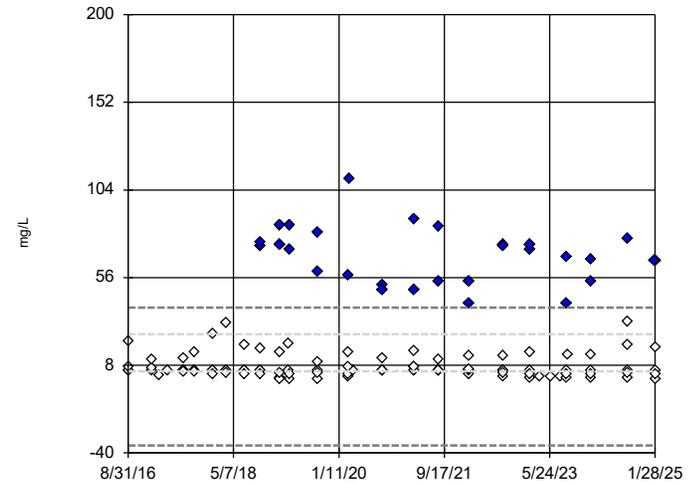


n = 211
 Outliers are drawn as solid. Tukey's method selected by user.
 Data were x⁶ transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 6.085, low cutoff = -5.206, based on IQR multiplier of 3.

Constituent: pH, Field Analysis Run 5/2/2025 12:32 PM View: Tukey's Outlier - Upgradient
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Tukey's Outlier Screening, Pooled Background

GWA-1A,GWA-1B,GWA-2B,GWA-3A,GWA-4,GWA...

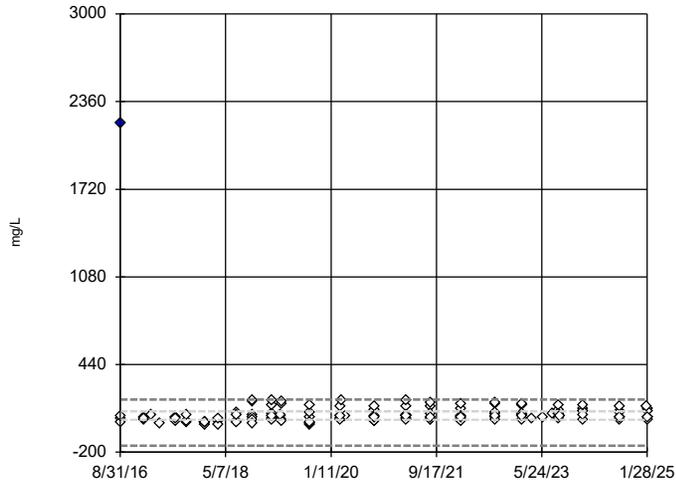


n = 127
 Outliers are drawn as solid. Tukey's method selected by user.
 Data were cube transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 39.62, low cutoff = -35.95, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 5/2/2025 12:32 PM View: Tukey's Outlier - Upgradient
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Tukey's Outlier Screening, Pooled Background

GWA-1A,GWA-1B,GWA-2B,GWA-3A,GWA-4,GWA...



n = 127

Outlier is drawn as solid. Tukey's method selected by user.

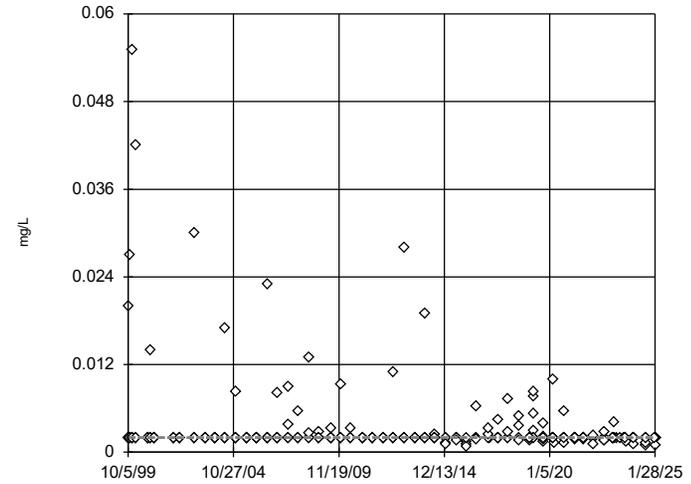
Data were square transformed to achieve best W statistic (graph shown in original units).

High cutoff = 185.2, low cutoff = -152.8, based on IQR multiplier of 3.

Constituent: TDS Analysis Run 5/2/2025 12:32 PM View: Tukey's Outlier - Upgradient
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Tukey's Outlier Screening, Pooled Background

GWA-1A,GWA-1B,GWA-2B,GWA-3A,GWA-4,GWA...



n = 256

No outliers found. Tukey's method selected by user.

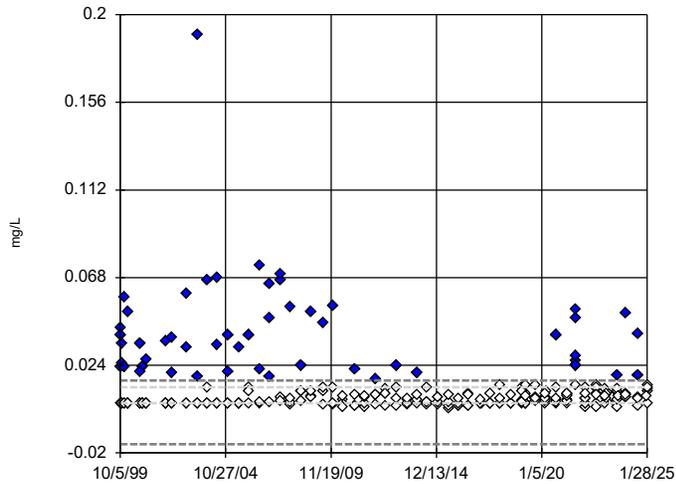
Data were x^6 transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Vanadium Analysis Run 5/2/2025 12:32 PM View: Tukey's Outlier - Upgradient
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Tukey's Outlier Screening, Pooled Background

GWA-1A,GWA-1B,GWA-2B,GWA-3A,GWA-4,GWA...



n = 256

Outliers are drawn as solid. Tukey's method selected by user.

Data were x^6 transformed to achieve best W statistic (graph shown in original units).

High cutoff = 0.01637, low cutoff = -0.0156, based on IQR multiplier of 3.

Constituent: Zinc Analysis Run 5/2/2025 12:32 PM View: Tukey's Outlier - Upgradient
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

FIGURE D.

Upgradient Wells Trend Test - Significant Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 Printed 5/5/2025, 12:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-1A (bg)	-0.002241	-5.053	-2.58	Yes	55	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-3A (bg)	0.00218	8.208	2.58	Yes	60	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	0.0009892	6.967	2.58	Yes	59	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-7A (bg)	-0.009587	-72	-53	Yes	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-1A (bg)	0	-3.471	-2.58	Yes	55	72.73	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-3A (bg)	-0.00003305	-4.109	-2.58	Yes	60	55	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-4 (bg)	0	-3.779	-2.58	Yes	59	72.88	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-5 (bg)	0	-3.889	-2.58	Yes	59	62.71	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2B (bg)	-0.5163	-57	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-3A (bg)	0.4604	231	98	Yes	23	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-4 (bg)	0.06737	133	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-3A (bg)	3.544	245	98	Yes	23	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-1A (bg)	0	-4.179	-2.58	Yes	55	65.45	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-3A (bg)	0	3.036	2.58	Yes	60	51.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-4 (bg)	-0.000009468	-4.769	-2.58	Yes	59	52.54	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-7A (bg)	-0.0005219	-91	-53	Yes	15	0	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-5 (bg)	0	-3.664	-2.58	Yes	51	70.59	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-1A (bg)	0	-3.293	-2.58	Yes	54	75.93	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-3A (bg)	0	-4.671	-2.58	Yes	60	80	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-5 (bg)	-0.000007523	-5.566	-2.58	Yes	59	61.02	n/a	n/a	0.01	NP
pH, Field (SU)	GWA-3A (bg)	-0.0146	-3.34	-2.58	Yes	45	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-1B (bg)	-0.8965	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-3A (bg)	9.558	172	98	Yes	23	4.348	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-7A (bg)	-7.9	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWA-5 (bg)	0	-4.257	-2.58	Yes	55	58.18	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-1A (bg)	-0.0003674	-2.882	-2.58	Yes	50	36	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-4 (bg)	-0.0005431	-3.203	-2.58	Yes	55	16.36	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-5 (bg)	-0.0001419	-3.257	-2.58	Yes	54	14.81	n/a	n/a	0.01	NP

Upgradient Wells Trend Test - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 Printed 5/5/2025, 12:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	GWA-1A (bg)	-0.002241	-5.053	-2.58	Yes	55	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-1B (bg)	-0.0008813	-14	-38	No	12	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-2B (bg)	0	3	53	No	15	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-3A (bg)	0.00218	8.208	2.58	Yes	60	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-4 (bg)	0.0009892	6.967	2.58	Yes	59	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-5 (bg)	0.0007181	1.273	2.58	No	59	0	n/a	n/a	0.01	NP
Barium (mg/L)	GWA-7A (bg)	-0.009587	-72	-53	Yes	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-1A (bg)	0	-3.471	-2.58	Yes	55	72.73	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-1B (bg)	0	0	38	No	12	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-2B (bg)	-0.0000246	-7	-53	No	15	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-3A (bg)	-0.00003305	-4.109	-2.58	Yes	60	55	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-4 (bg)	0	-3.779	-2.58	Yes	59	72.88	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-5 (bg)	0	-3.889	-2.58	Yes	59	62.71	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWA-7A (bg)	-0.00006577	-25	-53	No	15	20	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-1A (bg)	0	15	74	No	19	84.21	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-1B (bg)	-0.01732	-36	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2B (bg)	-0.03614	-38	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-3A (bg)	0	-20	-98	No	23	43.48	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-4 (bg)	0	-46	-92	No	22	72.73	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-5 (bg)	-0.0004896	-14	-92	No	22	9.091	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-7A (bg)	-0.0602	-42	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-1A (bg)	0	2	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-1B (bg)	0.1326	1	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2B (bg)	-0.5163	-57	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-3A (bg)	0.4604	231	98	Yes	23	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-4 (bg)	0.06737	133	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-5 (bg)	0.0282	19	92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-7A (bg)	-1.022	-47	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-1A (bg)	0.1129	60	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-1B (bg)	-0.479	-23	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2B (bg)	0.3681	36	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-3A (bg)	3.544	245	98	Yes	23	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-4 (bg)	0.3023	90	92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-5 (bg)	0.8229	73	92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-7A (bg)	0.1613	36	53	No	15	0	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-1A (bg)	-0.0002471	-1.988	-2.58	No	53	9.434	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-1B (bg)	0	0	38	No	12	100	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-2B (bg)	0	10	53	No	15	60	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-3A (bg)	0	-0.1447	-2.58	No	60	38.33	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-4 (bg)	0	-1.893	-2.58	No	59	81.36	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-5 (bg)	0	-2.138	-2.58	No	59	45.76	n/a	n/a	0.01	NP
Chromium (mg/L)	GWA-7A (bg)	0	-8	-53	No	15	93.33	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-1A (bg)	0	-4.179	-2.58	Yes	55	65.45	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-1B (bg)	0.00002615	24	38	No	12	25	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-2B (bg)	-0.0002069	-17	-53	No	15	6.667	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-3A (bg)	0	3.036	2.58	Yes	60	51.67	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-4 (bg)	-0.000009468	-4.769	-2.58	Yes	59	52.54	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-5 (bg)	-0.00002792	-2.333	-2.58	No	55	27.27	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-7A (bg)	-0.0005219	-91	-53	Yes	15	0	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-1A (bg)	0	-1.018	-2.58	No	51	84.31	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-1B (bg)	0	11	38	No	12	91.67	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-2B (bg)	-0.00002249	-13	-48	No	14	35.71	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-3A (bg)	0	-0.4886	-2.58	No	56	82.14	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-4 (bg)	0	0.04856	2.58	No	55	92.73	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-5 (bg)	0	-3.664	-2.58	Yes	51	70.59	n/a	n/a	0.01	NP
Copper (mg/L)	GWA-7A (bg)	-0.0001619	-25	-48	No	14	21.43	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-1A (bg)	0	1	68	No	18	88.89	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-1B (bg)	0.01443	13	38	No	12	16.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-2B (bg)	0	10	53	No	15	73.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-3A (bg)	0	-36	-98	No	23	78.26	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-4 (bg)	0	-43	-92	No	22	45.45	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-5 (bg)	0	7	92	No	22	13.64	n/a	n/a	0.01	NP
Fluoride (mg/L)	GWA-7A (bg)	0	0	53	No	15	93.33	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-1A (bg)	0	-3.293	-2.58	Yes	54	75.93	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-1B (bg)	0	-1	-38	No	12	91.67	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-2B (bg)	0	13	53	No	15	86.67	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-3A (bg)	0	-4.671	-2.58	Yes	60	80	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-4 (bg)	0	-1.355	-2.58	No	59	88.14	n/a	n/a	0.01	NP

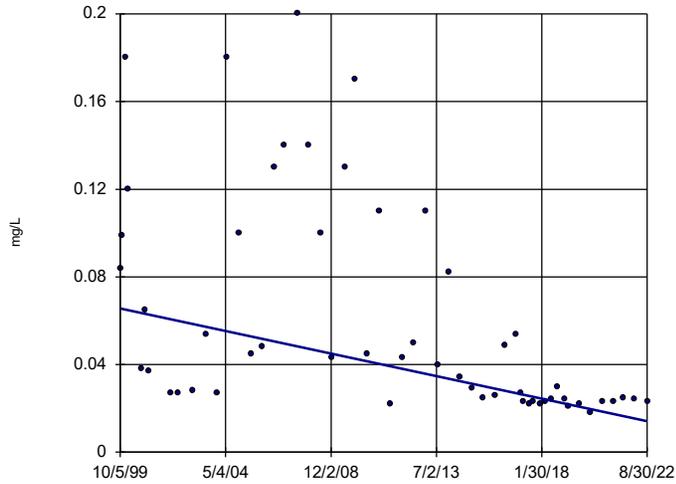
Upgradient Wells Trend Test - All Results

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 Printed 5/5/2025, 12:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Lead (mg/L)	GWA-5 (bg)	-0.000007523	-5.566	-2.58	Yes	59	61.02	n/a	n/a	0.01	NP
Lead (mg/L)	GWA-7A (bg)	0	-10	-53	No	15	93.33	n/a	n/a	0.01	NP
pH, Field (SU)	GWA-1A (bg)	-0.005616	-58	-206	No	38	0	n/a	n/a	0.01	NP
pH, Field (SU)	GWA-1B (bg)	0.007733	1	38	No	12	0	n/a	n/a	0.01	NP
pH, Field (SU)	GWA-2B (bg)	0.01204	4	53	No	15	0	n/a	n/a	0.01	NP
pH, Field (SU)	GWA-3A (bg)	-0.0146	-3.34	-2.58	Yes	45	0	n/a	n/a	0.01	NP
pH, Field (SU)	GWA-4 (bg)	-0.0198	-2.366	-2.58	No	43	0	n/a	n/a	0.01	NP
pH, Field (SU)	GWA-5 (bg)	0	-0.04188	-2.58	No	43	0	n/a	n/a	0.01	NP
pH, Field (SU)	GWA-7A (bg)	-0.04599	-37	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-1A (bg)	0	-8	-68	No	18	83.33	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-1B (bg)	-0.8965	-50	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2B (bg)	-4.269	-41	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-3A (bg)	0	18	98	No	23	82.61	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-4 (bg)	-0.08576	-42	-92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-5 (bg)	-0.2007	-20	-92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-7A (bg)	-2.858	-36	-53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-1A (bg)	0.8247	2	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-1B (bg)	5.032	20	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-2B (bg)	-5.134	-34	-53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-3A (bg)	9.558	172	98	Yes	23	4.348	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-4 (bg)	2.313	90	92	No	22	4.545	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-5 (bg)	0.5892	24	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-7A (bg)	-7.9	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWA-1A (bg)	0	-1.6	-2.58	No	48	43.75	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWA-1B (bg)	0	5	38	No	12	91.67	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWA-2B (bg)	0	0	48	No	14	78.57	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWA-3A (bg)	0	-1.533	-2.58	No	56	87.5	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWA-4 (bg)	0	-0.7809	-2.58	No	55	89.09	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWA-5 (bg)	0	-4.257	-2.58	Yes	55	58.18	n/a	n/a	0.01	NP
Vanadium (mg/L)	GWA-7A (bg)	0	-12	-48	No	14	71.43	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-1A (bg)	-0.0003674	-2.882	-2.58	Yes	50	36	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-1B (bg)	-0.0009859	-11	-38	No	12	25	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-2B (bg)	0.0009311	15	48	No	14	0	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-3A (bg)	-0.000171	-2.494	-2.58	No	56	37.5	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-4 (bg)	-0.0005431	-3.203	-2.58	Yes	55	16.36	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-5 (bg)	-0.0001419	-3.257	-2.58	Yes	54	14.81	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-7A (bg)	-0.00007046	-4	-48	No	14	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

GWA-1A (bg)

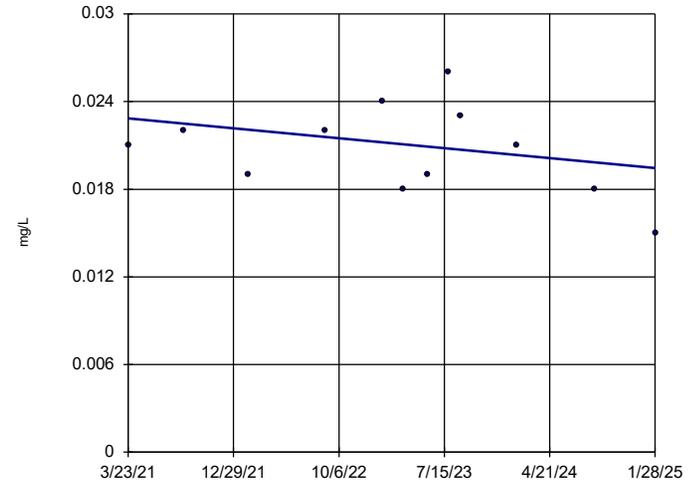


n = 55
 Slope = -0.002241 units per year.
 Mann-Kendall normal approx. = -5.053
 critical = -2.58
 Decreasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Barium Analysis Run 5/5/2025 12:04 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-1B (bg)

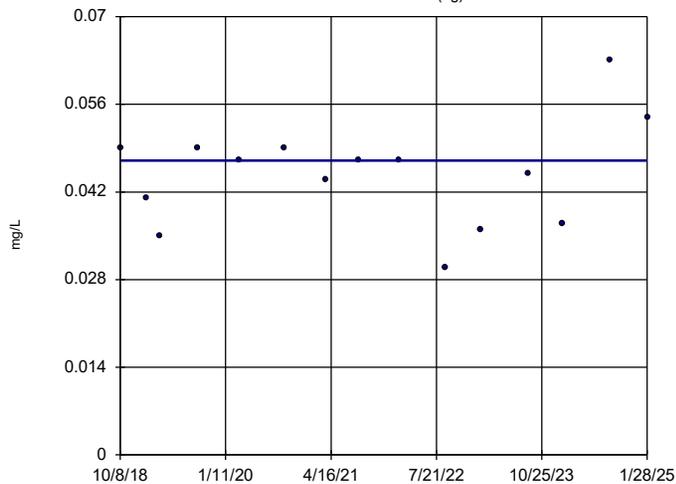


n = 12
 Slope = -0.0008813 units per year.
 Mann-Kendall statistic = -14
 critical = -38
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Barium Analysis Run 5/5/2025 12:04 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-2B (bg)

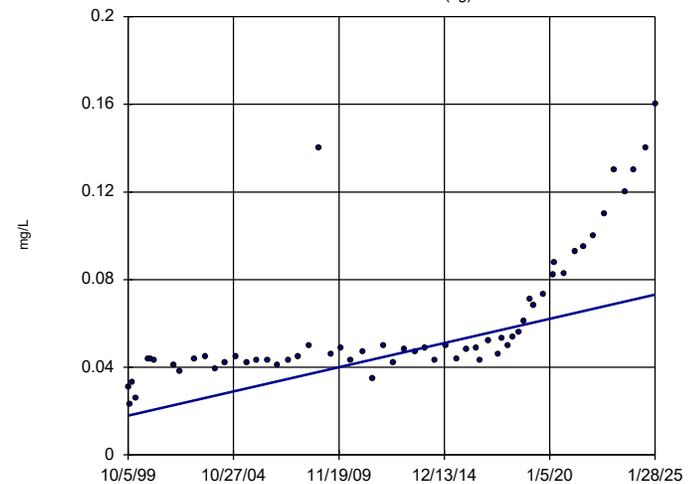


n = 15
 Slope = 0 units per year.
 Mann-Kendall statistic = 3
 critical = 53
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Barium Analysis Run 5/5/2025 12:04 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-3A (bg)

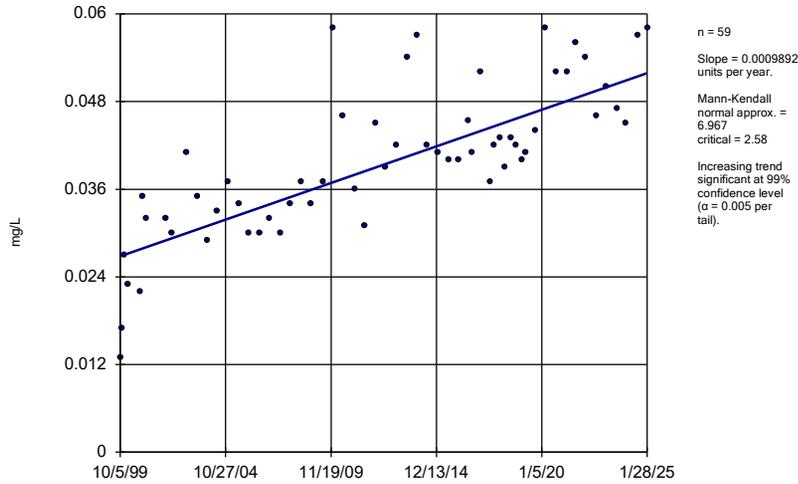


n = 60
 Slope = 0.00218 units per year.
 Mann-Kendall normal approx. = 8.208
 critical = 2.58
 Increasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Barium Analysis Run 5/5/2025 12:04 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

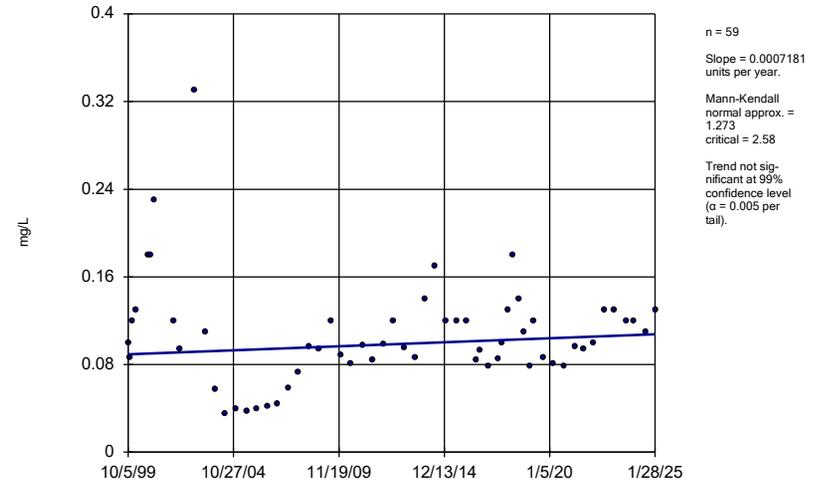
GWA-4 (bg)



Constituent: Barium Analysis Run 5/5/2025 12:04 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

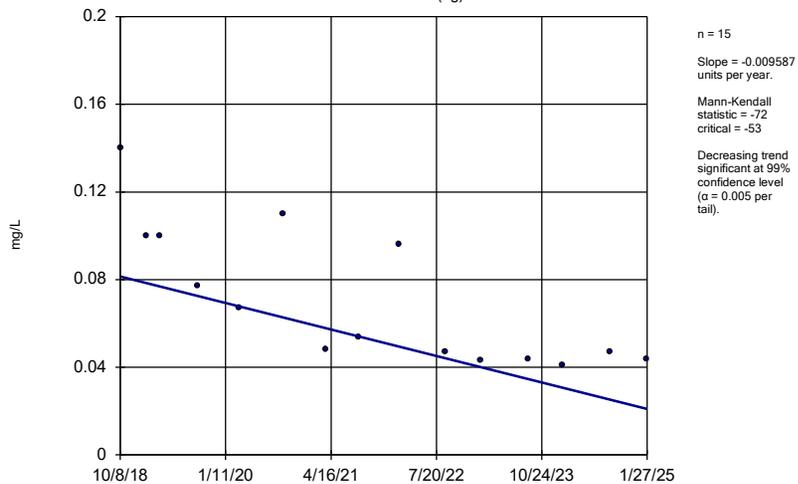
GWA-5 (bg)



Constituent: Barium Analysis Run 5/5/2025 12:04 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

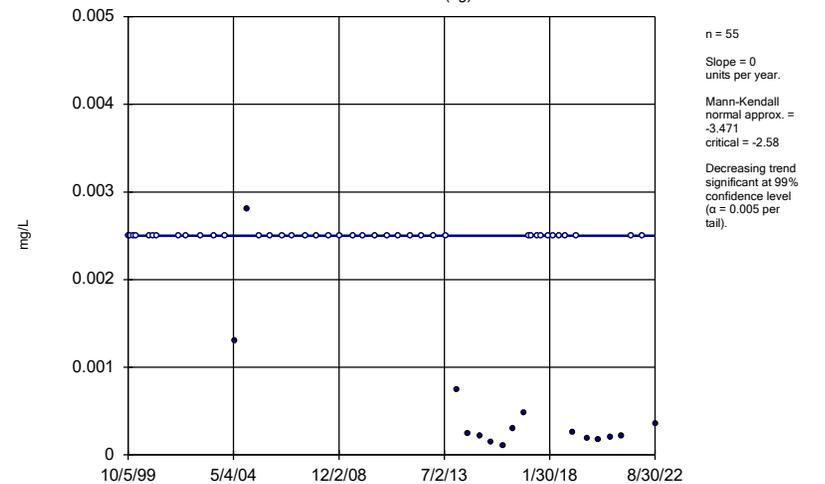
GWA-7A (bg)



Constituent: Barium Analysis Run 5/5/2025 12:04 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

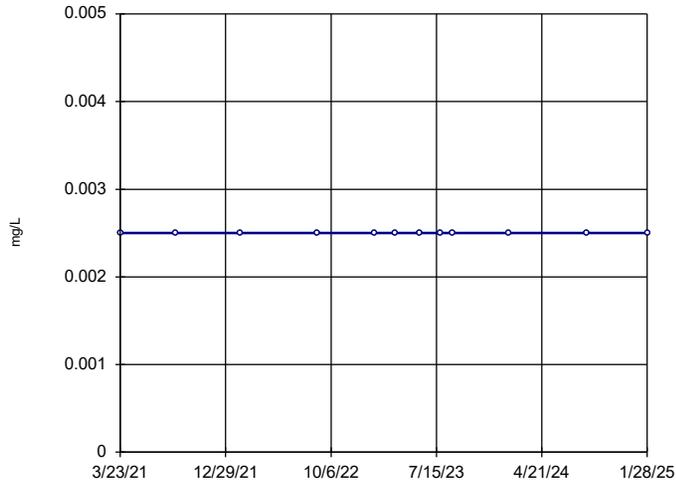
GWA-1A (bg)



Constituent: Beryllium Analysis Run 5/5/2025 12:04 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-1B (bg)

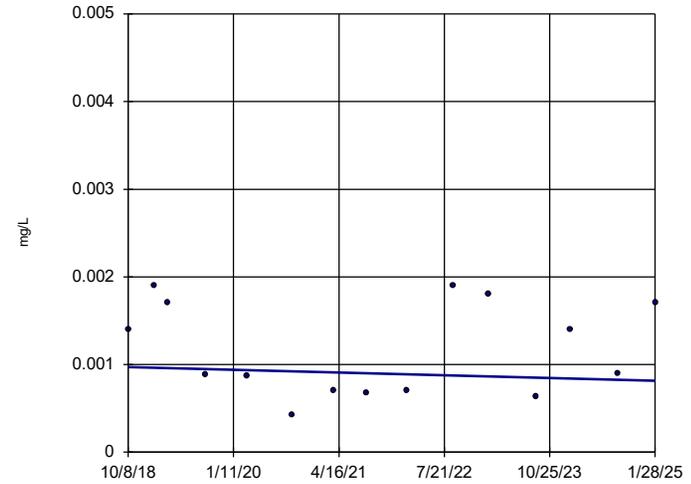


n = 12
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 5/5/2025 12:04 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-2B (bg)

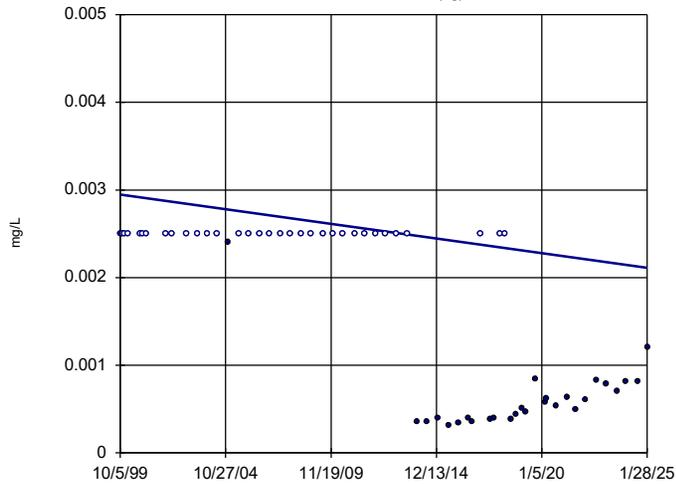


n = 15
Slope = -0.0000246
units per year.
Mann-Kendall
statistic = -7
critical = -53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 5/5/2025 12:04 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-3A (bg)

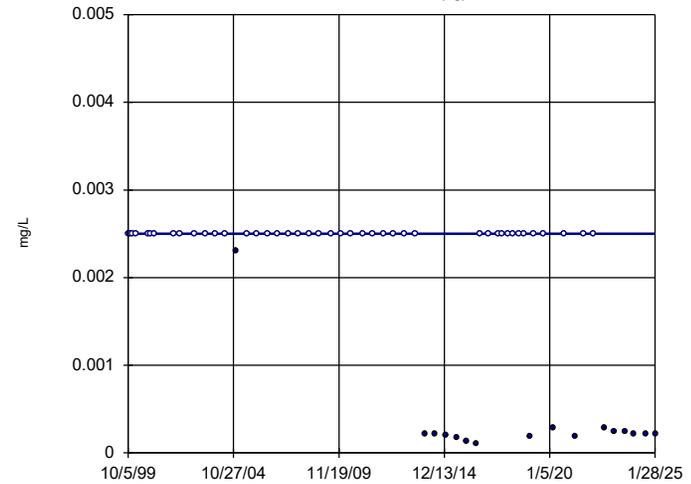


n = 60
Slope = -0.00003305
units per year.
Mann-Kendall
normal approx. =
-4.109
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 5/5/2025 12:04 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-4 (bg)

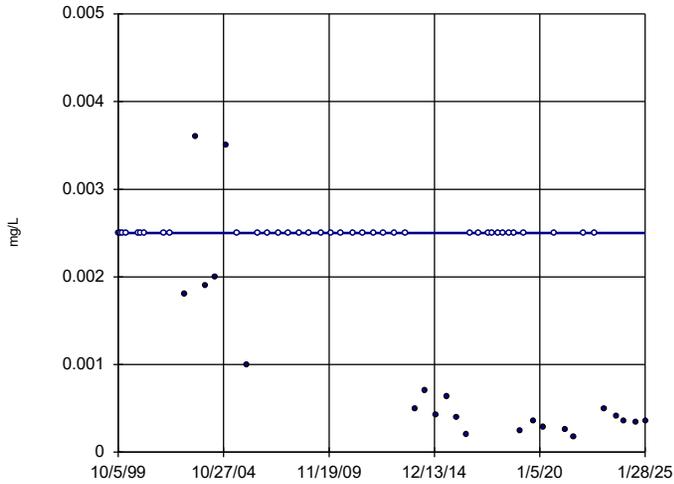


n = 59
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-3.779
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 5/5/2025 12:04 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-5 (bg)

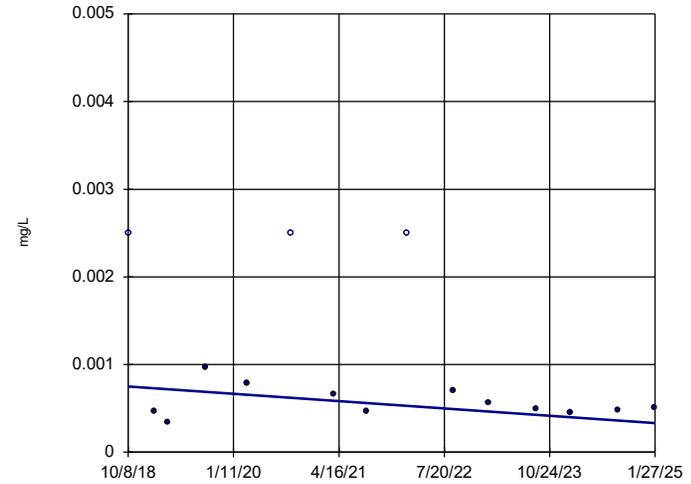


n = 59
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-3.889
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 5/5/2025 12:04 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-7A (bg)

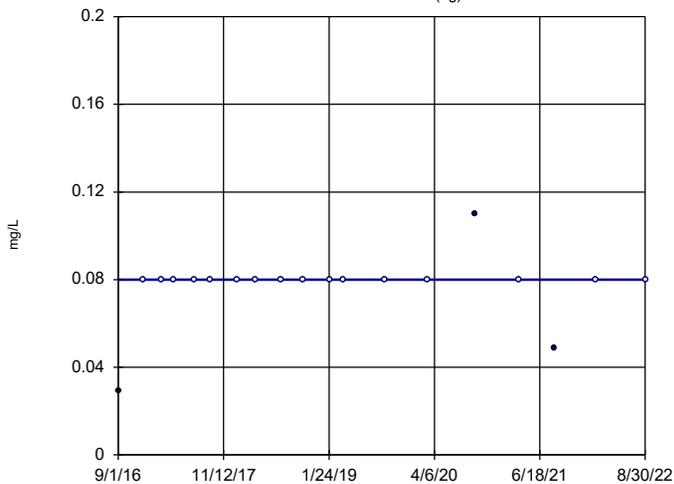


n = 15
Slope = -0.00006577
units per year.
Mann-Kendall
statistic = -.25
critical = -53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 5/5/2025 12:04 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-1A (bg)

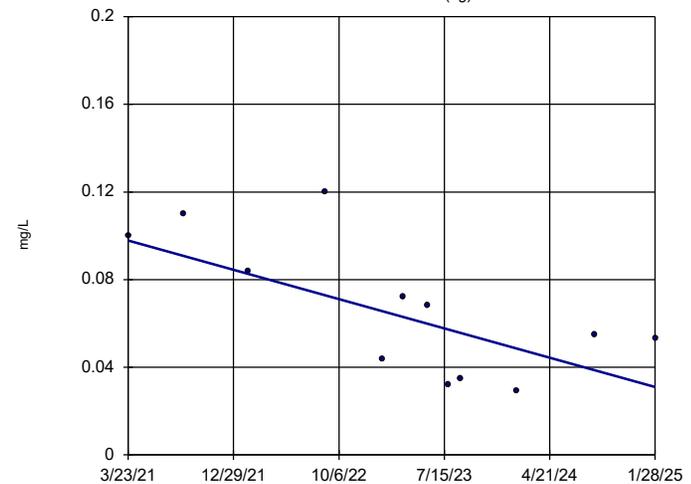


n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = 15
critical = 74
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 5/5/2025 12:04 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-1B (bg)

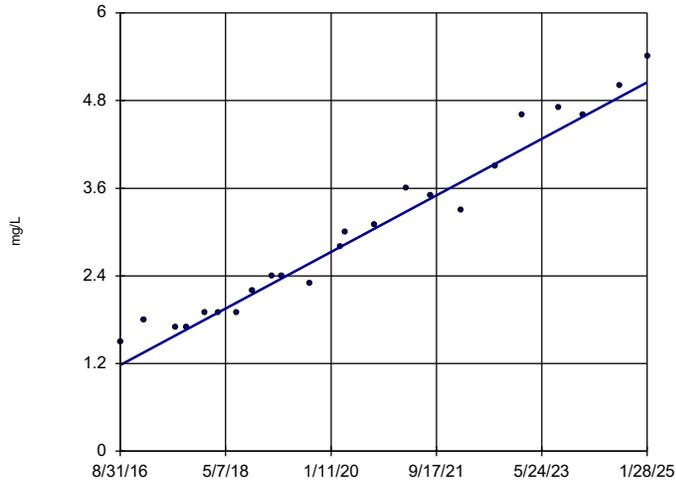


n = 12
Slope = -0.01732
units per year.
Mann-Kendall
statistic = -36
critical = -38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 5/5/2025 12:04 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-3A (bg)

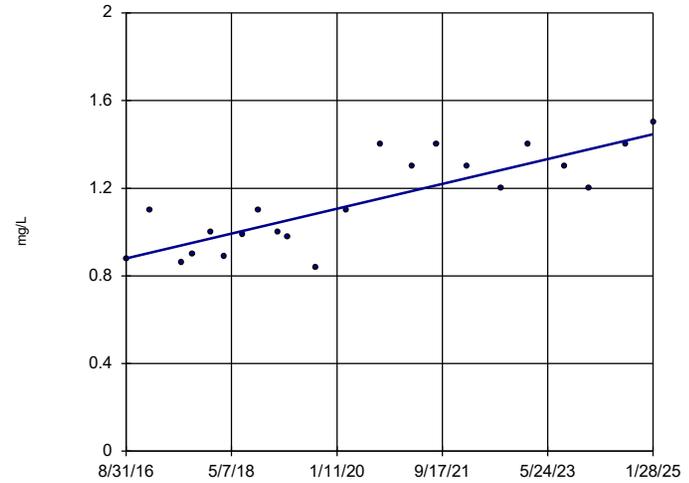


n = 23
 Slope = 0.4604
 units per year.
 Mann-Kendall
 statistic = 231
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-4 (bg)

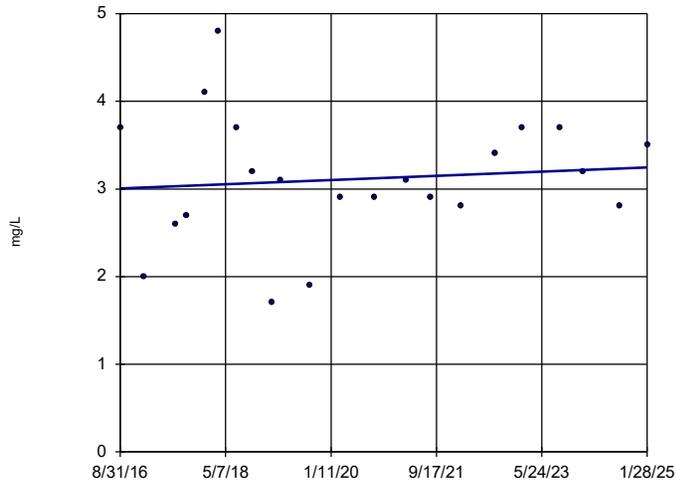


n = 22
 Slope = 0.06737
 units per year.
 Mann-Kendall
 statistic = 133
 critical = 92
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-5 (bg)

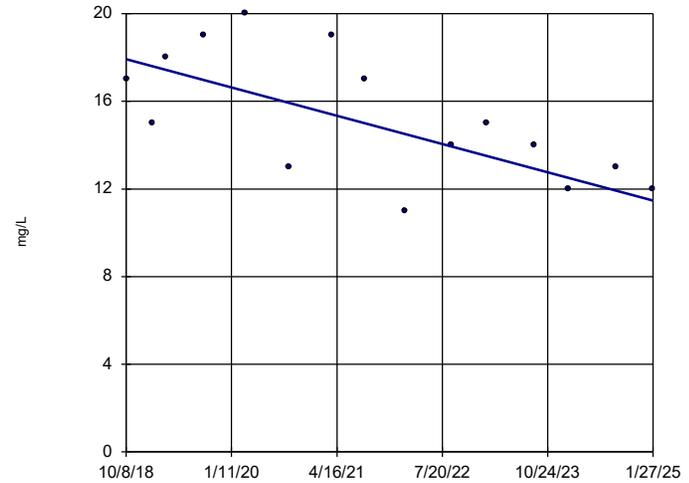


n = 22
 Slope = 0.0282
 units per year.
 Mann-Kendall
 statistic = 19
 critical = 92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-7A (bg)

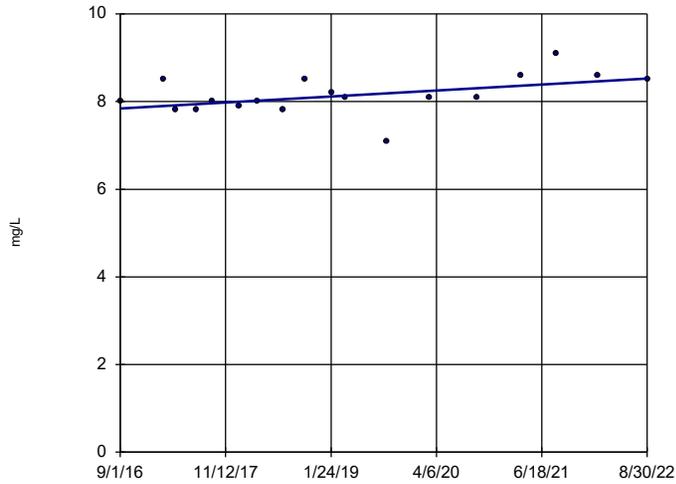


n = 15
 Slope = -1.022
 units per year.
 Mann-Kendall
 statistic = -47
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-1A (bg)

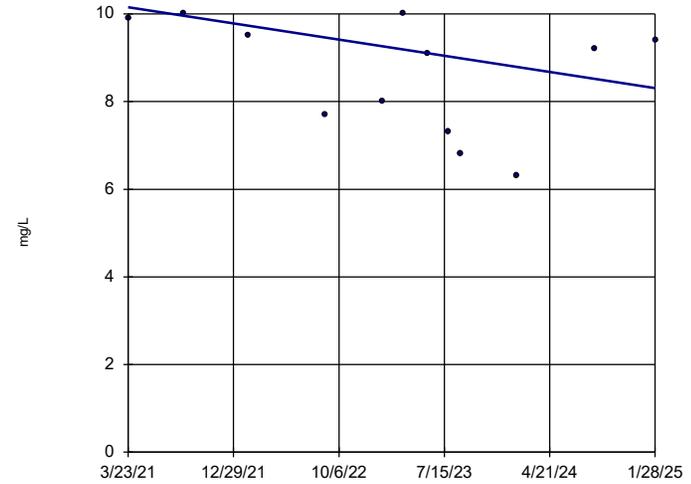


n = 18
 Slope = 0.1129
 units per year.
 Mann-Kendall
 statistic = 60
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-1B (bg)

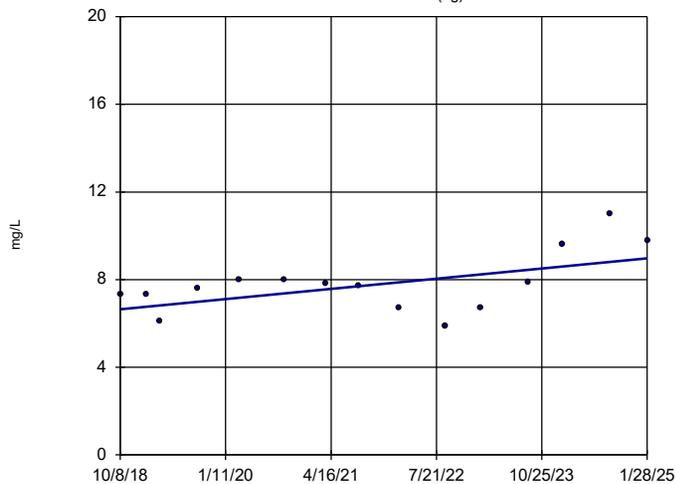


n = 12
 Slope = -0.479
 units per year.
 Mann-Kendall
 statistic = -23
 critical = -38
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-2B (bg)

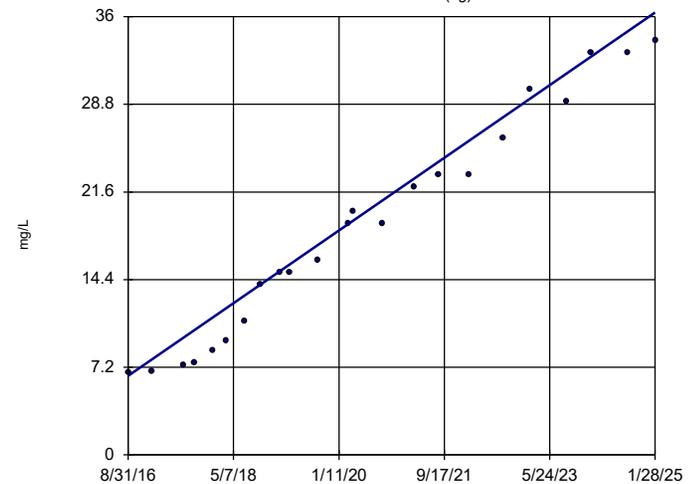


n = 15
 Slope = 0.3681
 units per year.
 Mann-Kendall
 statistic = 36
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-3A (bg)

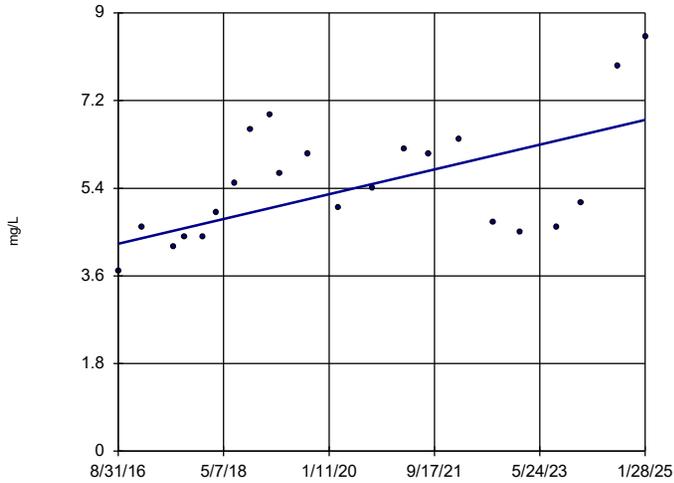


n = 23
 Slope = 3.544
 units per year.
 Mann-Kendall
 statistic = 245
 critical = 98
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-4 (bg)

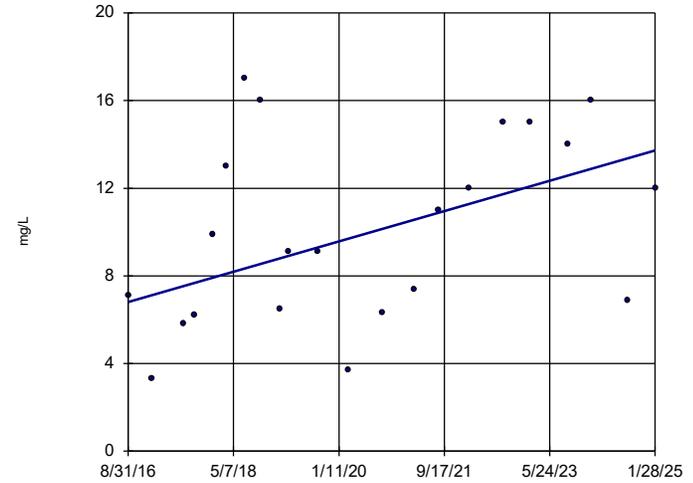


n = 22
 Slope = 0.3023
 units per year.
 Mann-Kendall
 statistic = 90
 critical = 92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-5 (bg)

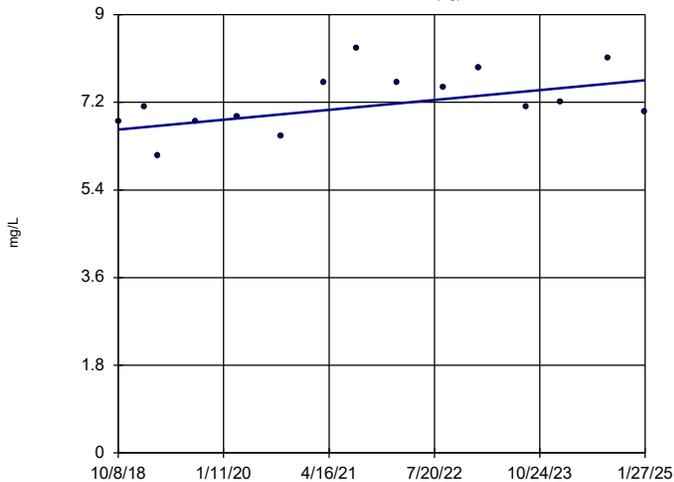


n = 22
 Slope = 0.8229
 units per year.
 Mann-Kendall
 statistic = 73
 critical = 92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-7A (bg)

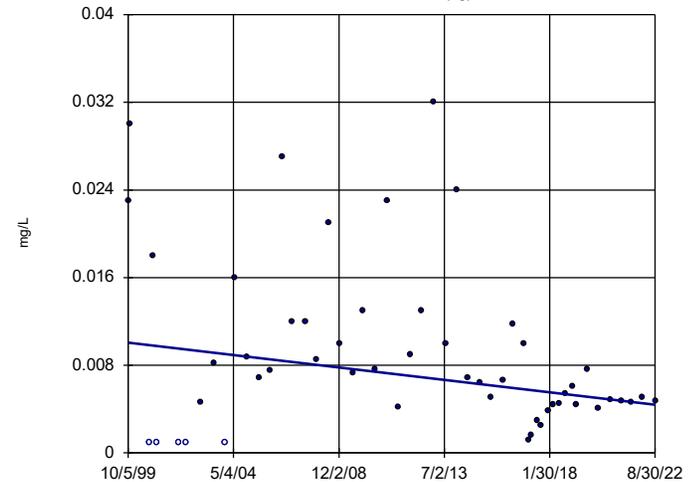


n = 15
 Slope = 0.1613
 units per year.
 Mann-Kendall
 statistic = 36
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-1A (bg)

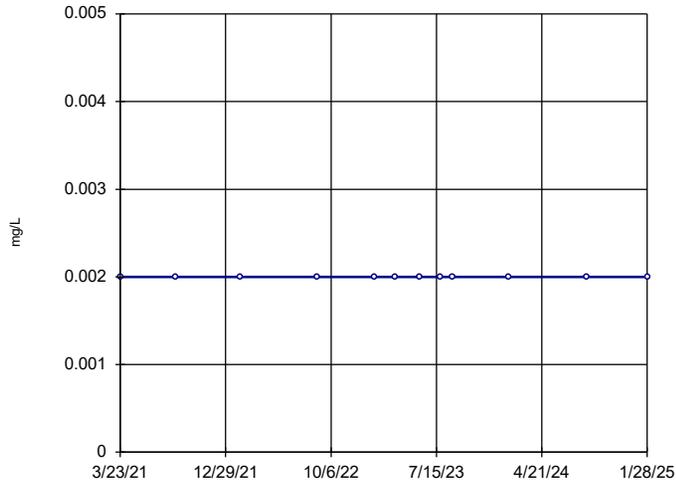


n = 53
 Slope = -0.0002471
 units per year.
 Mann-Kendall
 normal approx. =
 -1.988
 critical = -2.58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chromium Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-1B (bg)

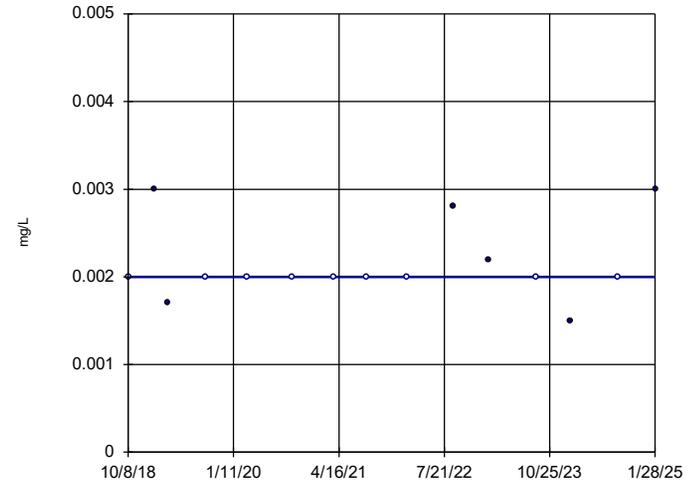


n = 12
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chromium Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-2B (bg)

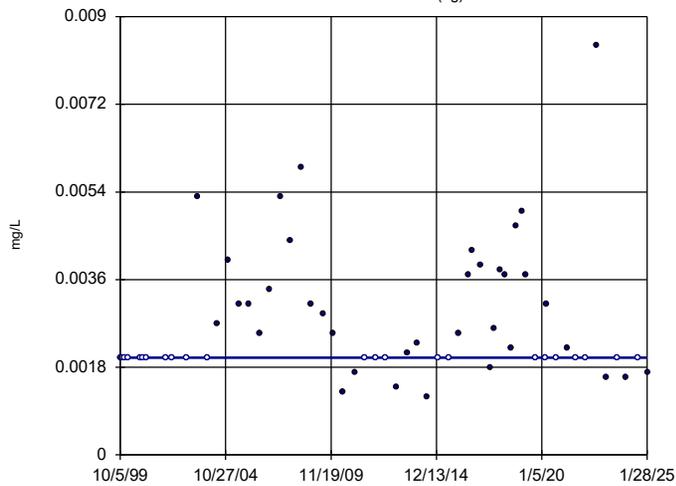


n = 15
Slope = 0
units per year.
Mann-Kendall
statistic = 10
critical = 53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chromium Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-3A (bg)

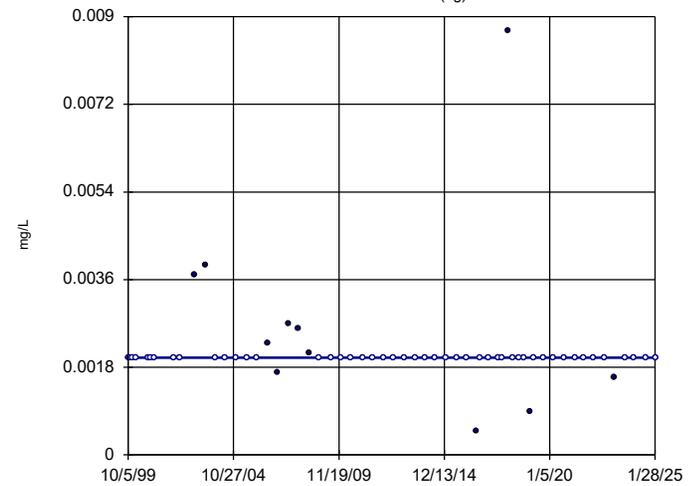


n = 60
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-0.1447
critical = -2.58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chromium Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-4 (bg)

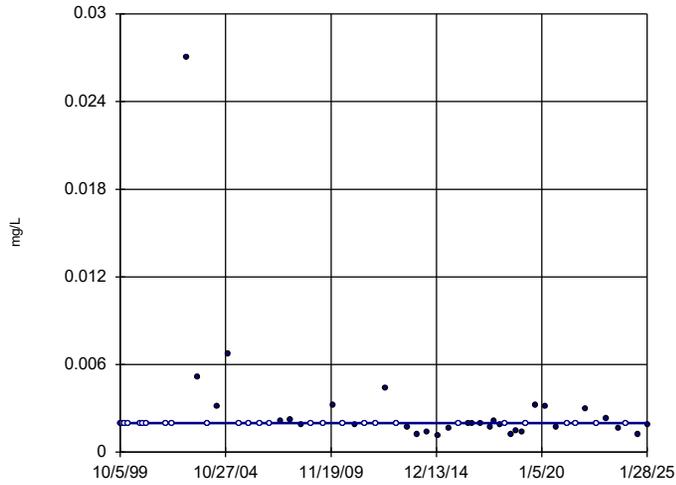


n = 59
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-1.893
critical = -2.58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chromium Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-5 (bg)

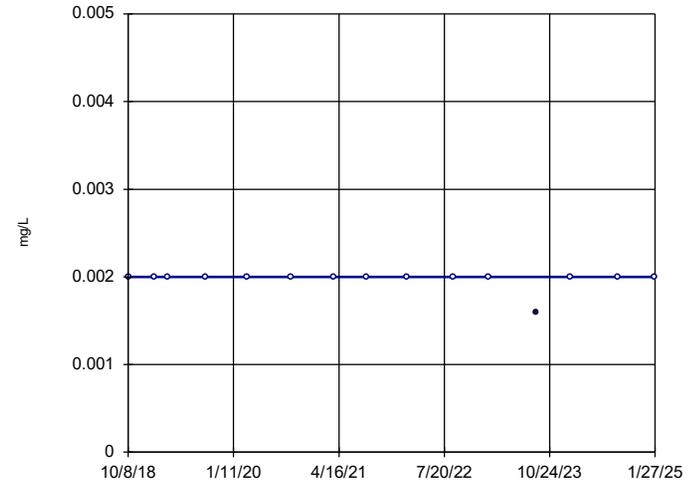


n = 59
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-2.138
critical = -2.58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chromium Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-7A (bg)

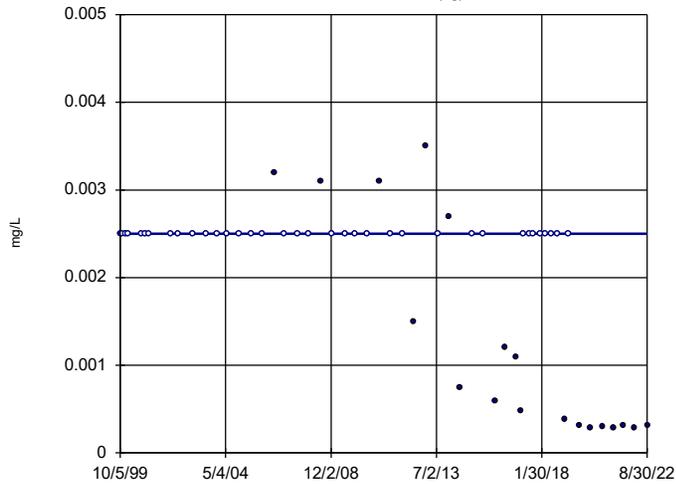


n = 15
Slope = 0
units per year.
Mann-Kendall
statistic = -8
critical = -53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chromium Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-1A (bg)

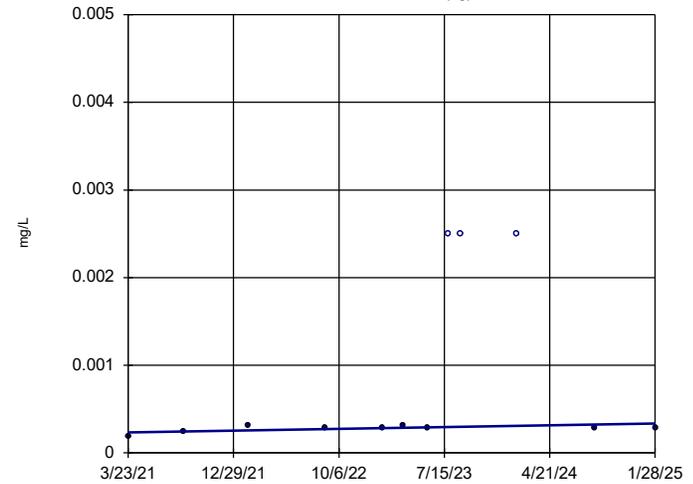


n = 55
Slope = 0
units per year.
Mann-Kendall
normal approx. =
-4.179
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-1B (bg)

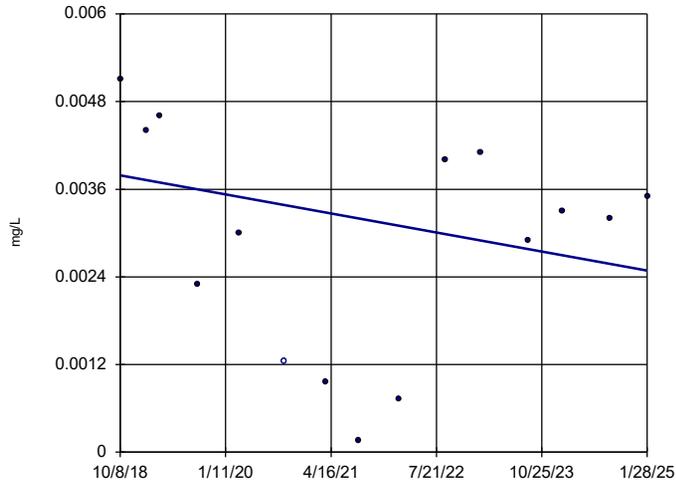


n = 12
Slope = 0.00002615
units per year.
Mann-Kendall
statistic = 24
critical = 38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-2B (bg)

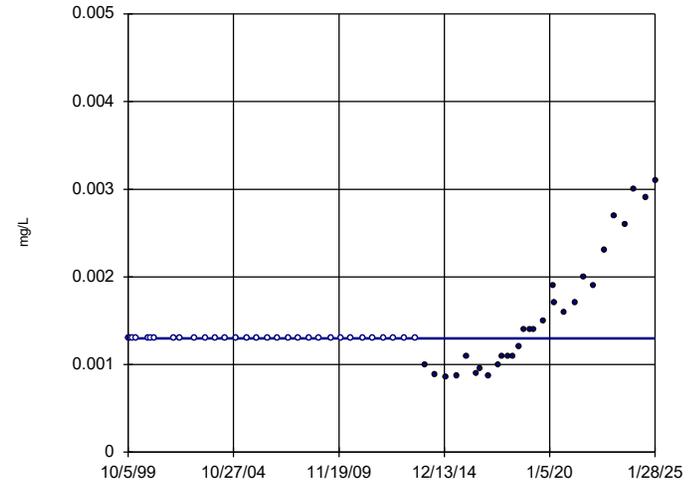


n = 15
Slope = -0.0002069
units per year.
Mann-Kendall
statistic = -17
critical = -53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-3A (bg)

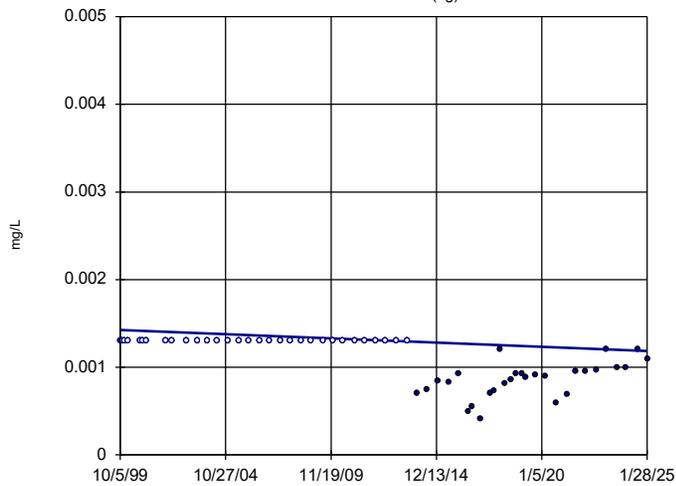


n = 60
Slope = 0
units per year.
Mann-Kendall
normal approx. =
3.036
critical = 2.58
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-4 (bg)

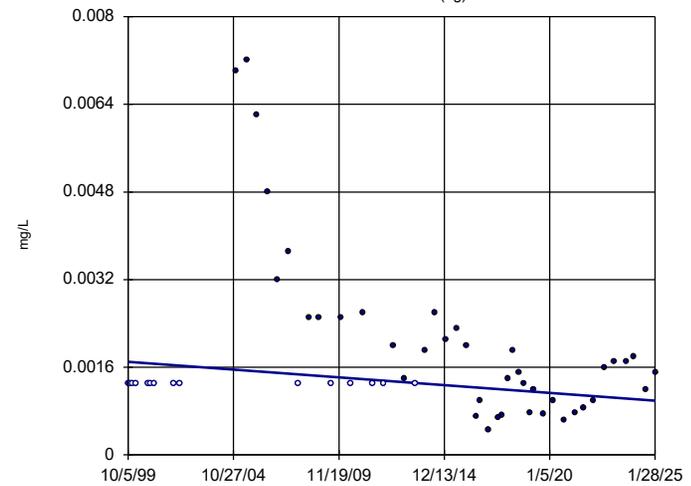


n = 59
Slope = -0.000009468
units per year.
Mann-Kendall
normal approx. =
-4.769
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-5 (bg)

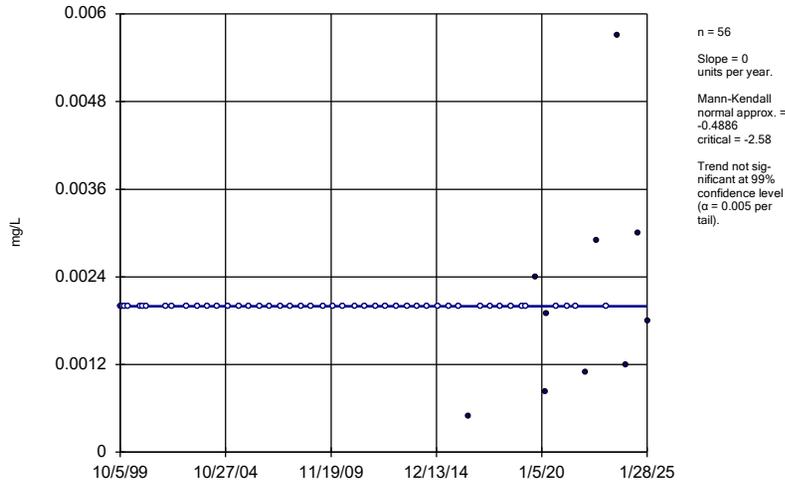


n = 55
Slope = -0.00002792
units per year.
Mann-Kendall
normal approx. =
-2.333
critical = -2.58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

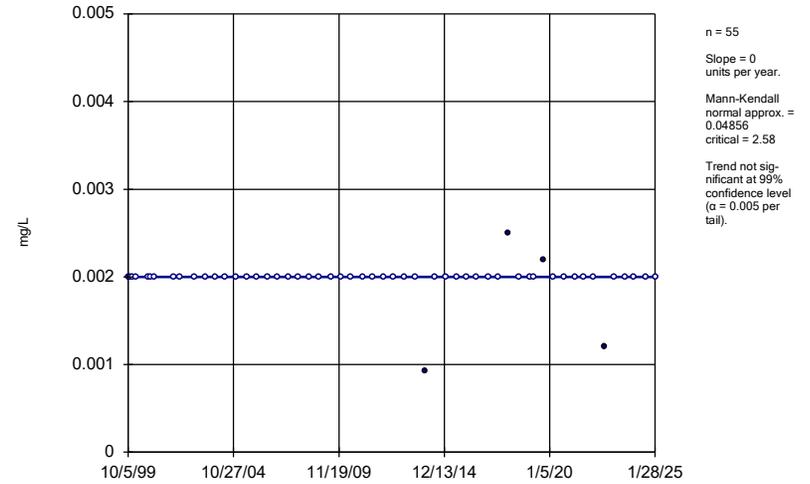
GWA-3A (bg)



Constituent: Copper Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

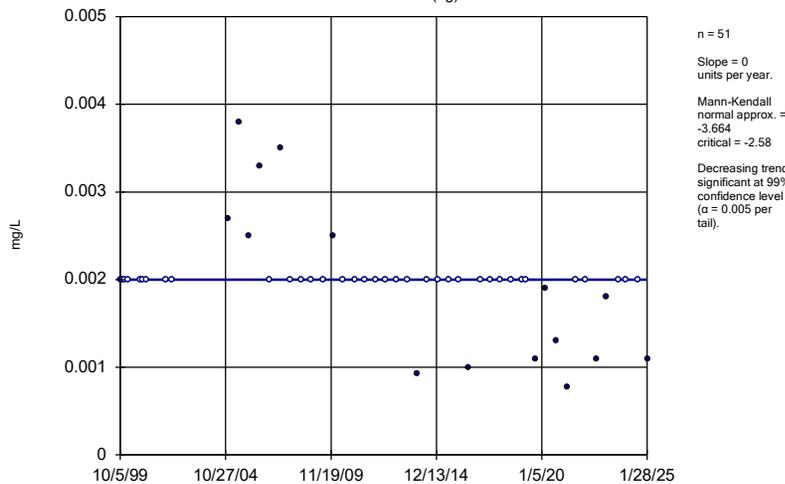
GWA-4 (bg)



Constituent: Copper Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

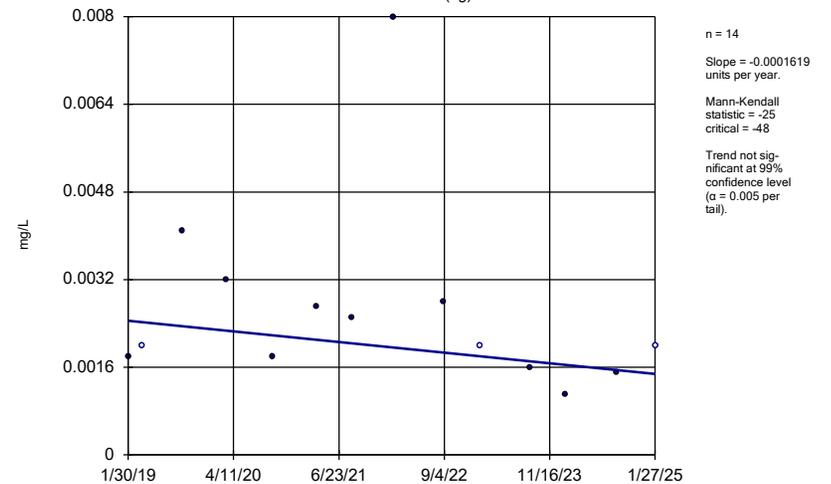
GWA-5 (bg)



Constituent: Copper Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

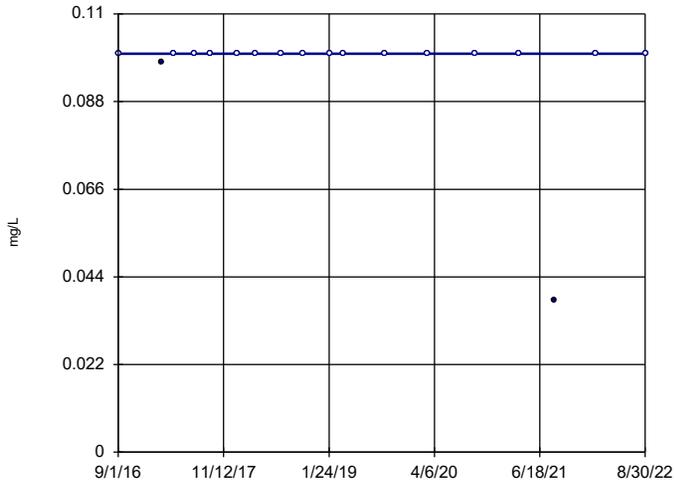
GWA-7A (bg)



Constituent: Copper Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-1A (bg)

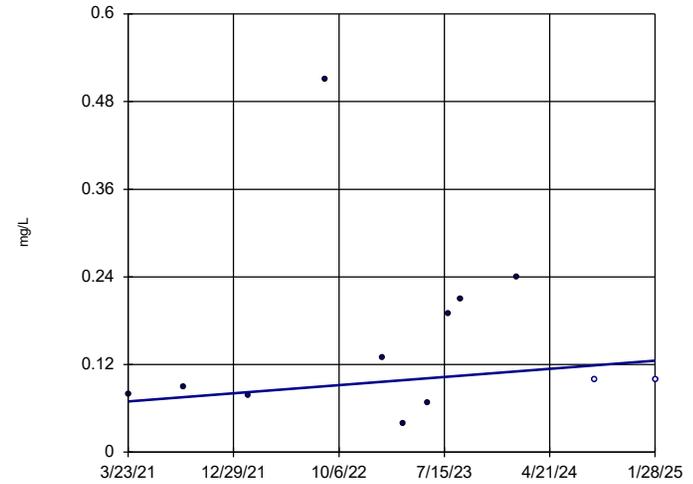


n = 18
Slope = 0
units per year.
Mann-Kendall
statistic = 1
critical = 68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-1B (bg)

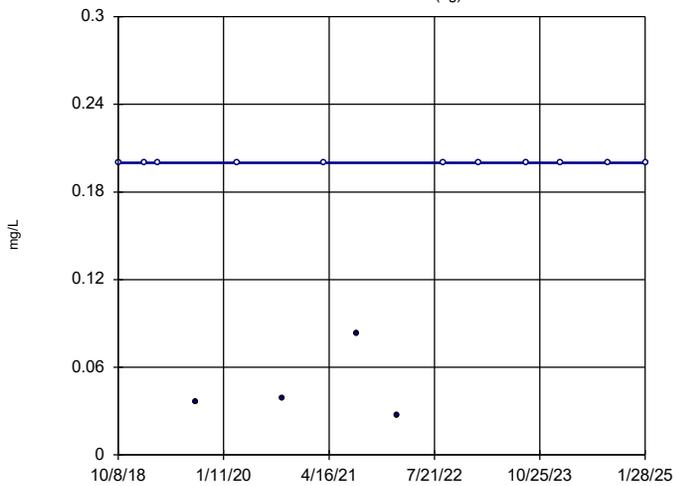


n = 12
Slope = 0.01443
units per year.
Mann-Kendall
statistic = 13
critical = 38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-2B (bg)

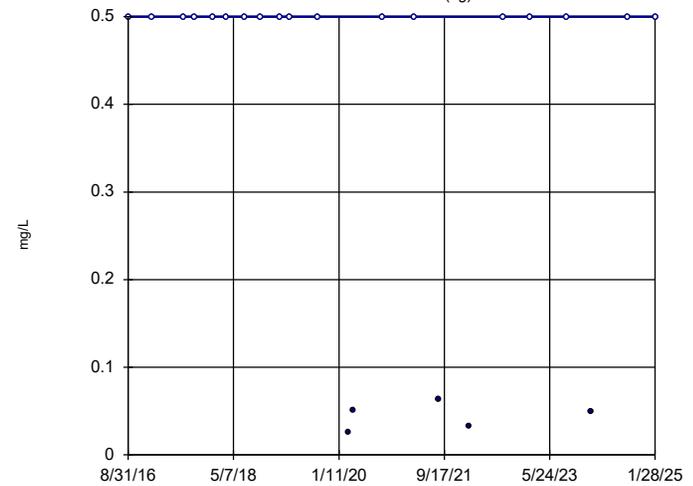


n = 15
Slope = 0
units per year.
Mann-Kendall
statistic = 10
critical = 53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-3A (bg)

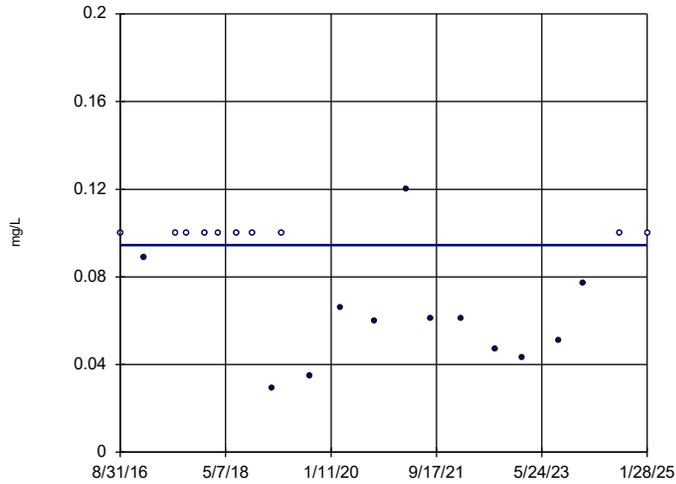


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = -36
critical = -98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-4 (bg)

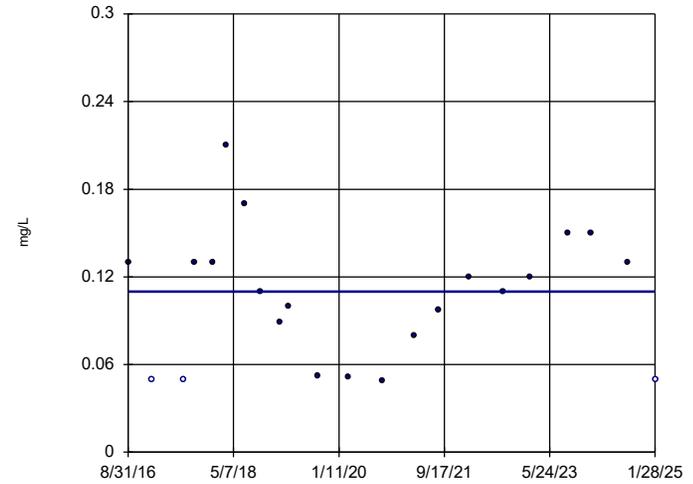


n = 22
Slope = 0
units per year.
Mann-Kendall
statistic = -43
critical = -92
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-5 (bg)

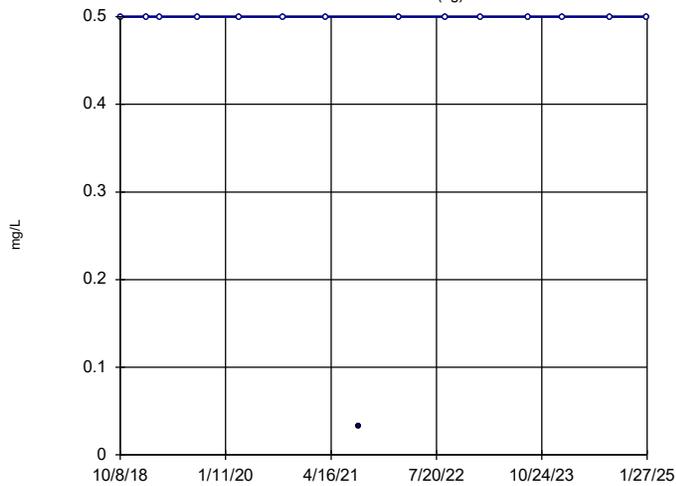


n = 22
Slope = 0
units per year.
Mann-Kendall
statistic = 7
critical = 92
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-7A (bg)

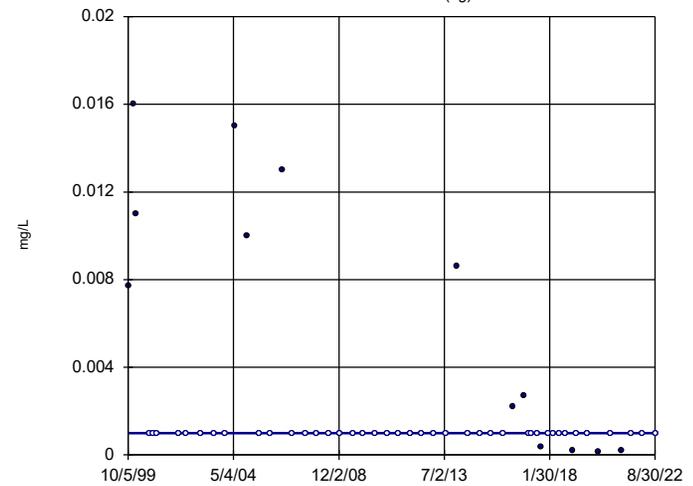


n = 15
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Fluoride Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

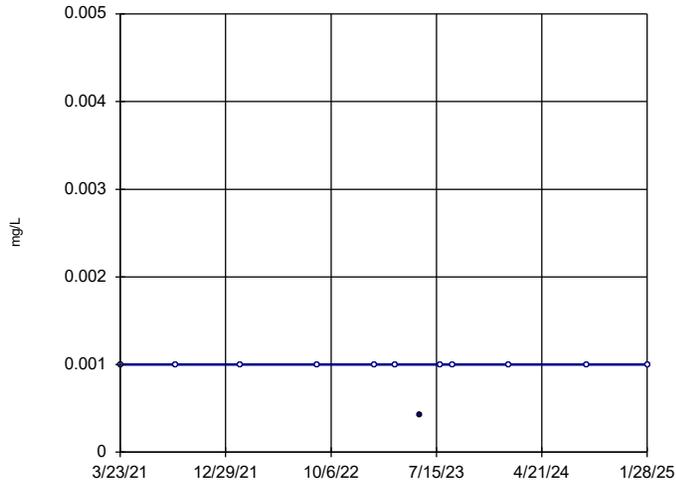
Sen's Slope Estimator

GWA-1A (bg)



Sen's Slope Estimator

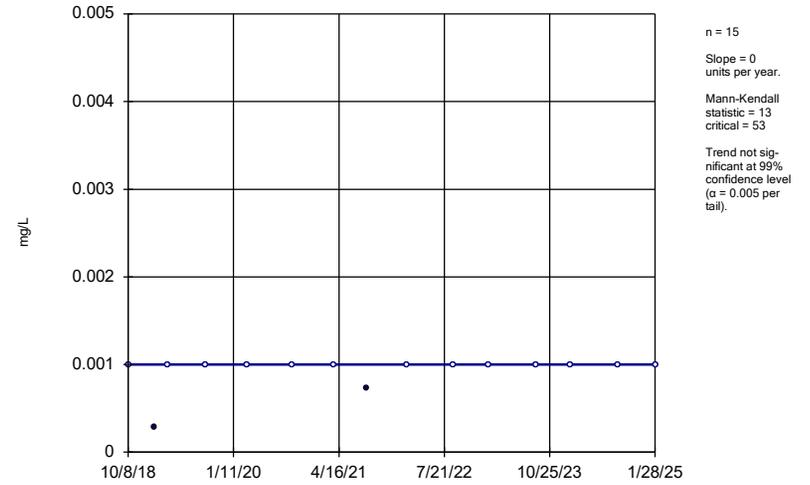
GWA-1B (bg)



Constituent: Lead Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

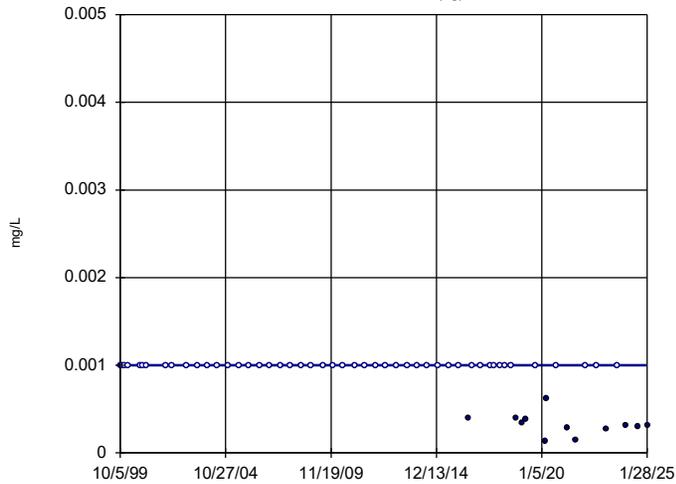
GWA-2B (bg)



Constituent: Lead Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

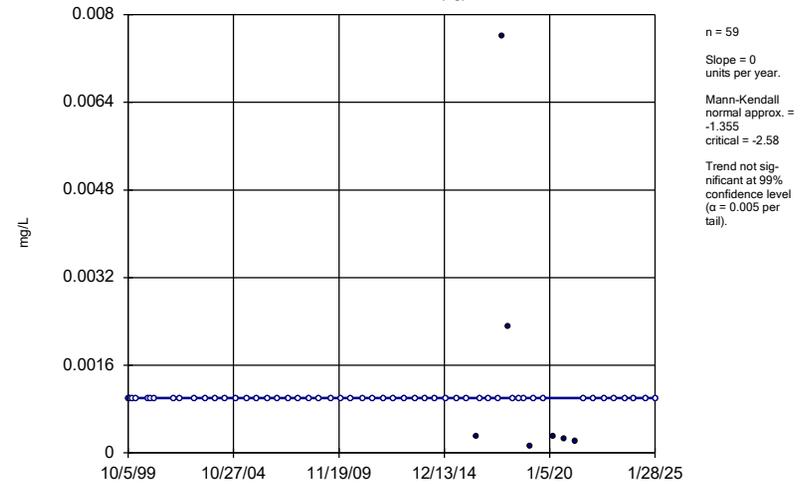
GWA-3A (bg)



Constituent: Lead Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

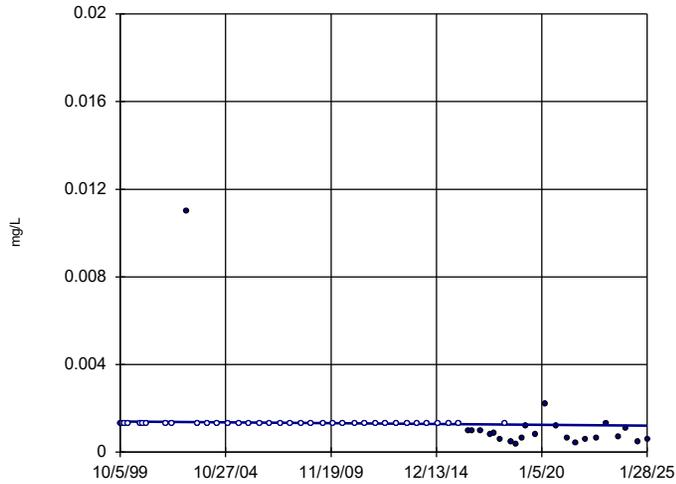
GWA-4 (bg)



Constituent: Lead Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-5 (bg)

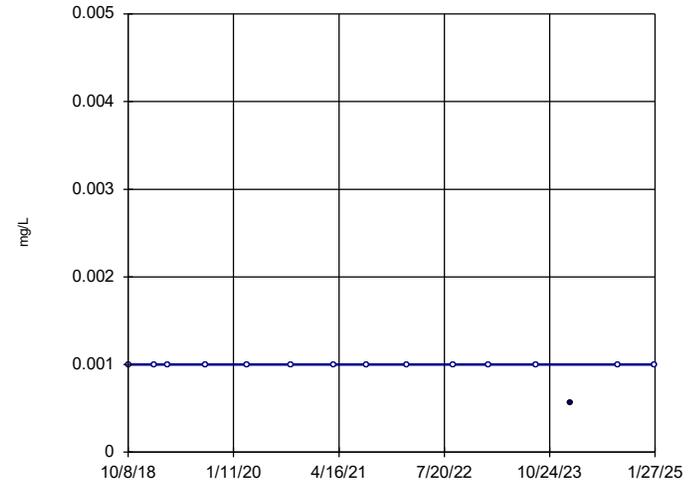


n = 59
Slope = -0.00007523
units per year.
Mann-Kendall
normal approx. =
-5.566
critical = -2.58
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Lead Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-7A (bg)

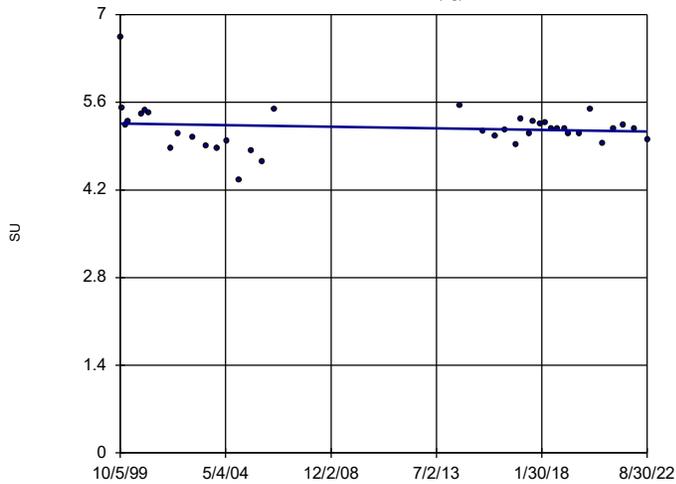


n = 15
Slope = 0
units per year.
Mann-Kendall
statistic = -10
critical = -53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Lead Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-1A (bg)

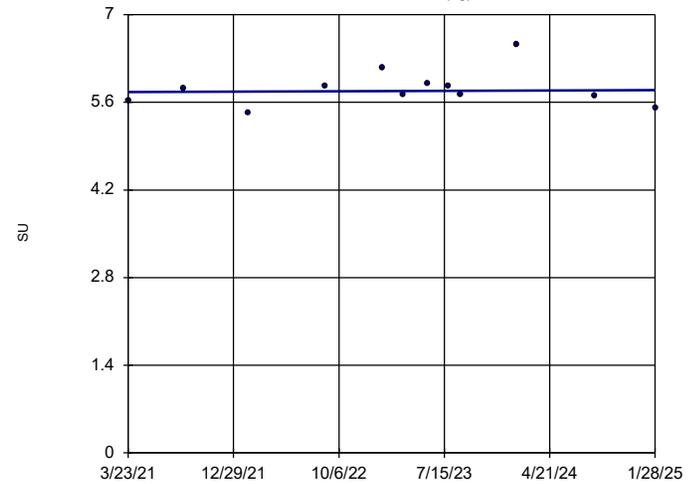


n = 38
Slope = -0.005616
units per year.
Mann-Kendall
statistic = -58
critical = -206
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: pH, Field Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-1B (bg)

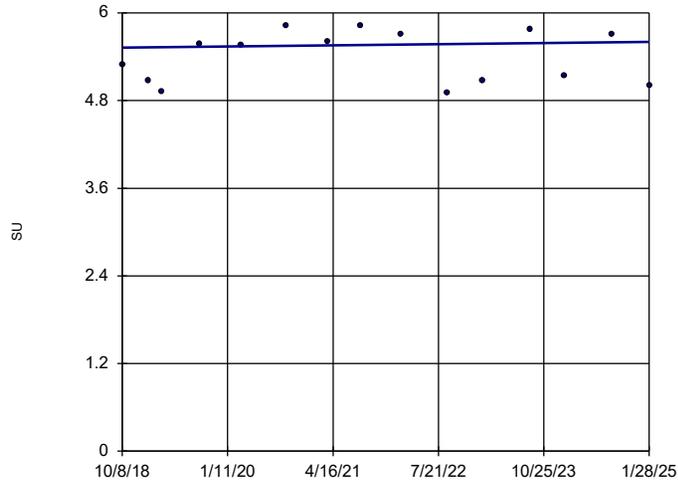


n = 12
Slope = 0.007733
units per year.
Mann-Kendall
statistic = 1
critical = 38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: pH, Field Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

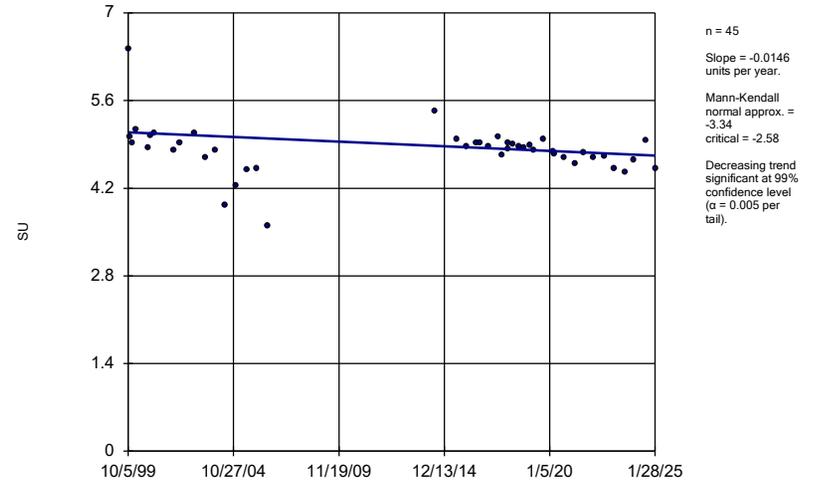
GWA-2B (bg)



Constituent: pH, Field Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

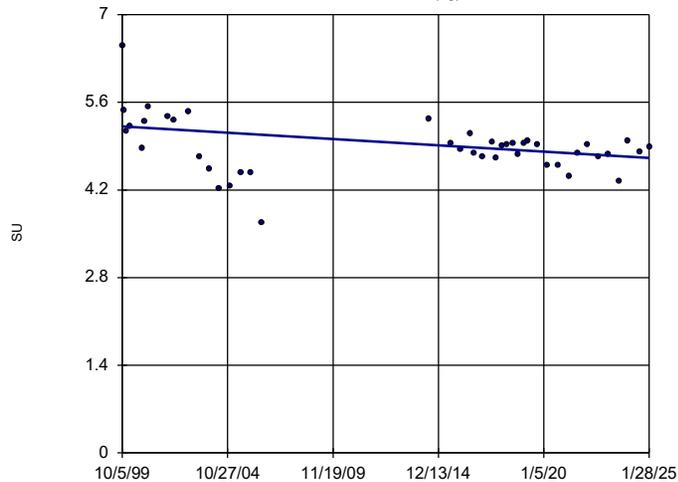
GWA-3A (bg)



Constituent: pH, Field Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

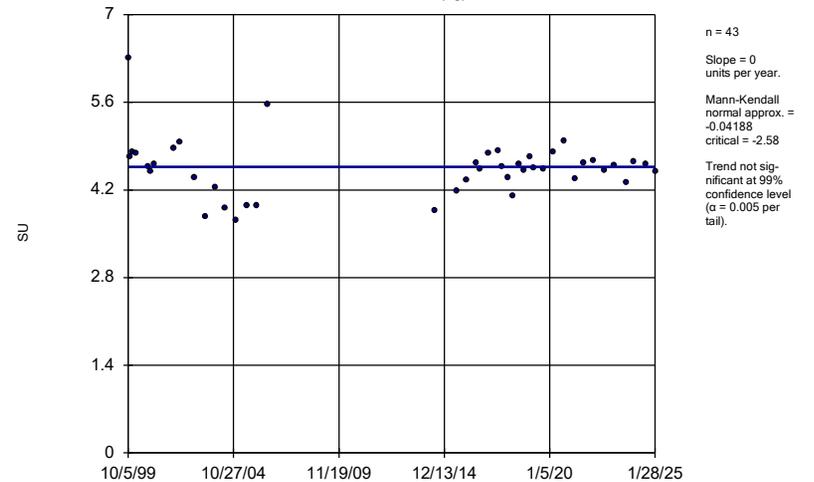
GWA-4 (bg)



Constituent: pH, Field Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

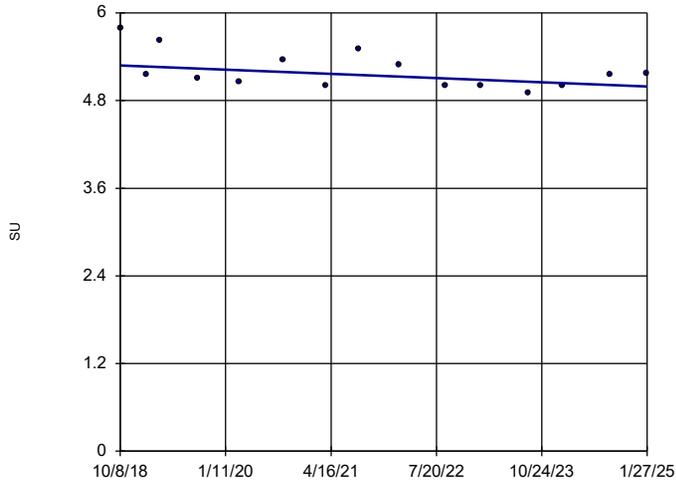
GWA-5 (bg)



Constituent: pH, Field Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-7A (bg)

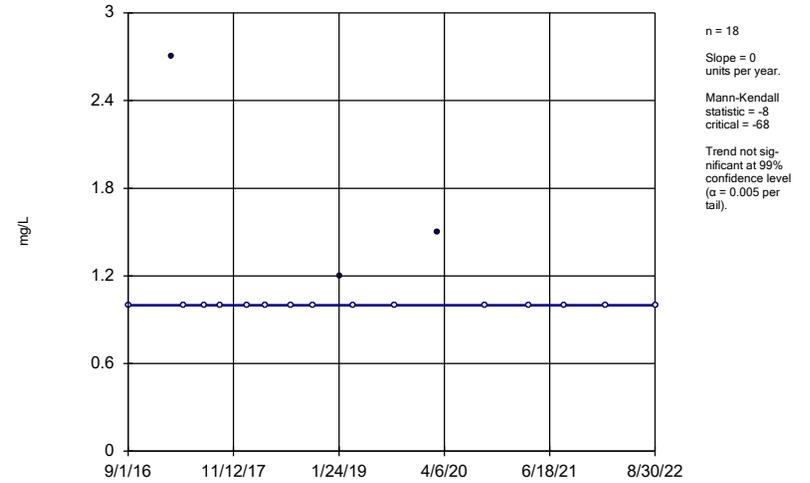


Constituent: pH, Field Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Hollow symbols indicate censored values.

Sen's Slope Estimator

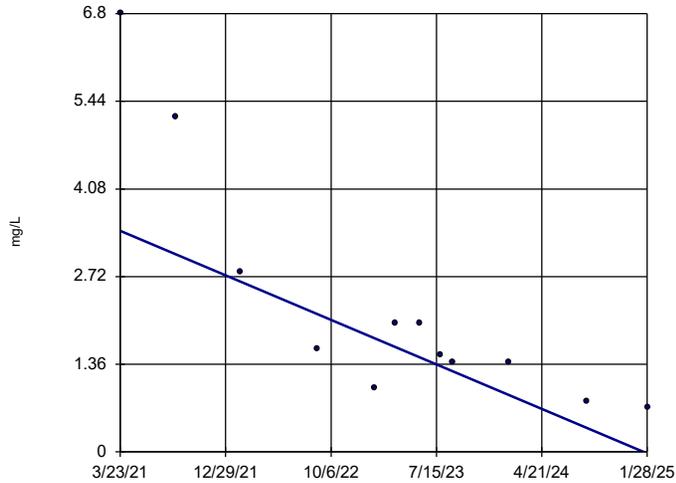
GWA-1A (bg)



Constituent: Sulfate Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

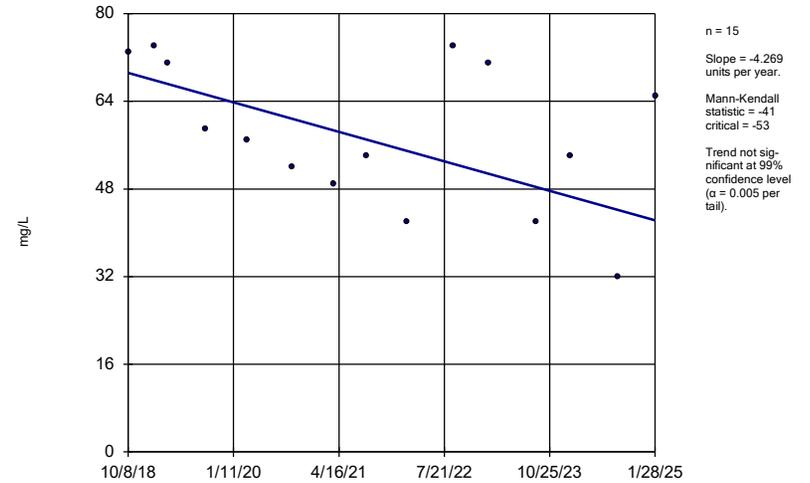
GWA-1B (bg)



Constituent: Sulfate Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

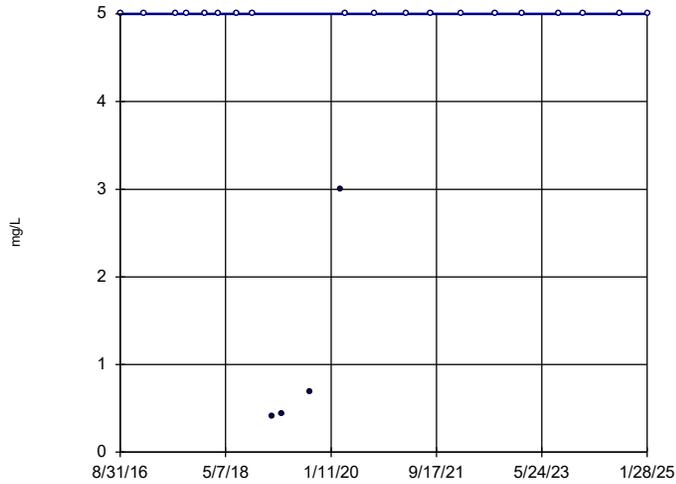
GWA-2B (bg)



Constituent: Sulfate Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

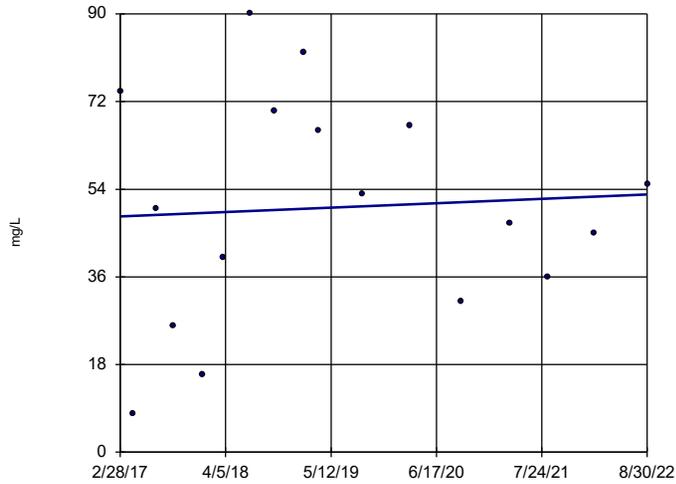
Sen's Slope Estimator

GWA-3A (bg)



Sen's Slope Estimator

GWA-1A (bg)

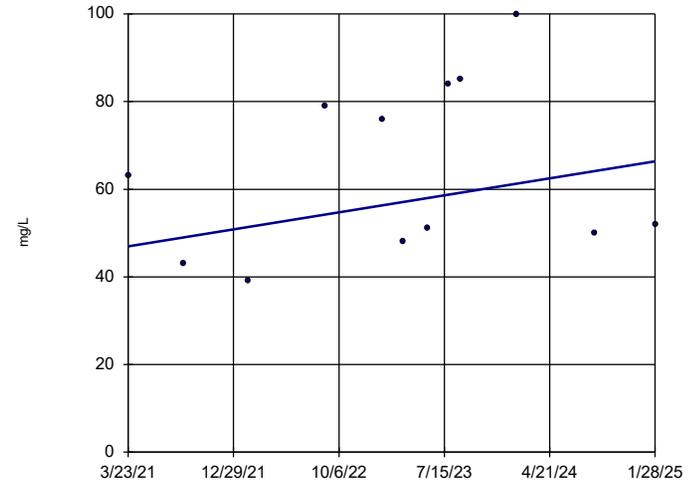


n = 17
 Slope = 0.8247 units per year.
 Mann-Kendall statistic = 2
 critical = 63
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-1B (bg)

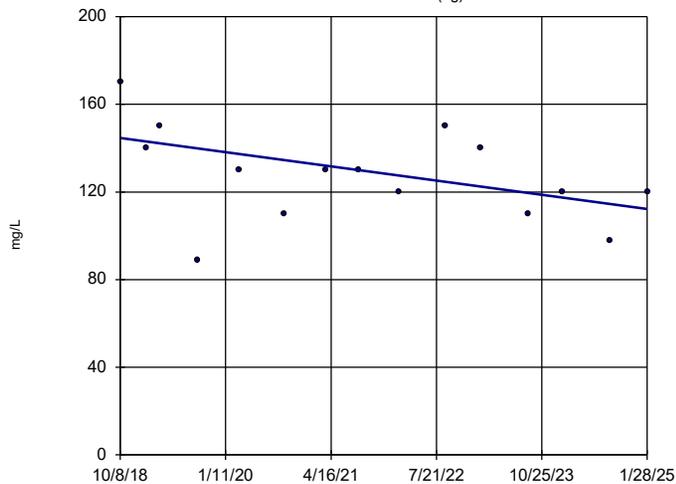


n = 12
 Slope = 5.032 units per year.
 Mann-Kendall statistic = 20
 critical = 38
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-2B (bg)

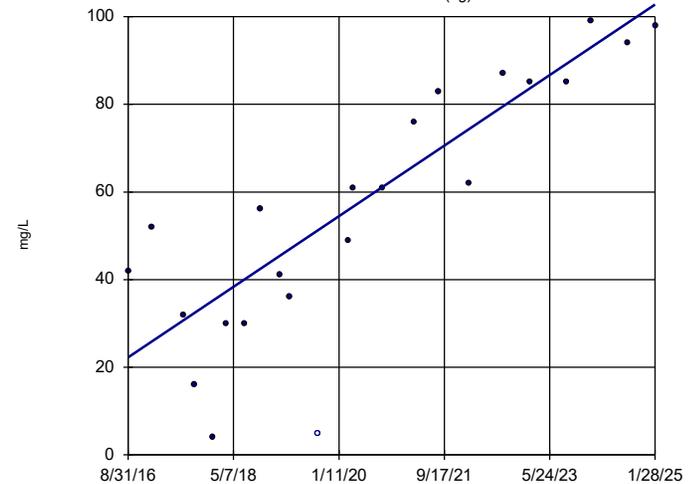


n = 15
 Slope = -5.134 units per year.
 Mann-Kendall statistic = -34
 critical = -53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-3A (bg)

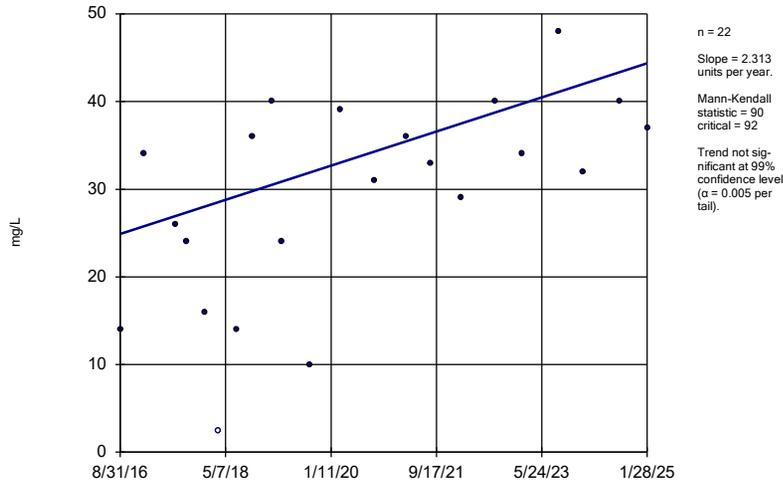


n = 23
 Slope = 9.558 units per year.
 Mann-Kendall statistic = 172
 critical = 98
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

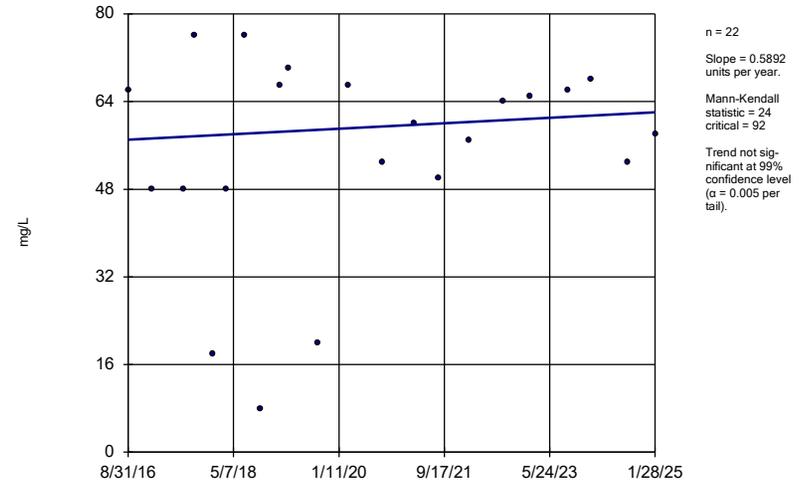
GWA-4 (bg)



Constituent: TDS Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

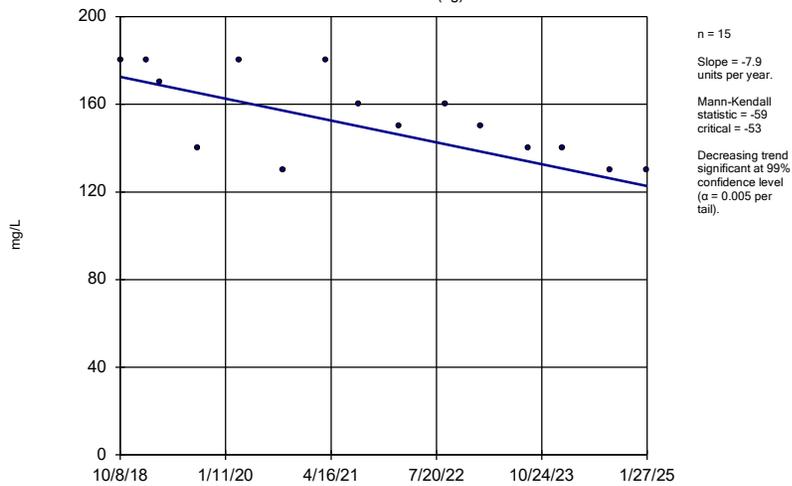
GWA-5 (bg)



Constituent: TDS Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

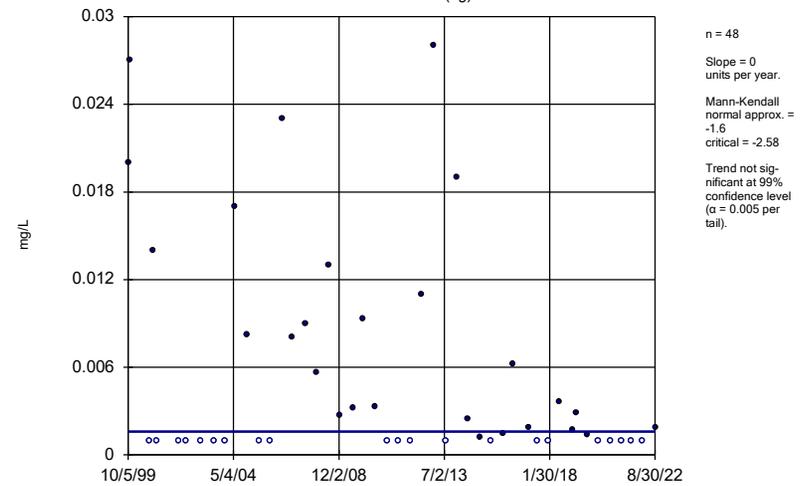
GWA-7A (bg)



Constituent: TDS Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

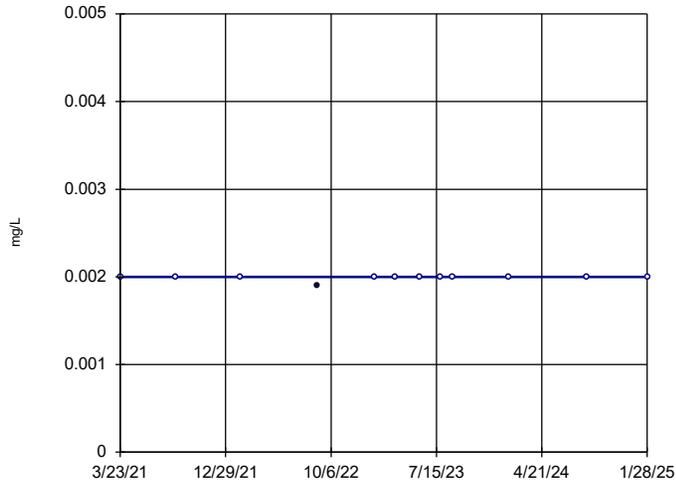
GWA-1A (bg)



Constituent: Vanadium Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

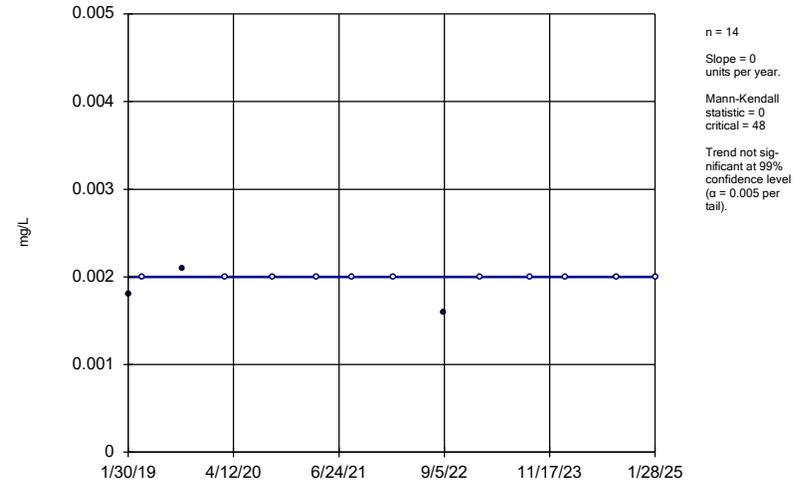
GWA-1B (bg)



Constituent: Vanadium Analysis Run 5/5/2025 12:05 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

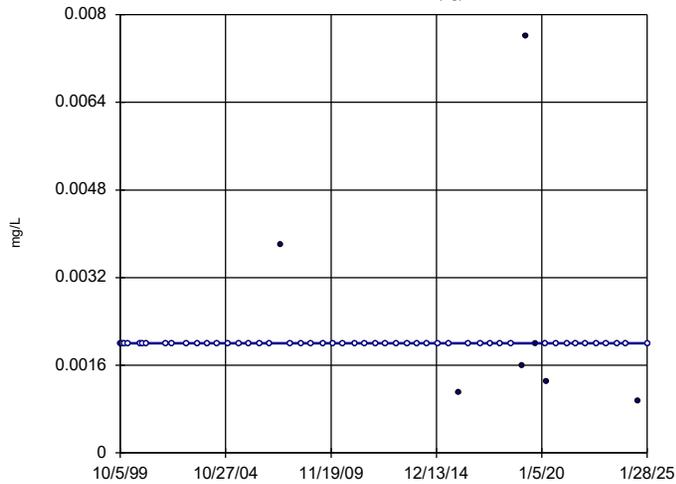
GWA-2B (bg)



Constituent: Vanadium Analysis Run 5/5/2025 12:06 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

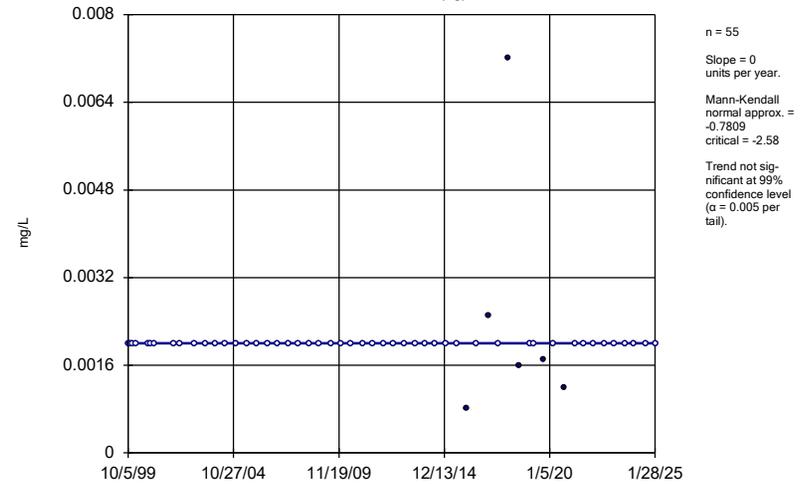
GWA-3A (bg)



Constituent: Vanadium Analysis Run 5/5/2025 12:06 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

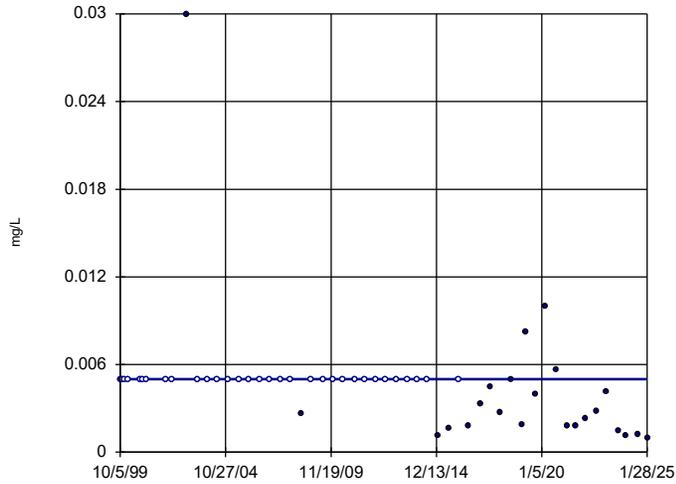
GWA-4 (bg)



Constituent: Vanadium Analysis Run 5/5/2025 12:06 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

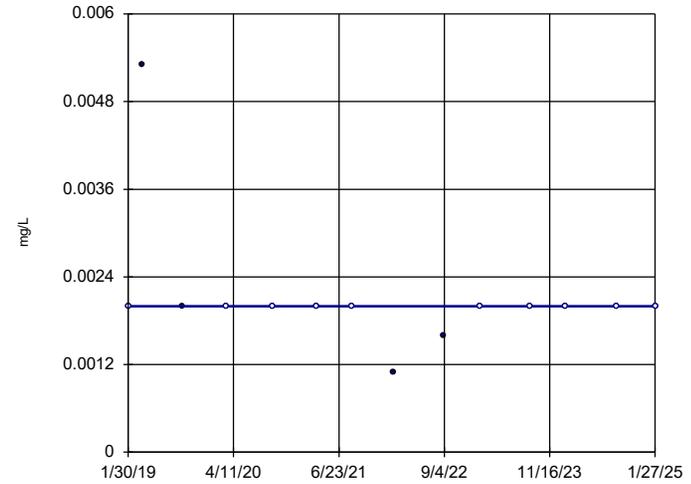
GWA-5 (bg)



Constituent: Vanadium Analysis Run 5/5/2025 12:06 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

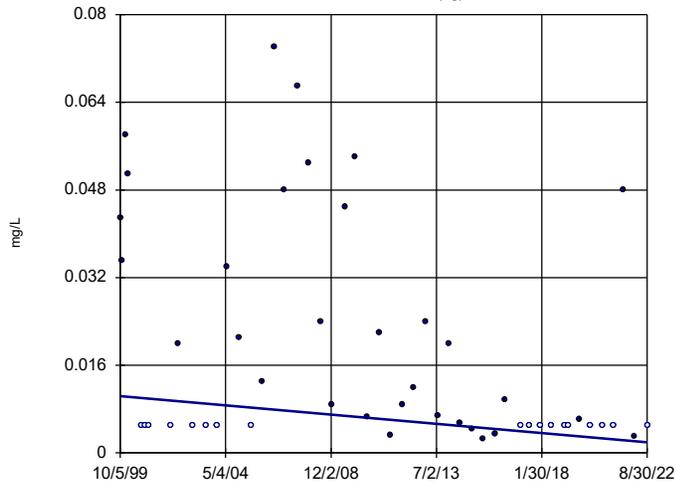
GWA-7A (bg)



Constituent: Vanadium Analysis Run 5/5/2025 12:06 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

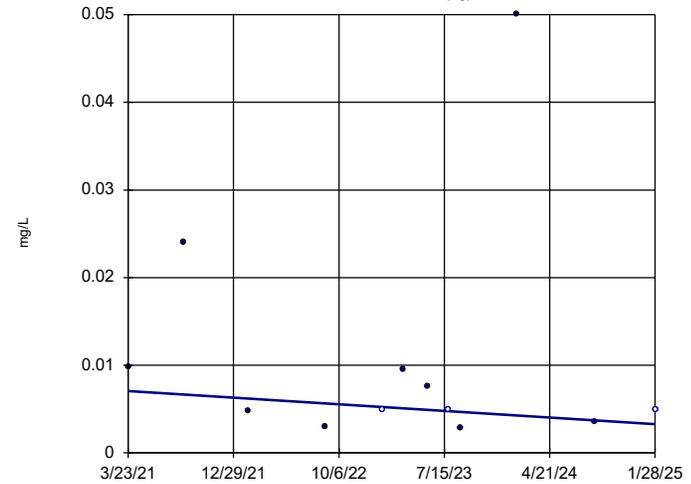
GWA-1A (bg)



Constituent: Zinc Analysis Run 5/5/2025 12:06 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

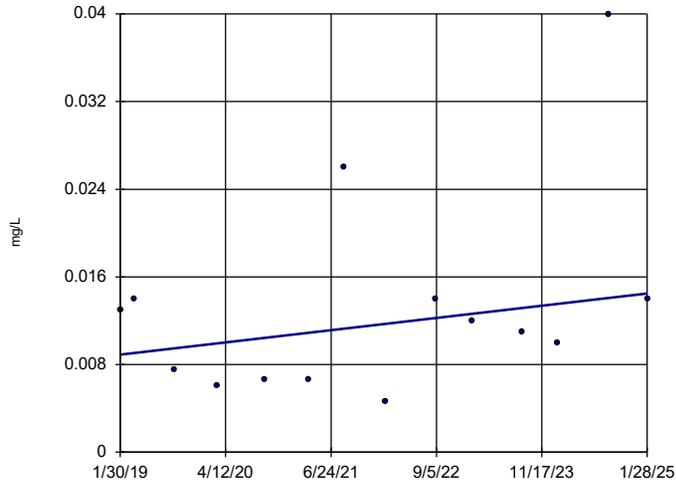
GWA-1B (bg)



Constituent: Zinc Analysis Run 5/5/2025 12:06 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-2B (bg)



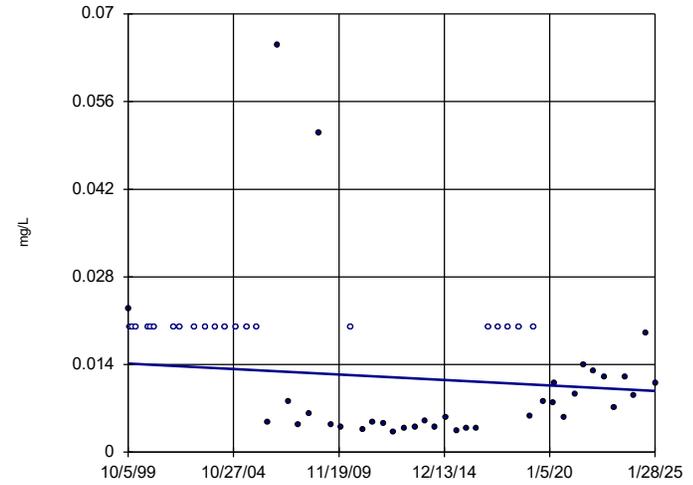
n = 14
 Slope = 0.0009311
 units per year.
 Mann-Kendall
 statistic = 15
 critical = 48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Zinc Analysis Run 5/5/2025 12:06 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-3A (bg)



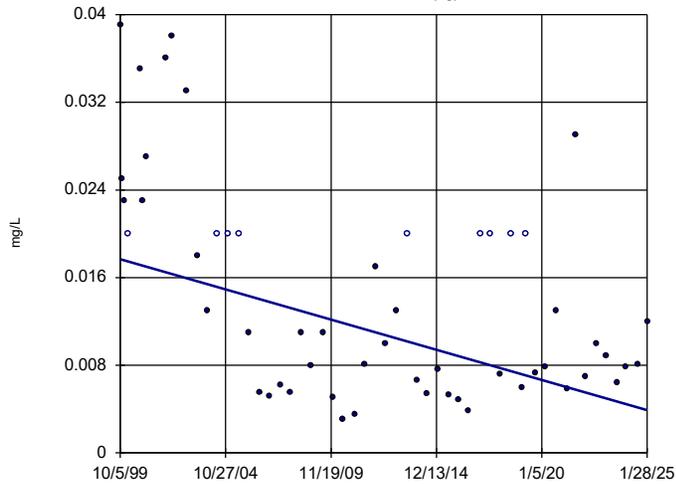
n = 56
 Slope = -0.000171
 units per year.
 Mann-Kendall
 normal approx. =
 -2.494
 critical = -2.58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Zinc Analysis Run 5/5/2025 12:06 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-4 (bg)



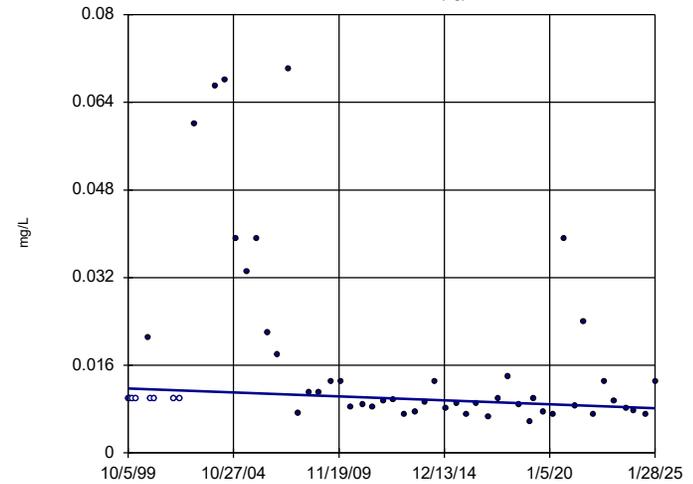
n = 55
 Slope = -0.0005431
 units per year.
 Mann-Kendall
 normal approx. =
 -3.203
 critical = -2.58
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Zinc Analysis Run 5/5/2025 12:06 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-5 (bg)

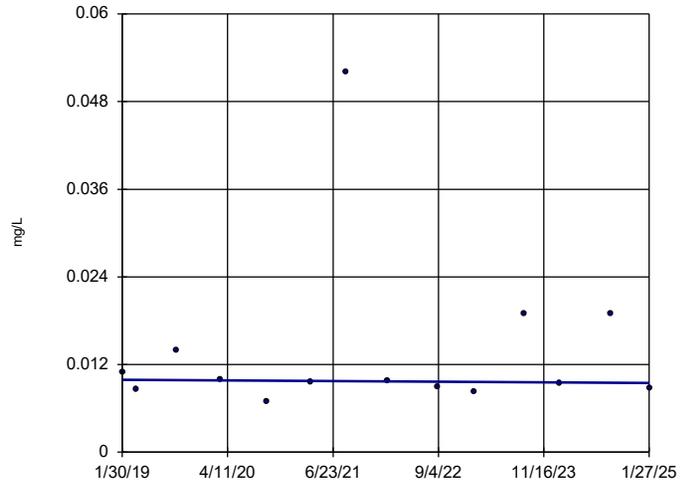


n = 54
 Slope = -0.0001419
 units per year.
 Mann-Kendall
 normal approx. =
 -3.257
 critical = -2.58
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Zinc Analysis Run 5/5/2025 12:06 PM View: Upgradient Wells
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Sen's Slope Estimator

GWA-7A (bg)



n = 14
Slope = -0.00007046
units per year.
Mann-Kendall
statistic = -4
critical = -48
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Zinc Analysis Run 5/5/2025 12:06 PM View: Upgradient Wells
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

FIGURE E.

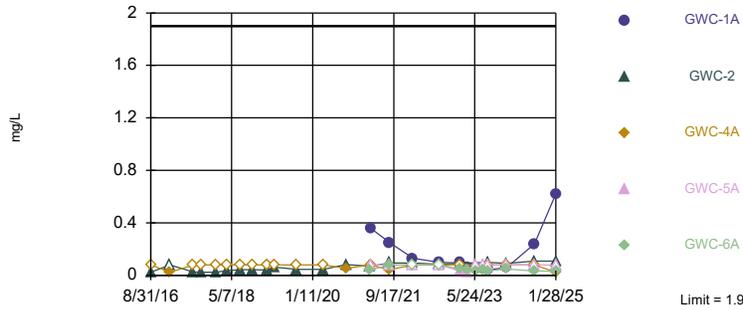
Appendix III - Interwell Prediction Limits - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 Printed 5/5/2025, 12:10 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-1A	1.9	n/a	1/28/2025	0.62	No	128	n/a	n/a	34.38	n/a	n/a	0.0001209	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	1.9	n/a	1/28/2025	0.11	No	128	n/a	n/a	34.38	n/a	n/a	0.0001209	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4A	1.9	n/a	1/28/2025	0.023J	No	128	n/a	n/a	34.38	n/a	n/a	0.0001209	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-5A	1.9	n/a	1/28/2025	0.08ND	No	128	n/a	n/a	34.38	n/a	n/a	0.0001209	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6A	1.9	n/a	1/28/2025	0.032J	No	128	n/a	n/a	34.38	n/a	n/a	0.0001209	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1A	20	n/a	1/28/2025	2.7	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	20	n/a	1/28/2025	3	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4A	20	n/a	1/28/2025	0.53	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5A	20	n/a	1/28/2025	1.7	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6A	20	n/a	1/28/2025	3.2	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1A	34	n/a	1/28/2025	16	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	34	n/a	1/28/2025	5	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4A	34	n/a	1/28/2025	14	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5A	34	n/a	1/28/2025	11	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6A	34	n/a	1/28/2025	11	No	127	n/a	n/a	0	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1A	0.51	n/a	1/28/2025	0.1ND	No	127	n/a	n/a	58.27	n/a	n/a	0.0001227	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-2	0.51	n/a	1/28/2025	0.1ND	No	127	n/a	n/a	58.27	n/a	n/a	0.0001227	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-4A	0.51	n/a	1/28/2025	0.1ND	No	127	n/a	n/a	58.27	n/a	n/a	0.0001227	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-5A	0.51	n/a	1/28/2025	0.1ND	No	127	n/a	n/a	58.27	n/a	n/a	0.0001227	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6A	0.51	n/a	1/28/2025	0.1ND	No	127	n/a	n/a	58.27	n/a	n/a	0.0001227	NP Inter (NDs) 1 of 2
pH, Field (SU)	GWC-1A	5.903	4.086	1/28/2025	4.46	No	211	2.226	0.1142	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH, Field (SU)	GWC-2	5.903	4.086	1/28/2025	5.01	No	211	2.226	0.1142	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH, Field (SU)	GWC-4A	5.903	4.086	1/28/2025	4.69	No	211	2.226	0.1142	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH, Field (SU)	GWC-5A	5.903	4.086	1/28/2025	4.69	No	211	2.226	0.1142	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH, Field (SU)	GWC-6A	5.903	4.086	1/28/2025	5.26	No	211	2.226	0.1142	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
Sulfate (mg/L)	GWC-1A	110	n/a	1/28/2025	5ND	No	127	n/a	n/a	26.77	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	110	n/a	1/28/2025	4.6	No	127	n/a	n/a	26.77	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4A	110	n/a	1/28/2025	1.1	No	127	n/a	n/a	26.77	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5A	110	n/a	1/28/2025	5ND	No	127	n/a	n/a	26.77	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6A	110	n/a	1/28/2025	2.2	No	127	n/a	n/a	26.77	n/a	n/a	0.0001227	NP Inter (normality) 1 of 2
TDS (mg/L)	GWC-1A	166.9	n/a	1/28/2025	58	No	126	7.988	2.749	1.587	None	sqrt(x)	0.001504	Param Inter 1 of 2
TDS (mg/L)	GWC-2	166.9	n/a	1/28/2025	42	No	126	7.988	2.749	1.587	None	sqrt(x)	0.001504	Param Inter 1 of 2
TDS (mg/L)	GWC-4A	166.9	n/a	1/28/2025	37	No	126	7.988	2.749	1.587	None	sqrt(x)	0.001504	Param Inter 1 of 2
TDS (mg/L)	GWC-5A	166.9	n/a	1/28/2025	37	No	126	7.988	2.749	1.587	None	sqrt(x)	0.001504	Param Inter 1 of 2
TDS (mg/L)	GWC-6A	166.9	n/a	1/28/2025	68	No	126	7.988	2.749	1.587	None	sqrt(x)	0.001504	Param Inter 1 of 2

Within Limit

Prediction Limit
Interwell Non-parametric

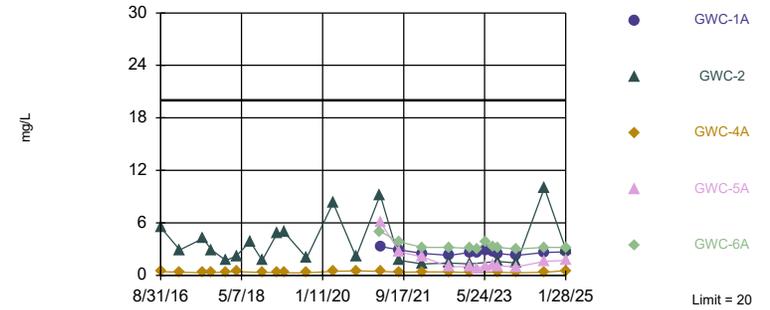


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 128 background values. 34.38% NDs. Annual per-constituent alpha = 0.001209. Individual comparison alpha = 0.0001209 (1 of 2). Comparing 5 points to limit.

Constituent: Boron Analysis Run 5/5/2025 12:09 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Within Limit

Prediction Limit
Interwell Non-parametric

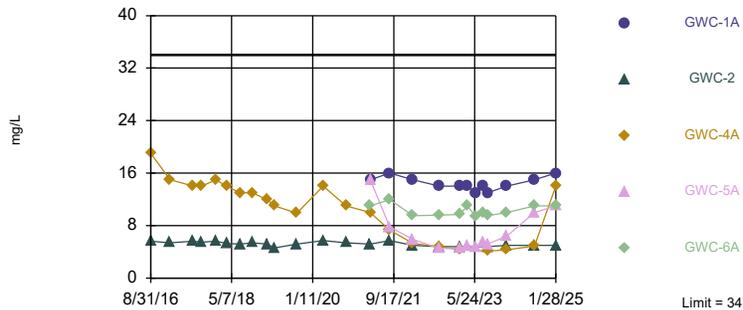


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. Annual per-constituent alpha = 0.001226. Individual comparison alpha = 0.0001227 (1 of 2). Comparing 5 points to limit.

Constituent: Calcium Analysis Run 5/5/2025 12:09 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Within Limit

Prediction Limit
Interwell Non-parametric

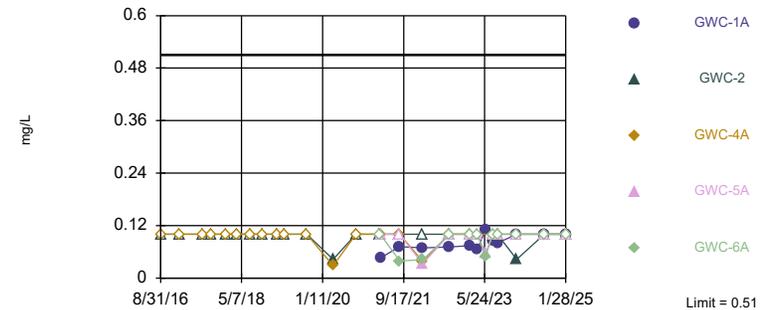


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 127 background values. Annual per-constituent alpha = 0.001226. Individual comparison alpha = 0.0001227 (1 of 2). Comparing 5 points to limit.

Constituent: Chloride Analysis Run 5/5/2025 12:09 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Within Limit

Prediction Limit
Interwell Non-parametric

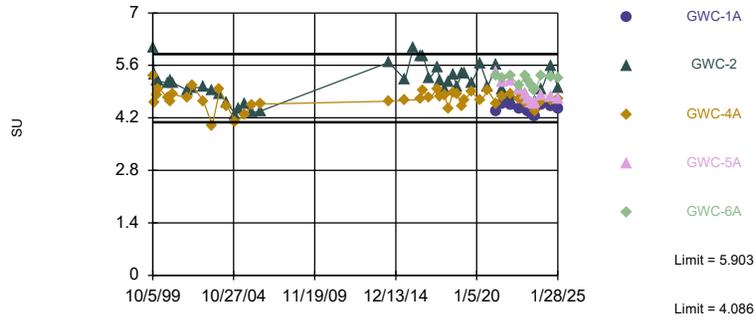


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 127 background values. 58.27% NDs. Annual per-constituent alpha = 0.001226. Individual comparison alpha = 0.0001227 (1 of 2). Comparing 5 points to limit.

Constituent: Fluoride Analysis Run 5/5/2025 12:09 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Within Limits

Prediction Limit
Interwell Parametric



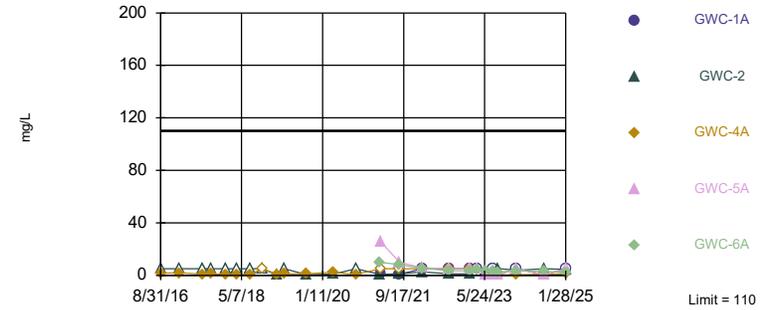
Background Data Summary (based on square root transformation): Mean=2.226, Std. Dev.=0.1142, n=211. Normality test: Chi Squared @alpha = 0.01, calculated = 11.89, critical = 14.07. Kappa = 1.788 (c=7, w=5, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.000752. Comparing 5 points to limit.

Constituent: pH, Field Analysis Run 5/5/2025 12:09 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric



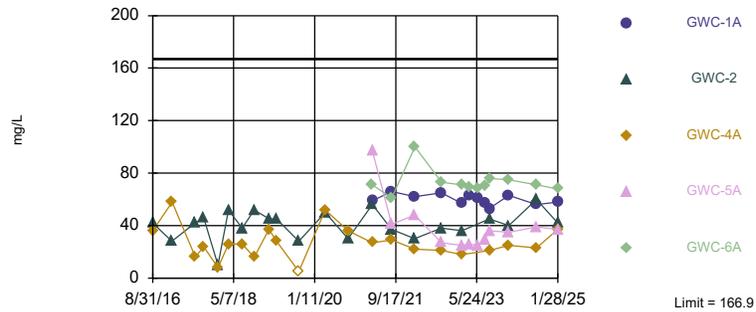
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 127 background values. 26.77% NDs. Annual per-constituent alpha = 0.001226. Individual comparison alpha = 0.0001227 (1 of 2). Comparing 5 points to limit.

Constituent: Sulfate Analysis Run 5/5/2025 12:09 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Parametric



Background Data Summary (based on square root transformation): Mean=7.988, Std. Dev.=2.749, n=126, 1.587% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 8.444, critical = 14.07. Kappa = 1.794 (c=7, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001504. Comparing 5 points to limit.

Constituent: TDS Analysis Run 5/5/2025 12:09 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-2	GWA-4 (bg)	GWA-3A (bg)	GWC-4A	GWA-5 (bg)	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
8/31/2016	0.023 (J)	<0.08	<0.08	<0.08	0.073				
9/1/2016						0.029 (J)			
12/15/2016						<0.08			
1/19/2017		0.027 (J)	<0.08		0.036 (J)				
1/24/2017	<0.08								
1/25/2017				0.023 (J)					
2/28/2017						<0.08			
4/19/2017						<0.08			
7/17/2017						<0.08			
7/18/2017		<0.08	<0.08						
7/19/2017	0.026 (J)				0.07				
7/20/2017				<0.08					
9/20/2017			<0.08			<0.08			
9/21/2017	0.025 (J)	<0.08		<0.08	0.07				
1/8/2018						<0.08			
1/9/2018	0.023 (J)	<0.08	<0.08	<0.08	0.042 (J)				
3/27/2018		<0.08	<0.08		0.037 (J)	<0.08			
3/28/2018				<0.08					
3/29/2018	0.035 (J)								
7/10/2018	0.044 (J)	<0.08	<0.08	<0.08	0.042 (J)	<0.08			
10/8/2018		<0.08			0.044 (J)	<0.08	1.3	0.76	
10/9/2018	0.043 (J)		<0.08	<0.08					
1/30/2019		<0.08	<0.08	<0.08	0.03 (J)	<0.08	1.5	0.77	
1/31/2019	0.04 (J)								
3/27/2019					0.036 (J)	<0.08			
3/28/2019	0.062	<0.08	0.024 (J)	<0.08			1.4	0.83	
9/11/2019						<0.08			
9/12/2019	0.045 (J)	<0.08	<0.08	<0.08	0.048 (J)		1.6	0.65	
3/10/2020		<0.08	0.059 (J)		0.066 (J)	<0.08		0.64	
3/11/2020							1.9		
3/31/2020	0.046 (J)			<0.08					
4/2/2020			0.084						
9/21/2020		0.073 (J)	0.11			0.11	0.61		
9/22/2020	0.083			0.053 (J)	0.097			0.73	
3/23/2021	0.07 (J)		0.088			<0.08	1.5	0.57	0.1
3/24/2021		<0.08		<0.08	0.048 (J)				
8/17/2021		0.045 (J)	0.098		0.067 (J)	0.049 (J)	1.4	0.68	0.11
8/18/2021	0.095			0.043 (J)					
2/7/2022							0.6	0.54	
2/8/2022	0.094	<0.08	0.077 (J)		<0.08	<0.08			0.084
2/9/2022				<0.08					
8/30/2022	0.085	<0.08	0.1	<0.08	<0.08	<0.08	1.2	0.98	0.12
8/31/2022									
1/31/2023							1.3	0.99	0.044 (J)
2/1/2023	0.091	0.023 (J)	0.087	<0.08					
2/2/2023					0.039 (J)				
3/28/2023									0.072 (J)
3/29/2023									
5/30/2023									0.068 (J)
5/31/2023									
7/26/2023									0.032 (J)
8/28/2023		<0.08					1.2		0.035 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-2	GWA-4 (bg)	GWA-3A (bg)	GWC-4A	GWA-5 (bg)	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
8/29/2023	0.1		0.078 (J)	<0.08				0.53	
9/6/2023					0.032 (J)				
1/23/2024	0.092	0.033 (J)	0.073 (J)	<0.08	0.051 (J)		1.2	0.5	0.029 (J)
8/19/2024							1.2	0.37	
8/20/2024	0.11	0.023 (J)	0.072 (J)	<0.08	0.053 (J)				0.055 (J)
1/27/2025							1.1		
1/28/2025	0.11	<0.08	0.058 (J)	0.023 (J)	0.047 (J)			0.65	0.053 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-5A	GWC-1A
8/31/2016			
9/1/2016			
12/15/2016			
1/19/2017			
1/24/2017			
1/25/2017			
2/28/2017			
4/19/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	0.043 (J)		
3/24/2021		<0.08	0.36
8/17/2021			
8/18/2021	0.077 (J)	<0.08	0.25
2/7/2022			
2/8/2022		<0.08	
2/9/2022	<0.08		0.13
8/30/2022			0.099
8/31/2022	<0.08	<0.08	
1/31/2023	0.047 (J)	0.033 (J)	0.094
2/1/2023			
2/2/2023			
3/28/2023			
3/29/2023	0.046 (J)	0.024 (J)	0.063 (J)
5/30/2023			
5/31/2023	0.036 (J)	<0.08	0.054 (J)
7/26/2023	0.039 (J)	<0.08	0.054 (J)
8/28/2023			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-5A	GWC-1A
8/29/2023	0.033 (J)	<0.08	0.042 (J)
9/6/2023			
1/23/2024	0.047 (J)	<0.08	0.06 (J)
8/19/2024			
8/20/2024	0.034 (J)	<0.08	0.24
1/27/2025			
1/28/2025	0.032 (J)	<0.08	0.62

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)	GWC-2	GWC-4A	GWA-1A (bg)	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
8/31/2016	3.7	0.88	1.5	5.5	0.42				
9/1/2016						26 (O)			
12/15/2016						2			
1/19/2017	2	1.1	1.8						
1/24/2017				2.9					
1/25/2017					0.37				
2/28/2017						2.7			
4/19/2017						1.7			
7/17/2017						1.7			
7/18/2017		0.86	1.7						
7/19/2017	2.6			4.2					
7/20/2017					0.29				
9/20/2017			1.7			1.5			
9/21/2017	2.7	0.9		2.9	0.3				
1/8/2018						1.7			
1/9/2018	4.1	1	1.9	1.7	0.38				
3/27/2018	4.8	0.89	1.9			1.7			
3/28/2018					0.44				
3/29/2018				2.2					
7/10/2018	3.7	0.99	1.9	3.9	2 (O)	1.7			
10/8/2018	3.2	1.1				1.6	17	17	
10/9/2018			2.2	1.7	0.34				
1/30/2019	1.7	1	2.4		0.34	1.9	16	15	
1/31/2019				4.8					
3/27/2019	3.1					1.6			
3/28/2019		0.98	2.4	4.9	0.3		16	18	
9/11/2019						1.6			
9/12/2019	1.9	0.84	2.3	2	0.3 (J)		15	19	
3/10/2020	2.9	1.1	2.8			2	14		
3/11/2020								20	
3/31/2020				8.3	0.48 (J)				
4/2/2020			3						
9/21/2020		1.4	3.1			1.8		13	
9/22/2020	2.9			2.1	0.51		16		
3/23/2021			3.6	9.2		1.8	15	19	4
3/24/2021	3.1	1.3			0.46 (J)				
8/17/2021	2.9	1.4	3.5			1.8	15	17	3.9
8/18/2021				1.7	0.37 (J)				
2/7/2022							12	11	
2/8/2022	2.8	1.3	3.3	1.3		1.7			2.7
2/9/2022					0.39 (J)				
8/30/2022	3.4	1.2	3.9	1.4	0.39 (J)	1.8	15	14	5.2
8/31/2022									
1/31/2023							16	15	6.8
2/1/2023		1.4	4.6	1.3	0.34 (J)				
2/2/2023	3.7								
3/28/2023									3
3/29/2023									
5/30/2023									3.3
5/31/2023									
7/26/2023									7.5
8/28/2023		1.3					14		8.6

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)	GWC-2	GWC-4A	GWA-1A (bg)	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
8/29/2023			4.7	1.6	0.37 (J)		13		
9/6/2023	3.7								
1/23/2024	3.2	1.2	4.6	1.4	0.3 (J)		12	12	8.3
8/19/2024							11	13	
8/20/2024	2.8	1.4	5	10	0.36 (J)				2.7
1/27/2025								12	
1/28/2025	3.5	1.5	5.4	3	0.53		14		2.5

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-5A	GWC-1A
8/31/2016			
9/1/2016			
12/15/2016			
1/19/2017			
1/24/2017			
1/25/2017			
2/28/2017			
4/19/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	5		
3/24/2021		6.1	3.3
8/17/2021			
8/18/2021	3.8	2.7	2.9
2/7/2022			
2/8/2022		2.1	
2/9/2022	3.2		2.5
8/30/2022			2.3
8/31/2022	3.2	0.98	
1/31/2023	3.1	1	2.6
2/1/2023			
2/2/2023			
3/28/2023			
3/29/2023	3	0.83	2.6
5/30/2023			
5/31/2023	3.8	1.1	2.8
7/26/2023	3.3	1.2	2.7
8/28/2023			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-5A	GWC-1A
8/29/2023	3.2	1.1	2.5
9/6/2023			
1/23/2024	3	0.96	2.3
8/19/2024			
8/20/2024	3.2	1.6	2.6
1/27/2025			
1/28/2025	3.2	1.7	2.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-3A (bg)	GWC-2	GWA-4 (bg)	GWC-4A	GWA-5 (bg)	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
8/31/2016	6.8	5.6	3.7	19	7.1				
9/1/2016						8			
1/19/2017	6.9		4.6		3.3				
1/24/2017		5.4							
1/25/2017				15					
2/28/2017						8.5			
4/19/2017						7.8			
7/17/2017						7.8			
7/18/2017	7.4		4.2						
7/19/2017		5.6			5.8				
7/20/2017				14					
9/20/2017	7.6					8			
9/21/2017		5.5	4.4	14	6.2				
1/8/2018						7.9			
1/9/2018	8.6	5.6	4.4	15	9.9				
3/27/2018	9.4		4.9		13	8			
3/28/2018				14					
3/29/2018		5.3							
7/10/2018	11	5.2	5.5	13	17	7.8			
10/8/2018			6.6		16	8.5	6.8	7.3	
10/9/2018	14	5.4		13					
1/30/2019	15		6.9	12	6.5	8.2	7.1	7.3	
1/31/2019		5.2							
3/27/2019					9.1	8.1			
3/28/2019	15	4.6	5.7	11			6.1	6.1	
9/11/2019						7.1			
9/12/2019	16	5.2	6.1	9.9	9.1		6.8	7.6	
3/10/2020	19		5		3.7	8.1		8	
3/11/2020							6.9		
3/31/2020		5.7		14					
4/2/2020	20								
9/21/2020	19		5.4			8.1	6.5		
9/22/2020		5.4		11	6.3			8	
3/23/2021	22	5.2				8.6	7.6	7.8	11
3/24/2021			6.2	10	7.4				
8/17/2021	23		6.1		11	9.1	8.3	7.7	
8/18/2021		5.7		7.3					12
2/7/2022							7.6	6.7	
2/8/2022	23	5	6.4		12	8.6			
2/9/2022				5.3					9.5
8/30/2022	26	4.8	4.7	4.8	15	8.5	7.5	5.9	
8/31/2022									9.6
1/31/2023							7.9	6.7	9.7
2/1/2023	30	4.8	4.5	4.3					
2/2/2023					15				
3/28/2023									
3/29/2023									11
5/30/2023									
5/31/2023									9.4
7/26/2023									10
8/28/2023			4.6				7.1		
8/29/2023	29	4.8		4.1				7.9	9.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-3A (bg)	GWC-2	GWA-4 (bg)	GWC-4A	GWA-5 (bg)	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
9/6/2023					14				
1/23/2024	33	5	5.1	4.3	16		7.2	9.6	10
8/19/2024							8.1	11	
8/20/2024	33	5	7.9	4.9	6.9				11
1/27/2025							7		
1/28/2025	34	5	8.5	14	12			9.8	11

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1B (bg)	GWC-5A	GWC-1A
8/31/2016			
9/1/2016			
1/19/2017			
1/24/2017			
1/25/2017			
2/28/2017			
4/19/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	9.9		
3/24/2021		15	15
8/17/2021	10		
8/18/2021		7.8	16
2/7/2022			
2/8/2022	9.5	5.9	
2/9/2022			15
8/30/2022	7.7		14
8/31/2022		4.5	
1/31/2023	8	4.5	14
2/1/2023			
2/2/2023			
3/28/2023	10		
3/29/2023		5	14
5/30/2023	9.1		
5/31/2023		4.8	13
7/26/2023	7.3	5.4	14
8/28/2023	6.8		
8/29/2023		5.2	13

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1B (bg)	GWC-5A	GWC-1A
9/6/2023			
1/23/2024	6.3	6.4	14
8/19/2024			
8/20/2024	9.2	10	15
1/27/2025			
1/28/2025	9.4	11	16

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-3A (bg)	GWC-2	GWA-4 (bg)	GWC-4A	GWA-5 (bg)	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
8/31/2016	<0.1	<0.1	<0.1	<0.1	0.13 (J)				
9/1/2016						<0.1			
1/19/2017	<0.1		0.089 (J)		<0.1				
1/24/2017		<0.1							
1/25/2017				<0.1					
2/28/2017						0.098 (J)			
4/19/2017						<0.1			
7/17/2017						<0.1			
7/18/2017	<0.1		<0.1						
7/19/2017		<0.1			<0.1				
7/20/2017				<0.1					
9/20/2017	<0.1					<0.1			
9/21/2017		<0.1	<0.1	<0.1	0.13 (J)				
1/8/2018						<0.1			
1/9/2018	<0.1	<0.1	<0.1	<0.1	0.13 (J)				
3/27/2018	<0.1		<0.1		0.21	<0.1			
3/28/2018				<0.1					
3/29/2018		<0.1							
7/10/2018	<0.1	<0.1	<0.1	<0.1	0.17 (J)	<0.1			
10/8/2018			<0.1		0.11 (J)	<0.1	<0.1	<0.1	
10/9/2018	<0.1	<0.1		<0.1					
1/30/2019	<0.1		0.029 (J)	<0.1	0.089 (J)	<0.1	<0.1	<0.1	
1/31/2019		<0.1							
3/27/2019					0.1 (J)	<0.1			
3/28/2019	<0.1	<0.1	<0.1	<0.1			<0.1	<0.1	
9/11/2019						<0.1			
9/12/2019	<0.1	<0.1	0.035 (J)	<0.1	0.052 (J)		<0.1	0.036 (J)	
3/10/2020	0.026 (J)		0.066 (J)		0.051 (J)	<0.1		<0.1	
3/11/2020							<0.1		
3/31/2020		0.043 (J)		0.028 (J)					
4/2/2020	0.051 (J)								
9/21/2020	<0.1		0.06 (J)			<0.1	<0.1		
9/22/2020		<0.1		<0.1	0.049 (J)			0.039 (J)	
3/23/2021	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
3/24/2021			0.12	<0.1	0.08 (J)				
8/17/2021	0.064 (J)		0.061 (J)		0.097 (J)	0.038 (J)	0.033 (J)	0.083 (J)	
8/18/2021		<0.1		<0.1					0.039 (J)
2/7/2022							<0.1	0.027 (J)	
2/8/2022	0.033 (J)	<0.1	0.061 (J)		0.12	<0.1			
2/9/2022				0.038 (J)					0.042 (J)
8/30/2022	<0.1	<0.1	0.047 (J)	<0.1	0.11	<0.1	<0.1	<0.1	
8/31/2022									<0.1
1/31/2023							<0.1	<0.1	<0.1
2/1/2023	<0.1	<0.1	0.043 (J)	<0.1					
2/2/2023					0.12				
3/28/2023									
3/29/2023									<0.1
5/30/2023									
5/31/2023									0.05 (J)
7/26/2023									<0.1
8/28/2023			0.051 (J)				<0.1		
8/29/2023	<0.1	<0.1		<0.1				<0.1	<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-3A (bg)	GWC-2	GWA-4 (bg)	GWC-4A	GWA-5 (bg)	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
9/6/2023					0.15				
1/23/2024	0.049 (J)	0.043 (J)	0.077 (J)	<0.1	0.15		<0.1	<0.1	<0.1
8/19/2024							<0.1	<0.1	
8/20/2024	<0.1	<0.1	<0.1	<0.1	0.13				<0.1
1/27/2025							<0.1		
1/28/2025	<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1B (bg)	GWC-5A	GWC-1A
8/31/2016			
9/1/2016			
1/19/2017			
1/24/2017			
1/25/2017			
2/28/2017			
4/19/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	0.079 (J)		
3/24/2021		<0.1	0.046 (J)
8/17/2021	0.09 (J)		
8/18/2021		<0.1	0.072 (J)
2/7/2022			
2/8/2022	0.077 (J)	0.033 (J)	
2/9/2022			0.069 (J)
8/30/2022	0.51		0.071 (J)
8/31/2022		<0.1	
1/31/2023	0.13	<0.1	0.074 (J)
2/1/2023			
2/2/2023			
3/28/2023	0.04 (J)		
3/29/2023		<0.1	0.066 (J)
5/30/2023	0.067 (J)		
5/31/2023		0.056 (J)	0.11
7/26/2023	0.19	<0.1	0.085 (J)
8/28/2023	0.21		
8/29/2023		<0.1	0.08 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1B (bg)	GWC-5A	GWC-1A
9/6/2023			
1/23/2024	0.24	<0.1	0.1
8/19/2024			
8/20/2024	<0.1	<0.1	<0.1
1/27/2025			
1/28/2025	<0.1	<0.1	<0.1

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/5/2025 12:10 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-3A (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-4 (bg)	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
10/5/1999	6.63	6.42	6.3	5.33	6.08	6.51			
11/12/1999	5.51	5.03	4.72	4.6	5.35	5.46			
12/29/1999	5.23	4.92	4.8	4.8	5.19	5.13			
2/17/2000	5.29	5.13	4.78	4.98	5.18	5.22			
9/13/2000	5.41	4.85	4.58	4.75	5.13	4.86			
11/10/2000	5.47	5.05	4.5	4.65	5.2	5.29			
1/4/2001	5.44	5.08	4.61	4.83	5.14	5.53			
12/11/2001	4.86	4.81	4.87	4.73	4.93	5.37			
4/4/2002	5.1	4.92	4.96	5.05	5	5.32			
12/6/2002	5.05	5.07	4.4	4.65	5.02	5.45			
6/28/2003	4.91	4.69	3.77	4	4.92	4.73			
12/13/2003	4.87	4.81	4.25	4.97	4.82	4.53			
5/28/2004	4.98	3.93	3.9	4.51	4.6	4.22			
12/10/2004	4.35	4.25	3.71	4.09	4.29	4.26			
2/5/2005					4.43				
6/24/2005	4.82	4.5	3.94	4.27	4.56	4.47			
12/13/2005	4.66	4.52	3.94	4.54	4.34	4.47			
6/26/2006			5.56	4.57	4.38				
6/27/2006	5.49	3.59				3.68			
7/11/2014	5.55			4.64					
7/12/2014		5.44	3.88		5.68	5.33			
7/15/2015	5.13	4.98	4.19	4.67	5.22	4.94			
1/16/2016	5.06	4.87	4.35			4.85			
1/17/2016					6.07				
6/22/2016	5.15	4.92	4.64	4.69	5.84	5.09			
8/31/2016		4.92	4.53	4.92	5.84	4.79			
12/15/2016	4.92								
1/19/2017		4.86	4.79			4.72			
1/24/2017					5.25				
1/25/2017				4.73					
2/28/2017	5.33								
7/17/2017	5.09								
7/18/2017		5.02				4.96			
7/19/2017			4.83		5.54				
7/20/2017				4.96					
9/20/2017	5.29	4.72							
9/21/2017			4.57	4.78	5.19	4.7			
1/8/2018	5.26	4.92							
1/9/2018		4.83	4.4	4.79	4.97	4.91			
3/27/2018	5.27	4.91	4.11			4.92			
3/28/2018				4.44					
3/29/2018					5.15				
7/10/2018	5.17	4.87	4.62	4.88	5.37	4.94			
10/8/2018	5.18		4.51			4.76	5.29	5.79	
10/9/2018		4.84		4.85	5.04				
1/30/2019	5.17	4.88	4.72	4.52		4.94	5.08	5.15	
1/31/2019					5.38				
3/27/2019	5.09		4.56						
3/28/2019		4.8		4.68	5.38	4.99	4.93	5.62	
9/11/2019	5.1								
9/12/2019		4.99	4.54	4.89	5.14	4.92	5.57	5.1	
3/10/2020	5.48	4.79	4.81			4.59	5.56		

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/5/2025 12:10 PM View: Appendix III
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-3A (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-4 (bg)	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
3/11/2020								5.05	
3/31/2020				4.66 (D)	5.64				
4/2/2020		4.75							
9/21/2020	4.95	4.69				4.6		5.35	
9/22/2020			4.99	4.92	5.04		5.83		
3/23/2021	5.17	4.6			5.61		5.61	5.01	5.63
3/24/2021			4.37	4.59		4.42			
8/17/2021	5.24	4.76	4.63			4.78	5.82	5.51	5.83
8/18/2021				4.76	4.98				
2/7/2022							5.7	5.29	
2/8/2022	5.17	4.69	4.67		4.79	4.93			5.43
2/9/2022				4.82 (D)					
8/30/2022	5.01	4.71	4.51	4.71	4.96	4.72	4.9	5	5.86
8/31/2022									
1/31/2023							5.07	5	6.15
2/1/2023		4.52		4.6	4.83	4.77			
2/2/2023			4.59						
3/28/2023									5.73
3/29/2023									
5/30/2023									5.89
5/31/2023									
7/26/2023									5.86
8/28/2023						4.34		4.91	5.72
8/29/2023		4.46		4.39	4.63		5.78		
9/6/2023			4.32						
1/23/2024		4.65	4.66	4.64	4.96	4.98	5.14	5.01	6.52
8/19/2024							5.7	5.16	
8/20/2024		4.96	4.62	4.68	5.6	4.81			5.71
1/27/2025								5.18	
1/28/2025		4.52	4.5	4.69	5.01	4.88	5		5.5

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

GWC-6A GWC-1A GWC-5A

10/5/1999
11/12/1999
12/29/1999
2/17/2000
9/13/2000
11/10/2000
1/4/2001
12/11/2001
4/4/2002
12/6/2002
6/28/2003
12/13/2003
5/28/2004
12/10/2004
2/5/2005
6/24/2005
12/13/2005
6/26/2006
6/27/2006
7/11/2014
7/12/2014
7/15/2015
1/16/2016
1/17/2016
6/22/2016
8/31/2016
12/15/2016
1/19/2017
1/24/2017
1/25/2017
2/28/2017
7/17/2017
7/18/2017
7/19/2017
7/20/2017
9/20/2017
9/21/2017
1/8/2018
1/9/2018
3/27/2018
3/28/2018
3/29/2018
7/10/2018
10/8/2018
10/9/2018
1/30/2019
1/31/2019
3/27/2019
3/28/2019
9/11/2019
9/12/2019
3/10/2020

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-1A	GWC-5A
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	5.31		
3/24/2021		4.38	5.42
8/17/2021			
8/18/2021	5.26	4.59	5.17
2/7/2022			
2/8/2022			5.2
2/9/2022	5.31	4.53	
8/30/2022		4.43	
8/31/2022	5.07		4.97
1/31/2023	5.32	4.43	4.85
2/1/2023			
2/2/2023			
3/28/2023			
3/29/2023	5.18	4.38	4.69
5/30/2023			
5/31/2023	5.07	4.31	4.62
7/26/2023	4.93	4.26	4.57
8/28/2023			
8/29/2023	4.96	4.25	4.6
9/6/2023			
1/23/2024	5.32	4.55	4.8
8/19/2024			
8/20/2024	5.3	4.52	4.78
1/27/2025			
1/28/2025	5.26	4.46	4.69

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-3A (bg)	GWC-2	GWA-4 (bg)	GWC-4A	GWA-5 (bg)	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
8/31/2016	<5	<5	7	1.7	21				
9/1/2016						<5			
1/19/2017	<5		6.3		11				
1/24/2017		<5							
1/25/2017				1.8					
2/28/2017						2.7			
4/19/2017						<5			
7/17/2017						<5			
7/18/2017	<5		4.7						
7/19/2017		<5			12				
7/20/2017				0.83 (J)					
9/20/2017	<5					<5			
9/21/2017		<5	4.5	1.1	15				
1/8/2018						<5			
1/9/2018	<5	<5	3	0.79 (J)	25				
3/27/2018	<5		3.8		31	<5			
3/28/2018				0.79 (J)					
3/29/2018		<5							
7/10/2018	<5	<5	3.4	0.76 (J)	19	<5			
10/8/2018			3.4		17	<5	75	73	
10/9/2018	<5	<5		<5					
1/30/2019	0.41 (J)		3.5	0.9 (J)	15	1.2	85	74	
1/31/2019		0.57 (J)							
3/27/2019					20	<5			
3/28/2019	0.44 (J)	<5	3	1.1			85	71	
9/11/2019						<5			
9/12/2019	0.69 (J)	0.43 (J)	3.7	1.1	10		81	59	
3/10/2020	3		7.2		15	1.5		57	
3/11/2020							110		
3/31/2020		1		2.5					
4/2/2020	<5								
9/21/2020	<5		5			<5	49		
9/22/2020		<5		0.76 (J)	12			52	
3/23/2021	<5	0.8 (J)				<5	88	49	10
3/24/2021			7	<5	16				
8/17/2021	<5		5		11	<5	84	54	
8/18/2021		1.2		<5					8.3
2/7/2022							54	42	
2/8/2022	<5	2.7	5.9		13	<5			
2/9/2022				<5					5.4
8/30/2022	<5	1.1	3.5	<5	13	<5	73	74	
8/31/2022									3.5
1/31/2023							74	71	3.3
2/1/2023	<5	1.3	3.1	<5					
2/2/2023					15				
3/28/2023									
3/29/2023									4
5/30/2023									
5/31/2023									3.3
7/26/2023									3.2
8/28/2023			3.2				67		
8/29/2023	<5	5.2		0.57 (J)				42	2.7

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-3A (bg)	GWC-2	GWA-4 (bg)	GWC-4A	GWA-5 (bg)	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
9/6/2023					14				
1/23/2024	<5	3.8	3.3	0.41 (J)	14		66	54	3.3
8/19/2024							77	32	
8/20/2024	<5	5.1	4	0.95 (J)	19				3.2
1/27/2025							65		
1/28/2025	<5	4.6	3.4	1.1	18			65	2.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1B (bg)	GWC-5A	GWC-1A
8/31/2016			
9/1/2016			
1/19/2017			
1/24/2017			
1/25/2017			
2/28/2017			
4/19/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	6.8		
3/24/2021		26	1
8/17/2021	5.2		
8/18/2021		10	0.84 (J)
2/7/2022			
2/8/2022	2.8	5.9	
2/9/2022			<5
8/30/2022	1.6		<5
8/31/2022		<5	
1/31/2023	1	<5	<5
2/1/2023			
2/2/2023			
3/28/2023	2		
3/29/2023		<5	<5
5/30/2023	2		
5/31/2023		0.71 (J)	0.43 (J)
7/26/2023	1.5	0.43 (J)	<5
8/28/2023	1.4		
8/29/2023		0.48 (J)	0.4 (J)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1B (bg)	GWC-5A	GWC-1A
9/6/2023			
1/23/2024	1.4	<5	<5
8/19/2024			
8/20/2024	0.78 (J)	0.52 (J)	0.48 (J)
1/27/2025			
1/28/2025	0.7 (J)	<5	<5

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-4 (bg)	GWC-2	GWC-4A	GWA-5 (bg)	GWA-3A (bg)	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
8/31/2016	14	42	36	66	42				
9/1/2016						2200 (O)			
1/19/2017	34			48	52				
1/24/2017		28							
1/25/2017			58						
2/28/2017						74			
4/19/2017						8			
7/17/2017						50			
7/18/2017	26				32				
7/19/2017		42		48					
7/20/2017			16						
9/20/2017					16	26			
9/21/2017	24	46	24	76					
1/8/2018						16			
1/9/2018	16	10	8	18	4 (J)				
3/27/2018	<10			48	30	40			
3/28/2018			26						
3/29/2018		52							
7/10/2018	14	38	26	76	30	90			
10/8/2018	36			8		70	180	170	
10/9/2018		52	16		56				
1/30/2019	40		37	67	41	82	180	140	
1/31/2019		45							
3/27/2019				70		66			
3/28/2019	24	45	28		36		170	150	
9/11/2019						53			
9/12/2019	10	28	<10	20	<10		140	89	
3/10/2020	39			67	49	67		130	
3/11/2020							180		
3/31/2020		50	52						
4/2/2020					61				
9/21/2020	31				61	31	130		
9/22/2020		30	36	53				110	
3/23/2021		56			76	47	180	130	63
3/24/2021	36		27	60					
8/17/2021	33			50	83	36	160	130	43
8/18/2021		37	29						
2/7/2022							150	120	
2/8/2022	29	30		57	62	45			39
2/9/2022			22						
8/30/2022	40	38	21	64	87	55	160	150	79
8/31/2022									
1/31/2023							150	140	76
2/1/2023	34	36	18		85				
2/2/2023				65					
3/28/2023									48
3/29/2023									
5/30/2023									51
5/31/2023									
7/26/2023									84
8/28/2023	48						140		85
8/29/2023		45	21		85			110	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-4 (bg)	GWC-2	GWC-4A	GWA-5 (bg)	GWA-3A (bg)	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
9/6/2023				66					
1/23/2024	32	40	25	68	99		140	120	100
8/19/2024							130	98	
8/20/2024	40	60	23	53	94				50
1/27/2025							130		
1/28/2025	37	42	37	58	98			120	52

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-1A	GWC-5A
8/31/2016			
9/1/2016			
1/19/2017			
1/24/2017			
1/25/2017			
2/28/2017			
4/19/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	71		
3/24/2021		59	97
8/17/2021			
8/18/2021	61	66	41
2/7/2022			
2/8/2022			48
2/9/2022	100	62	
8/30/2022		65	
8/31/2022	73		27
1/31/2023	71	57	25
2/1/2023			
2/2/2023			
3/28/2023			
3/29/2023	69	63	26
5/30/2023			
5/31/2023	68	61	25
7/26/2023	70	57	29
8/28/2023			
8/29/2023	76	53	36

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/5/2025 12:10 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-1A	GWC-5A
9/6/2023			
1/23/2024	75	63	35
8/19/2024			
8/20/2024	71	56	39
1/27/2025			
1/28/2025	68	58	37

FIGURE F.

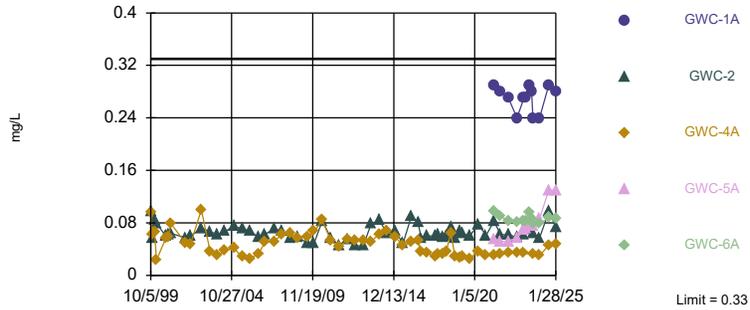
Appendix I - Interwell Prediction Limits - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 Printed 5/5/2025, 12:15 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-1A	0.33	n/a	1/28/2025	0.28	No	275	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-2	0.33	n/a	1/28/2025	0.074	No	275	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-4A	0.33	n/a	1/28/2025	0.047	No	275	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-5A	0.33	n/a	1/28/2025	0.13	No	275	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-6A	0.33	n/a	1/28/2025	0.086	No	275	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Beryllium (mg/L)	GWC-1A	0.0036	n/a	1/28/2025	0.00045J	No	275	n/a	n/a	61.09	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-2	0.0036	n/a	1/28/2025	0.00041J	No	275	n/a	n/a	61.09	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-4A	0.0036	n/a	1/28/2025	0.0025ND	No	275	n/a	n/a	61.09	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-5A	0.0036	n/a	1/28/2025	0.00046J	No	275	n/a	n/a	61.09	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-6A	0.0036	n/a	1/28/2025	0.00035J	No	275	n/a	n/a	61.09	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1A	0.032	n/a	1/28/2025	0.0028	No	273	n/a	n/a	50.55	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.032	n/a	1/28/2025	0.0019J	No	273	n/a	n/a	50.55	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-4A	0.032	n/a	1/28/2025	0.002ND	No	273	n/a	n/a	50.55	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-5A	0.032	n/a	1/28/2025	0.002ND	No	273	n/a	n/a	50.55	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-6A	0.032	n/a	1/28/2025	0.002	No	273	n/a	n/a	50.55	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-1A	0.0072	n/a	1/28/2025	0.0047	No	271	n/a	n/a	43.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-2	0.0072	n/a	1/28/2025	0.0017J	No	271	n/a	n/a	43.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-4A	0.0072	n/a	1/28/2025	0.00061J	No	271	n/a	n/a	43.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-5A	0.0072	n/a	1/28/2025	0.0036	No	271	n/a	n/a	43.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-6A	0.0072	n/a	1/28/2025	0.00095J	No	271	n/a	n/a	43.17	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Copper (mg/L)	GWC-1A	0.008	n/a	1/28/2025	0.002ND	No	253	n/a	n/a	77.08	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-2	0.008	n/a	1/28/2025	0.002ND	No	253	n/a	n/a	77.08	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-4A	0.008	n/a	1/28/2025	0.002ND	No	253	n/a	n/a	77.08	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1A	0.016	n/a	1/28/2025	0.001ND	No	274	n/a	n/a	78.47	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.016	n/a	1/28/2025	0.001ND	No	274	n/a	n/a	78.47	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-5A	0.016	n/a	1/28/2025	0.001ND	No	274	n/a	n/a	78.47	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-6A	0.016	n/a	1/28/2025	0.001ND	No	274	n/a	n/a	78.47	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1A	0.03	n/a	1/28/2025	0.002ND	No	254	n/a	n/a	72.05	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.03	n/a	1/28/2025	0.002ND	No	254	n/a	n/a	72.05	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-4A	0.03	n/a	1/28/2025	0.002ND	No	254	n/a	n/a	72.05	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWC-1A	0.074	n/a	1/28/2025	0.021	No	255	n/a	n/a	23.14	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.074	n/a	1/28/2025	0.0083	No	255	n/a	n/a	23.14	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-4A	0.074	n/a	1/28/2025	0.0062	No	255	n/a	n/a	23.14	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-5A	0.074	n/a	1/28/2025	0.018	No	255	n/a	n/a	23.14	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-6A	0.074	n/a	1/28/2025	0.0047J	No	255	n/a	n/a	23.14	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

Within Limit

Prediction Limit Interwell Non-parametric

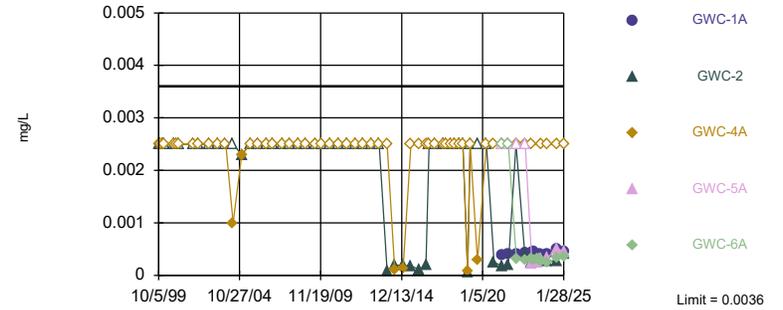


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 275 background values. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Barium Analysis Run 5/5/2025 12:14 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Within Limit

Prediction Limit Interwell Non-parametric

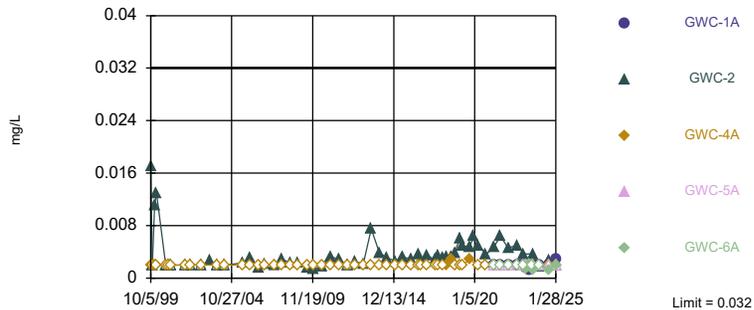


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 275 background values. 61.09% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Beryllium Analysis Run 5/5/2025 12:14 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Within Limit

Prediction Limit Interwell Non-parametric

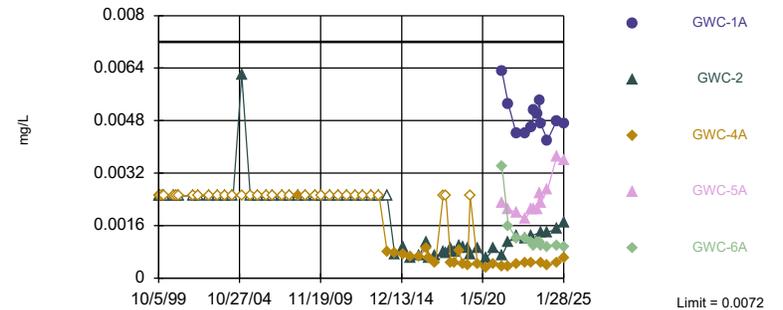


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 273 background values. 50.55% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Chromium Analysis Run 5/5/2025 12:14 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Within Limit

Prediction Limit Interwell Non-parametric

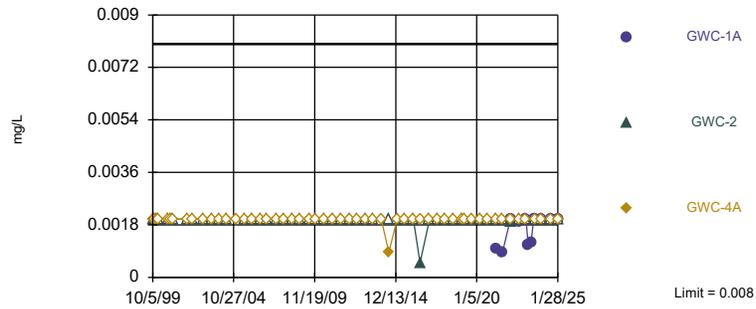


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 271 background values. 43.17% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Cobalt Analysis Run 5/5/2025 12:14 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Within Limit

Prediction Limit
Interwell Non-parametric

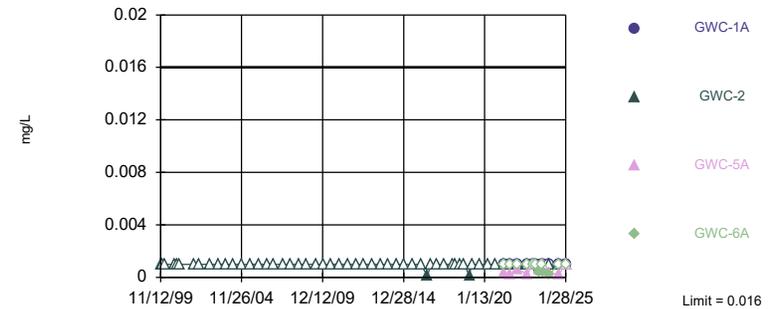


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 253 background values. 77.08% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 3 points to limit. Assumes 2 future values.

Constituent: Copper Analysis Run 5/5/2025 12:14 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Within Limit

Prediction Limit
Interwell Non-parametric

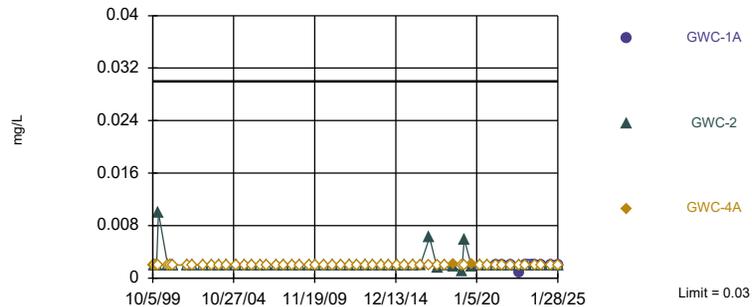


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 274 background values. 78.47% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 4 points to limit. Assumes 1 future value.

Constituent: Lead Analysis Run 5/5/2025 12:14 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Within Limit

Prediction Limit
Interwell Non-parametric

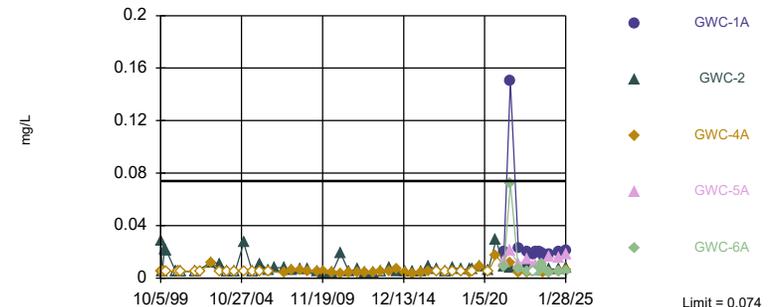


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 254 background values. 72.05% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 3 points to limit. Assumes 2 future values.

Constituent: Vanadium Analysis Run 5/5/2025 12:14 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Within Limit

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 255 background values. 23.14% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Zinc Analysis Run 5/5/2025 12:14 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-3A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	0.084	0.013	0.1	0.097	0.095	0.031			
11/12/1999	0.099	0.017	0.086	0.057	0.063	0.023			
12/29/1999	0.18	0.027	0.12	0.084	0.066	0.033			
2/17/2000	0.12	0.023	0.13	0.079	0.023	0.026			
9/13/2000	0.038	0.022	0.18			0.044			
9/14/2000				0.06	0.056				
11/10/2000	0.065	0.035	0.18	0.062	0.059	0.044			
1/3/2001		0.032	0.23						
1/4/2001	0.037			0.064	0.079	0.043			
12/10/2001	0.027	0.032	0.12						
12/11/2001				0.057	0.049	0.041			
4/4/2002	0.027	0.03	0.094	0.06	0.048	0.038			
12/6/2002	0.028				0.1				
12/9/2002		0.041	0.33	0.072		0.044			
6/28/2003	0.054	0.035	0.11	0.066	0.036	0.045			
12/13/2003	0.027	0.029	0.057	0.063	0.031	0.039			
5/28/2004	0.18								
5/29/2004		0.033	0.035	0.067	0.038	0.042			
12/11/2004	0.1	0.037	0.04			0.045			
12/12/2004				0.075	0.041				
6/24/2005	0.045	0.034	0.037			0.042			
6/25/2005				0.071	0.028				
12/13/2005	0.048	0.03	0.039	0.068	0.025	0.043			
6/26/2006			0.042	0.058	0.033				
6/27/2006	0.13	0.03				0.043			
12/1/2006	0.14	0.032	0.044			0.041			
12/2/2006				0.063	0.051				
6/21/2007		0.03	0.058			0.043			
6/22/2007	0.2			0.071	0.052				
12/14/2007				0.068	0.062				
12/15/2007	0.14	0.034	0.073			0.045			
6/21/2008		0.037			0.065				
6/22/2008	0.1		0.096	0.057		0.05			
12/6/2008		0.034	0.094	0.058	0.056	0.14			
12/7/2008	0.043								
7/10/2009						0.046			
7/11/2009	0.13	0.037	0.12	0.05	0.059				
12/22/2009			0.089						
12/23/2009	0.17	0.058		0.05	0.067	0.049			
6/23/2010		0.046	0.081	0.083	0.084	0.043			
6/24/2010	0.045								
1/8/2011		0.036	0.097	0.057	0.053	0.047			
1/9/2011	0.11								
7/10/2011		0.031	0.084	0.046	0.043	0.035			
7/11/2011	0.022								
1/19/2012		0.045				0.05			
1/20/2012	0.043		0.099	0.055	0.054				
7/12/2012		0.039	0.12	0.045	0.053	0.042			
7/13/2012	0.05								
1/21/2013	0.11	0.042	0.095	0.045	0.053	0.048			
7/20/2013	0.04	0.054	0.086	0.079	0.052	0.047			
1/17/2014	0.082	0.057	0.14	0.084	0.063	0.049			

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-3A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
7/11/2014					0.068				
7/12/2014	0.034	0.042	0.17	0.065		0.043			
1/15/2015		0.041		0.067		0.05			
1/16/2015	0.029		0.12		0.059				
7/15/2015	0.025	0.04	0.12	0.049	0.045	0.044			
1/16/2016	0.026	0.04	0.12			0.048			
1/17/2016				0.09	0.052				
6/22/2016	0.0485	0.0453	0.0839	0.0806	0.0528	0.0486			
8/31/2016		0.041	0.093	0.057	0.037	0.043			
9/1/2016	0.86 (O)								
12/15/2016	0.054								
1/19/2017		0.052	0.079			0.052			
1/24/2017				0.06					
1/25/2017					0.034				
2/28/2017	0.027								
4/19/2017	0.023								
7/17/2017	0.022								
7/18/2017		0.037				0.046			
7/19/2017			0.085	0.06					
7/20/2017					0.028				
9/20/2017	0.023					0.053			
9/21/2017		0.042	0.1	0.063	0.032				
1/8/2018	0.022								
1/9/2018		0.043	0.13	0.059	0.033	0.05			
3/27/2018	0.023	0.039	0.18			0.054			
3/28/2018					0.037				
3/29/2018				0.06					
7/10/2018	0.024	0.043	0.14	0.073	0.065	0.056			
10/8/2018	0.03	0.042	0.11				0.14	0.049	
10/9/2018				0.057	0.029	0.061			
1/30/2019	0.024	0.04	0.079		0.027	0.071	0.1	0.041	
1/31/2019				0.067					
3/27/2019	0.021		0.12						
3/28/2019		0.041		0.064	0.028	0.068	0.1	0.035	
9/11/2019	0.022								
9/12/2019		0.044	0.086	0.06	0.026	0.073	0.077	0.049	
3/10/2020	0.018	0.058	0.081			0.082		0.047	
3/11/2020							0.067		
3/31/2020				0.077	0.036				
4/2/2020						0.088			
9/21/2020	0.023	0.052				0.083	0.11		
9/22/2020			0.078	0.061	0.031			0.049	
3/23/2021	0.023			0.083		0.093	0.048	0.044	0.021
3/24/2021		0.052	0.096		0.031				
8/17/2021	0.025	0.056	0.094			0.095	0.054	0.047	0.022
8/18/2021				0.062	0.032				
2/7/2022							0.096	0.047	
2/8/2022	0.024	0.054	0.1	0.062		0.1			0.019
2/9/2022					0.034				
8/30/2022	0.023	0.046	0.13	0.058	0.035	0.11	0.047	0.03	0.022
8/31/2022									
1/31/2023							0.043	0.036	0.024

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-3A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
2/1/2023		0.05		0.063	0.034	0.13			
2/2/2023			0.13						
3/28/2023									0.018
3/29/2023									0.019
5/30/2023									0.026
5/31/2023									0.023
7/26/2023									
8/28/2023		0.047					0.044		
8/29/2023				0.065	0.032	0.12		0.045	
9/6/2023			0.12						
1/23/2024		0.045	0.12	0.057	0.03	0.13	0.041	0.037	0.021
8/19/2024							0.047	0.063	
8/20/2024		0.057	0.11	0.097	0.046	0.14			0.018
1/27/2025							0.044		
1/28/2025		0.058	0.13	0.074	0.047	0.16		0.054	0.015

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-5A	GWC-1A
10/5/1999			
11/12/1999			
12/29/1999			
2/17/2000			
9/13/2000			
9/14/2000			
11/10/2000			
1/3/2001			
1/4/2001			
12/10/2001			
12/11/2001			
4/4/2002			
12/6/2002			
12/9/2002			
6/28/2003			
12/13/2003			
5/28/2004			
5/29/2004			
12/11/2004			
12/12/2004			
6/24/2005			
6/25/2005			
12/13/2005			
6/26/2006			
6/27/2006			
12/1/2006			
12/2/2006			
6/21/2007			
6/22/2007			
12/14/2007			
12/15/2007			
6/21/2008			
6/22/2008			
12/6/2008			
12/7/2008			
7/10/2009			
7/11/2009			
12/22/2009			
12/23/2009			
6/23/2010			
6/24/2010			
1/8/2011			
1/9/2011			
7/10/2011			
7/11/2011			
1/19/2012			
1/20/2012			
7/12/2012			
7/13/2012			
1/21/2013			
7/20/2013			
1/17/2014			

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-5A	GWC-1A
7/11/2014			
7/12/2014			
1/15/2015			
1/16/2015			
7/15/2015			
1/16/2016			
1/17/2016			
6/22/2016			
8/31/2016			
9/1/2016			
12/15/2016			
1/19/2017			
1/24/2017			
1/25/2017			
2/28/2017			
4/19/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	0.098		
3/24/2021		0.055	0.29
8/17/2021			
8/18/2021	0.09	0.052	0.28
2/7/2022			
2/8/2022		0.052	
2/9/2022	0.083		0.27
8/30/2022			0.24
8/31/2022	0.081	0.057	
1/31/2023	0.083	0.07	0.27

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-5A	GWC-1A
2/1/2023			
2/2/2023			
3/28/2023			
3/29/2023	0.082	0.071	0.27
5/30/2023			
5/31/2023	0.096	0.076	0.29
7/26/2023	0.086	0.082	0.28
8/28/2023			
8/29/2023	0.079	0.076	0.24
9/6/2023			
1/23/2024	0.079	0.087	0.24
8/19/2024			
8/20/2024	0.088	0.13	0.29
1/27/2025			
1/28/2025	0.086	0.13	0.28

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-3A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
11/12/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/29/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
2/17/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
9/13/2000	<0.0025	<0.0025	<0.0025						<0.0025
9/14/2000				<0.0025	<0.0025				
11/10/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
1/3/2001		<0.0025	<0.0025						
1/4/2001	<0.0025			<0.0025	<0.0025	<0.0025			
12/10/2001	<0.0025	<0.0025	<0.0025						
12/11/2001				<0.0025	<0.0025	<0.0025			
4/4/2002	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/6/2002	<0.0025				<0.0025				
12/9/2002		<0.0025	0.0018	<0.0025		<0.0025			
6/28/2003	<0.0025	<0.0025	0.0036	<0.0025	<0.0025	<0.0025			
12/13/2003	<0.0025	<0.0025	0.0019	<0.0025	<0.0025	<0.0025			
5/28/2004	0.0013								
5/29/2004		<0.0025	0.002	<0.0025	0.001	<0.0025			
12/11/2004	0.0028	0.0023	0.0035			0.0024			
12/12/2004				0.0023	0.0023				
6/24/2005	<0.0025	<0.0025	<0.0025			<0.0025			
6/25/2005				<0.0025	<0.0025				
12/13/2005	<0.0025	<0.0025	0.001	<0.0025	<0.0025	<0.0025			
6/26/2006			<0.0025	<0.0025	<0.0025				
6/27/2006	<0.0025	<0.0025				<0.0025			
12/1/2006	<0.0025	<0.0025	<0.0025			<0.0025			
12/2/2006				<0.0025	<0.0025				
6/21/2007		<0.0025	<0.0025			<0.0025			
6/22/2007	<0.0025			<0.0025	<0.0025				
12/14/2007				<0.0025	<0.0025				
12/15/2007	<0.0025	<0.0025	<0.0025			<0.0025			<0.0025
6/21/2008		<0.0025			<0.0025				
6/22/2008	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025			
12/6/2008		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/7/2008	<0.0025								
7/10/2009						<0.0025			
7/11/2009	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/22/2009			<0.0025						
12/23/2009	<0.0025	<0.0025		<0.0025	<0.0025	<0.0025			
6/23/2010		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
6/24/2010	<0.0025								
1/8/2011		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
1/9/2011	<0.0025								
7/10/2011		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
7/11/2011	<0.0025								
1/19/2012		<0.0025				<0.0025			
1/20/2012	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025			
7/12/2012		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
7/13/2012	<0.0025								
1/21/2013	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
7/20/2013	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
1/17/2014	0.00074 (J)	0.00021 (J)	0.00049 (J)	8.3E-05 (J)	<0.0025	0.00035 (J)			

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-3A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
7/11/2014					9.5E-05 (J)				
7/12/2014	0.00024 (J)	0.00022 (J)	0.00071 (J)	0.0002 (J)		0.00035 (J)			
1/15/2015		0.0002 (J)		0.00019 (J)		0.00039 (J)			
1/16/2015	0.00022 (J)		0.00043 (J)		0.00012 (J)				
7/15/2015	0.00015 (J)	0.00018 (J)	0.00064 (J)	0.00018 (J)	<0.0025	0.00031 (J)			
1/16/2016	0.00011 (J)	0.00013 (J)	0.00039 (J)			0.00034 (J)			
1/17/2016				0.00011 (J)	<0.0025				
6/22/2016	0.0003 (J)	0.0001 (J)	0.0002 (J)	0.0002 (J)	<0.0025	0.0004 (J)			
8/31/2016		<0.0025	<0.0025	<0.0025	<0.0025	0.00035 (J)			
9/1/2016	0.0084 (O)								
12/15/2016	0.00048 (J)								
1/19/2017		<0.0025	<0.0025			<0.0025			
1/24/2017				<0.0025					
1/25/2017					<0.0025				
2/28/2017	<0.0025								
4/19/2017	<0.0025								
7/17/2017	<0.0025								
7/18/2017		<0.0025				0.00038 (J)			
7/19/2017			<0.0025	<0.0025					
7/20/2017					<0.0025				
9/20/2017	<0.0025					0.00039 (J)			
9/21/2017		<0.0025	<0.0025	<0.0025	<0.0025				
1/8/2018	<0.0025								
1/9/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
3/27/2018	<0.0025	<0.0025	<0.0025			<0.0025			
3/28/2018					<0.0025				
3/29/2018				<0.0025					
7/10/2018	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	0.00038 (J)			
10/8/2018	<0.0025	<0.0025	<0.0025				<0.0025	0.0014 (J)	
10/9/2018				<0.0025	<0.0025	0.00044 (J)			
1/30/2019	0.00026 (J)	0.00019 (J)	0.00024 (J)		7E-05 (J)	0.00051 (J)	0.00047 (J)	0.0019 (J)	
1/31/2019				6.5E-05 (J)					
3/27/2019	<0.0025		<0.0025						
3/28/2019		<0.0025		<0.0025	<0.0025	0.00046 (J)	0.00034 (J)	0.0017 (J)	
9/11/2019	0.00019 (J)								
9/12/2019		<0.0025	0.00036 (J)	<0.0025	0.00028 (J)	0.00084 (J)	0.00097 (J)	0.00088 (J)	
3/10/2020	0.00018 (J)	0.00029 (J)	0.00028 (J)			0.00058 (J)		0.00087 (J)	
3/11/2020							0.00078 (J)		
3/31/2020				<0.0025	<0.0025				
4/2/2020						0.00062 (J)			
9/21/2020	0.0002 (J)	<0.0025				0.00054 (J)	<0.0025		
9/22/2020			<0.0025	0.00025 (J)	<0.0025			0.00042 (J)	
3/23/2021	0.00021 (J)			0.00018 (J)		0.00063 (J)	0.00066 (J)	0.00071 (J)	<0.0025
3/24/2021		0.00019 (J)	0.00026 (J)		<0.0025				
8/17/2021	<0.0025	<0.0025	0.00018 (J)			0.00049 (J)	0.00047 (J)	0.00068 (J)	<0.0025
8/18/2021				0.0002 (J)	<0.0025				
2/7/2022							<0.0025	0.00071 (J)	
2/8/2022	<0.0025	<0.0025	<0.0025	<0.0025		0.00061 (J)			<0.0025
2/9/2022					<0.0025				
8/30/2022	0.00035 (J)	0.00028 (J)	<0.0025	0.00038 (J)	<0.0025	0.00083 (J)	0.0007 (J)	0.0019 (J)	<0.0025
8/31/2022									
1/31/2023						0.00056 (J)	0.0018 (J)		<0.0025

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-3A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
2/1/2023		0.00024 (J)		0.00024 (J)	<0.0025	0.00078 (J)			
2/2/2023			0.0005 (J)						
3/28/2023									<0.0025
3/29/2023									
5/30/2023									<0.0025
5/31/2023									
7/26/2023									<0.0025
8/28/2023		0.00024 (J)					0.0005 (J)		<0.0025
8/29/2023				0.00031 (J)	<0.0025	0.00071 (J)		0.00063 (J)	
9/6/2023			0.00041 (J)						
1/23/2024		0.00021 (J)	0.00035 (J)	0.00027 (J)	<0.0025	0.00081 (J)	0.00045 (J)	0.0014 (J)	<0.0025
8/19/2024							0.00048 (J)	0.0009 (J)	
8/20/2024		0.00021 (J)	0.00034 (J)	0.00026 (J)	<0.0025	0.00081 (J)			<0.0025
1/27/2025							0.00051 (J)		
1/28/2025		0.00021 (J)	0.00035 (J)	0.00041 (J)	<0.0025	0.0012 (J)		0.0017 (J)	<0.0025

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

GWC-6A	GWC-5A	GWC-1A
10/5/1999		
11/12/1999		
12/29/1999		
2/17/2000		
9/13/2000		
9/14/2000		
11/10/2000		
1/3/2001		
1/4/2001		
12/10/2001		
12/11/2001		
4/4/2002		
12/6/2002		
12/9/2002		
6/28/2003		
12/13/2003		
5/28/2004		
5/29/2004		
12/11/2004		
12/12/2004		
6/24/2005		
6/25/2005		
12/13/2005		
6/26/2006		
6/27/2006		
12/1/2006		
12/2/2006		
6/21/2007		
6/22/2007		
12/14/2007		
12/15/2007		
6/21/2008		
6/22/2008		
12/6/2008		
12/7/2008		
7/10/2009		
7/11/2009		
12/22/2009		
12/23/2009		
6/23/2010		
6/24/2010		
1/8/2011		
1/9/2011		
7/10/2011		
7/11/2011		
1/19/2012		
1/20/2012		
7/12/2012		
7/13/2012		
1/21/2013		
7/20/2013		
1/17/2014		

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-5A	GWC-1A
7/11/2014			
7/12/2014			
1/15/2015			
1/16/2015			
7/15/2015			
1/16/2016			
1/17/2016			
6/22/2016			
8/31/2016			
9/1/2016			
12/15/2016			
1/19/2017			
1/24/2017			
1/25/2017			
2/28/2017			
4/19/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	<0.0025		
3/24/2021		<0.0025	0.00039 (J)
8/17/2021			
8/18/2021	<0.0025	<0.0025	0.00041 (J)
2/7/2022			
2/8/2022		<0.0025	
2/9/2022	0.00032 (J)		0.0004 (J)
8/30/2022			0.00042 (J)
8/31/2022	0.00029 (J)	<0.0025	
1/31/2023	0.00031 (J)	0.00023 (J)	0.00043 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-5A	GWC-1A
2/1/2023			
2/2/2023			
3/28/2023			
3/29/2023	0.00029 (J)	0.00024 (J)	0.00046 (J)
5/30/2023			
5/31/2023	0.00032 (J)	0.00024 (J)	0.00039 (J)
7/26/2023	0.00031 (J)	0.00032 (J)	0.00041 (J)
8/28/2023			
8/29/2023	0.00026 (J)	0.00031 (J)	0.00038 (J)
9/6/2023			
1/23/2024	0.00024 (J)	0.00033 (J)	0.00041 (J)
8/19/2024			
8/20/2024	0.00033 (J)	0.00051 (J)	0.0005 (J)
1/27/2025			
1/28/2025	0.00035 (J)	0.00046 (J)	0.00045 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-3A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	0.023	<0.002	<0.002	0.017	<0.002	<0.002			
11/12/1999	0.03	<0.002	<0.002	<0.002	<0.002	<0.002			
12/29/1999	0.059 (O)	<0.002	<0.002	0.011	<0.002	<0.002			
2/17/2000	0.048 (O)	<0.002	<0.002	0.013	<0.002	<0.002			
9/13/2000	<0.002	<0.002	<0.002						<0.002
9/14/2000				<0.002	<0.002				
11/10/2000	0.018	<0.002	<0.002	<0.002	<0.002	<0.002			
1/3/2001		<0.002	<0.002						
1/4/2001	<0.002			<0.002	<0.002	<0.002			
12/10/2001	<0.002	<0.002	<0.002						
12/11/2001				<0.002	<0.002	<0.002			
4/4/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
12/6/2002	0.0046				<0.002				
12/9/2002		0.0037	0.027	<0.002		<0.002			
6/28/2003	0.0082	0.0039	0.0051	0.0027	0.061 (O)	0.0053			
12/13/2003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
5/28/2004	0.016								
5/29/2004		<0.002	0.0031	<0.002	<0.002	0.0027			
12/11/2004	0.0087	<0.002	0.0067			0.004			
12/12/2004				0.74 (O)	0.0059 (O)				
6/24/2005	0.0069	<0.002	<0.002			0.0031			
6/25/2005				0.0023	<0.002				
12/13/2005	0.0075	<0.002	<0.002	0.0031	<0.002	0.0031			
6/26/2006			<0.002	0.0016	<0.002				
6/27/2006	0.027	0.0023				0.0025			
12/1/2006	0.012	0.0017	<0.002			0.0034			
12/2/2006				0.0022	<0.002				
6/21/2007		0.0027	0.0021			0.0053			
6/22/2007	0.012			0.002	<0.002				
12/14/2007				0.0029	<0.002				
12/15/2007	0.0085	0.0026	0.0022			0.0044			
6/21/2008		0.0021			<0.002				
6/22/2008	0.021		0.0019	0.0023		0.0059			
12/6/2008		<0.002	<0.002	0.0023	<0.002	0.0031			
12/7/2008	0.01								
7/10/2009						0.0029			
7/11/2009	0.0073	<0.002	<0.002	0.0015	<0.002				
12/22/2009			0.0032						
12/23/2009	0.013	<0.002		0.0014	<0.002	0.0025			
6/23/2010		<0.002	<0.002	0.0018	<0.002	0.0013			
6/24/2010	0.0076								
1/8/2011		<0.002	0.0019	0.0033	<0.002	0.0017			
1/9/2011	0.023								
7/10/2011		<0.002	<0.002	0.0028	<0.002	<0.002			
7/11/2011	0.0042								
1/19/2012		<0.002				<0.002			
1/20/2012	0.009		<0.002	<0.002	<0.002				
7/12/2012		<0.002	0.0044	0.0025	<0.002	<0.002			
7/13/2012	0.013								
1/21/2013	0.032	<0.002	<0.002	0.0022	<0.002	0.0014			
7/20/2013	0.01	<0.002	0.0017	0.0075	<0.002	0.0021			
1/17/2014	0.024	<0.002	0.0012 (J)	0.0039	<0.002	0.0023			

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
 Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-3A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
7/11/2014					<0.002				
7/12/2014	0.0069	<0.002	0.0014	0.0031		0.0012 (J)			
1/15/2015		<0.002		0.0026		<0.002			
1/16/2015	0.0064		0.0011 (J)		<0.002				
7/15/2015	0.0051	<0.002	0.0016	0.0032	<0.002	<0.002			
1/16/2016	0.0066	<0.002	<0.002			0.0025			
1/17/2016				0.0029	<0.002				
6/22/2016	0.0117	0.0005 (J)	0.002 (J)	0.0036 (J)	<0.002	0.0037 (J)			
8/31/2016		<0.002	0.002 (J)	0.0027	<0.002	0.0042			
9/1/2016	0.12 (O)								
12/15/2016	0.01								
1/19/2017		<0.002	0.002 (J)			0.0039			
1/24/2017				0.0034					
1/25/2017					<0.002				
2/28/2017	0.0012 (J)								
4/19/2017	0.0016 (J)								
7/17/2017	0.003								
7/18/2017		<0.002				0.0018 (J)			
7/19/2017			0.0017 (J)	0.0028					
7/20/2017					<0.002				
9/20/2017	0.0025					0.0026			
9/21/2017		<0.002	0.0021 (J)	0.0035	<0.002				
1/8/2018	0.0038								
1/9/2018		0.0087	0.0019 (J)	0.003	<0.002	0.0038			
3/27/2018	0.0044	<0.002	<0.002			0.0037			
3/28/2018					0.0019 (J)				
3/29/2018				0.0032					
7/10/2018	0.0045	<0.002	0.0012 (J)	0.0033	0.0029	0.0022 (J)			
10/8/2018	0.0054	<0.002	0.0015 (J)				<0.002	<0.002	
10/9/2018				0.0039	<0.002	0.0047			
1/30/2019	0.0061	0.00088 (J)	0.0014 (J)		<0.002	0.005	<0.002	0.003	
1/31/2019				0.0061					
3/27/2019	0.0044		<0.002						
3/28/2019		<0.002		0.0049	<0.002	0.0037	<0.002	0.0017 (J)	
9/11/2019	0.0076								
9/12/2019		<0.002	0.0032	0.0048	0.0028	<0.002	<0.002	<0.002	
12/17/2019				0.0064					
3/10/2020	0.0041	<0.002	0.0031			<0.002		<0.002	
3/11/2020							<0.002		
3/31/2020				0.005	<0.002				
4/2/2020						0.0031			
9/21/2020	0.0049	<0.002				<0.002	<0.002		
9/22/2020			0.0017 (J)	0.0036	<0.002			<0.002	
3/23/2021	0.0047			0.0048		0.0022	<0.002	<0.002	<0.002
3/24/2021		<0.002	<0.002		<0.002				
8/17/2021	0.0046	<0.002	<0.002			<0.002	<0.002	<0.002	<0.002
8/18/2021				0.0064	<0.002				
2/7/2022							<0.002	<0.002	
2/8/2022	0.0051	<0.002	0.003	0.0046		<0.002			<0.002
2/9/2022					<0.002				
8/30/2022	0.0047	<0.002	<0.002	0.005	<0.002	0.0084	<0.002	0.0028	<0.002
8/31/2022									

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-3A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
1/31/2023							<0.002	0.0022	<0.002
2/1/2023		0.0016 (J)		0.0037	<0.002	0.0016 (J)			
2/2/2023			0.0023						
3/28/2023									<0.002
3/29/2023									
5/30/2023									<0.002
5/31/2023									
7/26/2023									<0.002
8/28/2023		<0.002					0.0016 (J)		<0.002
8/29/2023				0.0037	<0.002	<0.002		<0.002	
9/6/2023			0.0016 (J)						
1/23/2024		<0.002	<0.002	0.0017 (J)	<0.002	0.0016 (J)	<0.002	0.0015 (J)	<0.002
8/19/2024							<0.002	<0.002	
8/20/2024		<0.002	0.0012 (J)	0.0027	<0.002	<0.002			<0.002
1/27/2025							<0.002		
1/28/2025		<0.002	0.0019 (J)	0.0019 (J)	<0.002	0.0017 (J)		0.003	<0.002

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

GWC-6A	GWC-5A	GWC-1A
10/5/1999		
11/12/1999		
12/29/1999		
2/17/2000		
9/13/2000		
9/14/2000		
11/10/2000		
1/3/2001		
1/4/2001		
12/10/2001		
12/11/2001		
4/4/2002		
12/6/2002		
12/9/2002		
6/28/2003		
12/13/2003		
5/28/2004		
5/29/2004		
12/11/2004		
12/12/2004		
6/24/2005		
6/25/2005		
12/13/2005		
6/26/2006		
6/27/2006		
12/1/2006		
12/2/2006		
6/21/2007		
6/22/2007		
12/14/2007		
12/15/2007		
6/21/2008		
6/22/2008		
12/6/2008		
12/7/2008		
7/10/2009		
7/11/2009		
12/22/2009		
12/23/2009		
6/23/2010		
6/24/2010		
1/8/2011		
1/9/2011		
7/10/2011		
7/11/2011		
1/19/2012		
1/20/2012		
7/12/2012		
7/13/2012		
1/21/2013		
7/20/2013		
1/17/2014		

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-5A	GWC-1A
7/11/2014			
7/12/2014			
1/15/2015			
1/16/2015			
7/15/2015			
1/16/2016			
1/17/2016			
6/22/2016			
8/31/2016			
9/1/2016			
12/15/2016			
1/19/2017			
1/24/2017			
1/25/2017			
2/28/2017			
4/19/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
12/17/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	<0.002		
3/24/2021		<0.002	<0.002
8/17/2021			
8/18/2021	<0.002	<0.002	<0.002
2/7/2022			
2/8/2022		<0.002	
2/9/2022	<0.002		<0.002
8/30/2022			<0.002
8/31/2022	<0.002	0.0021	

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-5A	GWC-1A
1/31/2023	<0.002	<0.002	<0.002
2/1/2023			
2/2/2023			
3/28/2023			
3/29/2023	0.0014 (J)	<0.002	0.0016 (J)
5/30/2023			
5/31/2023	0.0021	<0.002	0.0012 (J)
7/26/2023	<0.002	<0.002	<0.002
8/28/2023			
8/29/2023	0.0013 (J)	<0.002	<0.002
9/6/2023			
1/23/2024	<0.002	<0.002	<0.002
8/19/2024			
8/20/2024	0.0013 (J)	<0.002	<0.002
1/27/2025			
1/28/2025	0.002	<0.002	0.0028

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
10/5/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
11/12/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/29/1999	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
2/17/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
9/13/2000	<0.0025	<0.0025	<0.0025	<0.0025					
9/14/2000					<0.0025	<0.0025			
11/10/2000	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
1/3/2001			<0.0025	<0.0025					
1/4/2001	<0.0025	<0.0025			<0.0025	<0.0025			
12/10/2001	<0.0025		<0.0025	<0.0025					
12/11/2001		<0.0025			<0.0025	<0.0025			
4/4/2002	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
12/6/2002	<0.0025								<0.0025
12/9/2002		<0.0025	<0.0025	0.01 (O)	<0.0025				
6/28/2003	<0.0025	<0.0025	<0.0025	0.018 (O)	<0.0025	<0.0025			
12/13/2003	<0.0025	<0.0025	<0.0025	0.01 (O)	<0.0025	<0.0025			
5/28/2004	<0.0025								
5/29/2004		<0.0025	<0.0025	0.01 (O)	<0.0025	<0.0025			
12/11/2004	<0.0025	<0.0025	<0.0025	0.007					
12/12/2004					0.0062	<0.0025			
6/24/2005	<0.0025	<0.0025	<0.0025	0.0072					
6/25/2005					<0.0025	<0.0025			
12/13/2005	<0.0025	<0.0025	<0.0025	0.0062	<0.0025	<0.0025			
6/26/2006				0.0048	<0.0025	<0.0025			
6/27/2006	0.0032	<0.0025	<0.0025						
12/1/2006	<0.0025	<0.0025	<0.0025	0.0032					
12/2/2006					<0.0025	<0.0025			
6/21/2007		<0.0025	<0.0025	0.0037					
6/22/2007	<0.0025				<0.0025	<0.0025			
12/14/2007					<0.0025	<0.0025			
12/15/2007	<0.0025	<0.0025	<0.0025	<0.0025					
6/21/2008			<0.0025						0.0025
6/22/2008	0.0031	<0.0025		0.0025	<0.0025				
12/6/2008		<0.0025	<0.0025	0.0025	<0.0025	<0.0025			
12/7/2008	<0.0025								
7/10/2009		<0.0025							
7/11/2009	<0.0025		<0.0025	<0.0025	<0.0025	<0.0025			
12/22/2009				0.0025					
12/23/2009	<0.0025	<0.0025	<0.0025		<0.0025	<0.0025			
6/23/2010		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
6/24/2010	<0.0025								
1/8/2011		<0.0025	<0.0025	0.0026	<0.0025	<0.0025			
1/9/2011	0.0031								
7/10/2011		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
7/11/2011	<0.0025								
1/19/2012		<0.0025	<0.0025						
1/20/2012	<0.0025			<0.0025	<0.0025	<0.0025			
7/12/2012		<0.0025	<0.0025	0.002	<0.0025	<0.0025			
7/13/2012	0.0015								
1/21/2013	0.0035	<0.0025	<0.0025	0.0014	<0.0025	<0.0025			
7/20/2013	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
1/17/2014	0.0027	0.001 (J)	0.00071 (J)	0.0019	<0.0025	0.0008 (J)			

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
7/11/2014						0.00076 (J)			
7/12/2014	0.00075 (J)	0.00088 (J)	0.00075 (J)	0.0026	0.00071 (J)				
1/15/2015		0.00086 (J)	0.00084 (J)		0.00096 (J)				
1/16/2015	<0.0025			0.0021		0.00071 (J)			
7/15/2015	<0.0025	0.00087 (J)	0.00083 (J)	0.0023	0.0006 (J)	0.00064 (J)			
1/16/2016	0.00059 (J)	0.0011 (J)	0.00092 (J)	0.002					
1/17/2016					0.00069 (J)	0.00066 (J)			
6/22/2016	0.0012 (J)	0.0009 (J)	0.0005 (J)	0.0007 (J)	0.0011 (J)	0.0009 (J)			
8/31/2016		0.00095 (J)	0.00055 (J)	0.001 (J)	0.0006 (J)	0.0006 (J)			
9/1/2016	0.023 (O)								
12/15/2016	0.0011 (J)								
1/19/2017		0.00087 (J)	0.00041 (J)	0.00046 (J)					
1/24/2017					0.00067 (J)				
1/25/2017						0.00047 (J)			
2/28/2017	0.00048 (J)								
4/19/2017	<0.0025								
7/17/2017	<0.0025								
7/18/2017		0.001 (J)	0.0007 (J)						
7/19/2017				0.00069 (J)	0.00079 (J)				
7/20/2017						<0.0025			
9/20/2017	<0.0025	0.0011 (J)							
9/21/2017			0.00073 (J)	0.00073 (J)	0.00077 (J)	<0.0025			
1/8/2018	<0.0025								
1/9/2018		0.0011 (J)	0.0012 (J)	0.0014 (J)	0.00092 (J)	0.00048 (J)			
3/27/2018	<0.0025	0.0011 (J)	0.00081 (J)	0.0019 (J)					
3/28/2018						0.00048 (J)			
3/29/2018					0.0008 (J)				
7/10/2018	<0.0025	0.0012 (J)	0.00086 (J)	0.0015 (J)	0.00097 (J)	0.00084 (J)			
10/8/2018	<0.0025		0.00092 (J)	0.0013 (J)			0.0051	0.0055	
10/9/2018		0.0014 (J)			0.00094 (J)	0.00042 (J)			
1/30/2019	0.00038 (J)	0.0014 (J)	0.00092 (J)	0.00076 (J)		0.00038 (J)	0.0044	0.0047	
1/31/2019					0.00092 (J)				
3/27/2019	<0.0025			0.0012 (J)					
3/28/2019		0.0014 (J)	0.00089 (J)		0.00072 (J)	<0.0025	0.0046	0.0045	
9/11/2019	0.00032 (J)								
9/12/2019		0.0015	0.00091	0.00074	0.0009	0.00044 (J)	0.0023	0.0043	
3/10/2020	0.00028 (J)	0.0019	0.0009	0.00099		0.003			
3/11/2020								0.0056	
3/31/2020					0.00061 (J)	0.00033 (J)			
4/2/2020		0.0017 (J)							
9/21/2020	0.0003 (J)	0.0016 (J)	0.00059 (J)					0.0025	
9/22/2020				0.00064 (J)	0.00092 (J)	0.00042 (J)	<0.0025		
3/23/2021	0.00028 (J)	0.0017 (J)			0.00069 (J)		0.00096 (J)	0.003	0.00019 (J)
3/24/2021			0.00069 (J)	0.00077 (J)		0.00037 (J)			
8/17/2021	0.00032 (J)	0.002 (J)	0.00096 (J)	0.00085 (J)			0.00016 (J)	0.0026	0.00025 (J)
8/18/2021					0.0011 (J)	0.00034 (J)			
2/7/2022							0.00073 (J)	0.0024 (J)	
2/8/2022	0.00029 (J)	0.0019 (J)	0.00096 (J)	0.001 (J)	0.0013 (J)				0.00032 (J)
2/9/2022						0.00042 (J)			
8/30/2022	0.00031 (J)	0.0023 (J)	0.00097 (J)	0.0016 (J)	0.0012 (J)	0.00048 (J)	0.004	0.0024 (J)	0.00029 (J)
8/31/2022									
1/31/2023							0.0041	0.0023 (J)	0.00028 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWC-4A	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
2/1/2023		0.0027	0.0012 (J)		0.0013 (J)	0.00047 (J)			
2/2/2023				0.0017 (J)					
3/28/2023									0.00032 (J)
3/29/2023									
5/30/2023									0.00028 (J)
5/31/2023									
7/26/2023									<0.0025
8/28/2023			0.001 (J)					0.0019 (J)	<0.0025
8/29/2023		0.0026			0.0014 (J)	0.00045 (J)	0.0029		
9/6/2023				0.0017 (J)					
1/23/2024		0.003	0.001 (J)	0.0018 (J)	0.0014 (J)	0.0004 (J)	0.0033	0.0018 (J)	<0.0025
8/19/2024							0.0032	0.0018 (J)	
8/20/2024		0.0029	0.0012 (J)	0.0012 (J)	0.0015 (J)	0.00048 (J)			0.00028 (J)
1/27/2025								0.0017 (J)	
1/28/2025		0.0031	0.0011 (J)	0.0015 (J)	0.0017 (J)	0.00061 (J)	0.0035		0.00029 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-5A	GWC-1A
10/5/1999			
11/12/1999			
12/29/1999			
2/17/2000			
9/13/2000			
9/14/2000			
11/10/2000			
1/3/2001			
1/4/2001			
12/10/2001			
12/11/2001			
4/4/2002			
12/6/2002			
12/9/2002			
6/28/2003			
12/13/2003			
5/28/2004			
5/29/2004			
12/11/2004			
12/12/2004			
6/24/2005			
6/25/2005			
12/13/2005			
6/26/2006			
6/27/2006			
12/1/2006			
12/2/2006			
6/21/2007			
6/22/2007			
12/14/2007			
12/15/2007			
6/21/2008			
6/22/2008			
12/6/2008			
12/7/2008			
7/10/2009			
7/11/2009			
12/22/2009			
12/23/2009			
6/23/2010			
6/24/2010			
1/8/2011			
1/9/2011			
7/10/2011			
7/11/2011			
1/19/2012			
1/20/2012			
7/12/2012			
7/13/2012			
1/21/2013			
7/20/2013			
1/17/2014			

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-5A	GWC-1A
7/11/2014			
7/12/2014			
1/15/2015			
1/16/2015			
7/15/2015			
1/16/2016			
1/17/2016			
6/22/2016			
8/31/2016			
9/1/2016			
12/15/2016			
1/19/2017			
1/24/2017			
1/25/2017			
2/28/2017			
4/19/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
9/20/2017			
9/21/2017			
1/8/2018			
1/9/2018			
3/27/2018			
3/28/2018			
3/29/2018			
7/10/2018			
10/8/2018			
10/9/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	0.0034		
3/24/2021		0.0023 (J)	0.0063
8/17/2021			
8/18/2021	0.0016 (J)	0.0021 (J)	0.0053
2/7/2022			
2/8/2022		0.002 (J)	
2/9/2022	0.0012 (J)		0.0044
8/30/2022			0.0044
8/31/2022	0.0012 (J)	0.0018 (J)	
1/31/2023	0.0011 (J)	0.0021 (J)	0.0046

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-5A	GWC-1A
2/1/2023			
2/2/2023			
3/28/2023			
3/29/2023	0.001 (J)	0.0021 (J)	0.0051
5/30/2023			
5/31/2023	0.0011 (J)	0.0021 (J)	0.005
7/26/2023	0.0011 (J)	0.0026	0.0054
8/28/2023			
8/29/2023	0.00099 (J)	0.0023 (J)	0.0047
9/6/2023			
1/23/2024	0.00095 (J)	0.0027	0.0042
8/19/2024			
8/20/2024	0.001 (J)	0.0037	0.0048
1/27/2025			
1/28/2025	0.00095 (J)	0.0036	0.0047

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)	GWC-4A	GWC-2	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
10/5/1999	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
11/12/1999	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
12/29/1999	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
2/17/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
9/13/2000	<0.002	<0.002	<0.002	<0.002					
9/14/2000					<0.002	<0.002			
11/10/2000	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
1/3/2001		<0.002	<0.002						
1/4/2001	<0.002			<0.002	<0.002	<0.002			
12/10/2001	<0.002	<0.002	<0.002						
12/11/2001				<0.002	<0.002	<0.002			
4/4/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
12/6/2002	<0.002				<0.002				
12/9/2002		0.0089 (O)	<0.002	<0.002		<0.002			
6/28/2003	<0.002	0.019 (O)	<0.002	<0.002	<0.002	<0.002			
12/13/2003	<0.002	0.0067 (O)	<0.002	<0.002	<0.002	<0.002			
5/28/2004	0.0052								
5/29/2004		0.0057 (O)	<0.002	<0.002	<0.002	<0.002			
12/11/2004	<0.002	0.0027	<0.002	<0.002					
12/12/2004					<0.002	0.11 (O)			
6/24/2005	<0.002	0.0038	<0.002	<0.002					
6/25/2005					<0.002	<0.002			
12/13/2005	<0.002	0.0025	<0.002	<0.002	<0.002	<0.002			
6/26/2006		0.0033			<0.002	<0.002			
6/27/2006	0.0055		<0.002	<0.002					
12/1/2006	<0.002	<0.002	<0.002	<0.002					
12/2/2006					<0.002	<0.002			
6/21/2007		0.0035	<0.002	<0.002					
6/22/2007	0.0032				<0.002	<0.002			
12/14/2007					<0.002	<0.002			
12/15/2007	<0.002	<0.002	<0.002	<0.002					
6/21/2008			<0.002		<0.002				
6/22/2008	<0.002	<0.002		<0.002		<0.002			
12/6/2008		<0.002	<0.002	<0.002	<0.002	<0.002			
12/7/2008	<0.002								
7/10/2009				<0.002					
7/11/2009	<0.002	<0.002	<0.002		<0.002	<0.002			
12/22/2009		0.0025							
12/23/2009	0.0025		<0.002	<0.002	<0.002	<0.002			
6/23/2010		<0.002	<0.002	<0.002	<0.002	<0.002			
6/24/2010	<0.002								
1/8/2011		<0.002	<0.002	<0.002	<0.002	<0.002			
1/9/2011	0.004								
7/10/2011		<0.002	<0.002	<0.002	<0.002	<0.002			
7/11/2011	<0.002								
1/19/2012			<0.002	<0.002					
1/20/2012	<0.002	<0.002			<0.002	<0.002			
7/12/2012		<0.002	<0.002	<0.002	<0.002	<0.002			
7/13/2012	<0.002								
1/21/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
7/20/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
1/17/2014	0.0031 (J)	0.00092 (J)	0.00092 (J)	<0.002	<0.002	0.0065 (O)			

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)	GWC-4A	GWC-2	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
7/11/2014					0.00086 (J)				
7/12/2014	0.00098 (J)	<0.002	<0.002	<0.002		<0.002			
1/15/2015			<0.002	<0.002		<0.002			
1/16/2015	<0.002	<0.002			<0.002				
7/15/2015	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
1/16/2016	<0.002	<0.002	<0.002	<0.002					
1/17/2016					<0.002	<0.002			
6/22/2016	0.0012 (J)	0.001 (J)	<0.002	0.0005 (J)	<0.002	0.0005 (J)			
1/19/2017		<0.002	<0.002	<0.002					
1/24/2017						<0.002			
1/25/2017					<0.002				
2/28/2017	<0.002								
7/17/2017	<0.002								
7/18/2017			<0.002	<0.002					
7/19/2017		<0.002				<0.002			
7/20/2017					<0.002				
1/8/2018	<0.002								
1/9/2018		<0.002	0.0025	<0.002	<0.002	<0.002			
7/9/2018	<0.002								
7/10/2018	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
1/30/2019	<0.002	<0.002	<0.002	<0.002	<0.002		0.0035	0.0018 (J)	
1/31/2019						<0.002			
3/27/2019	<0.002	<0.002							
3/28/2019			<0.002	<0.002	<0.002	<0.002	0.0031	<0.002	
9/11/2019	<0.002								
9/12/2019		0.0011 (J)	0.0022	0.0024	<0.002	0.002	0.0038	0.0041	
3/10/2020	<0.002	0.0019 (J)	<0.002	0.00082 (J)			0.0021		
3/11/2020								0.0032	
3/31/2020					<0.002	<0.002			
4/2/2020				0.0019 (J)					
9/21/2020	<0.002		<0.002	<0.002				0.0018 (J)	
9/22/2020		0.0013 (J)			<0.002	<0.002	0.00096 (J)		
3/23/2021	<0.002			<0.002		<0.002	0.0011 (J)	0.0027	0.0015 (J)
3/24/2021		0.00077 (J)	<0.002		<0.002				
8/17/2021	<0.002	<0.002	<0.002	<0.002			0.0043	0.0025	<0.002
8/18/2021					<0.002	<0.002			
2/7/2022							0.0012 (J)	0.008	
2/8/2022	<0.002	<0.002	<0.002	0.0011 (J)		0.0019 (J)			<0.002
2/9/2022					<0.002				
8/30/2022	<0.002	0.0011 (J)	0.0012 (J)	0.0029	<0.002	<0.002	0.0013 (J)	0.0028	<0.002
1/31/2023							<0.002	<0.002	<0.002
2/1/2023			<0.002	<0.002	<0.002	<0.002			
2/2/2023		0.0018 (J)							
3/28/2023									<0.002
3/29/2023									
5/30/2023									<0.002
5/31/2023									
7/26/2023									<0.002
8/28/2023			<0.002					0.0016 (J)	<0.002
8/29/2023				0.0057	<0.002	<0.002	<0.002		
9/6/2023		<0.002							
1/23/2024		<0.002	<0.002	0.0012 (J)	<0.002	<0.002	<0.002	0.0011 (J)	<0.002

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)	GWC-4A	GWC-2	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
8/19/2024							<0.002	0.0015 (J)	
8/20/2024		<0.002	<0.002	0.003	<0.002	<0.002			<0.002
1/27/2025								<0.002	
1/28/2025		0.0011 (J)	<0.002	0.0018 (J)	<0.002	<0.002	<0.002		<0.002

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

GWC-1A

10/5/1999
11/12/1999
12/29/1999
2/17/2000
9/13/2000
9/14/2000
11/10/2000
1/3/2001
1/4/2001
12/10/2001
12/11/2001
4/4/2002
12/6/2002
12/9/2002
6/28/2003
12/13/2003
5/28/2004
5/29/2004
12/11/2004
12/12/2004
6/24/2005
6/25/2005
12/13/2005
6/26/2006
6/27/2006
12/1/2006
12/2/2006
6/21/2007
6/22/2007
12/14/2007
12/15/2007
6/21/2008
6/22/2008
12/6/2008
12/7/2008
7/10/2009
7/11/2009
12/22/2009
12/23/2009
6/23/2010
6/24/2010
1/8/2011
1/9/2011
7/10/2011
7/11/2011
1/19/2012
1/20/2012
7/12/2012
7/13/2012
1/21/2013
7/20/2013
1/17/2014

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

GWC-1A

7/11/2014	
7/12/2014	
1/15/2015	
1/16/2015	
7/15/2015	
1/16/2016	
1/17/2016	
6/22/2016	
1/19/2017	
1/24/2017	
1/25/2017	
2/28/2017	
7/17/2017	
7/18/2017	
7/19/2017	
7/20/2017	
1/8/2018	
1/9/2018	
7/9/2018	
7/10/2018	
1/30/2019	
1/31/2019	
3/27/2019	
3/28/2019	
9/11/2019	
9/12/2019	
3/10/2020	
3/11/2020	
3/31/2020	
4/2/2020	
9/21/2020	
9/22/2020	
3/23/2021	
3/24/2021	0.001 (J)
8/17/2021	
8/18/2021	0.00085 (J)
2/7/2022	
2/8/2022	
2/9/2022	<0.002
8/30/2022	0.0019 (J)
1/31/2023	<0.002
2/1/2023	
2/2/2023	
3/28/2023	
3/29/2023	0.0011 (J)
5/30/2023	
5/31/2023	0.0012 (J)
7/26/2023	<0.002
8/28/2023	
8/29/2023	<0.002
9/6/2023	
1/23/2024	<0.002

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A
8/19/2024	
8/20/2024	<0.002
1/27/2025	
1/28/2025	<0.002

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWA-7A (bg)	GWA-2B (bg)	GWC-6A	GWA-1B (bg)
10/5/1999	0.0077	<0.001	<0.001	<0.001	0.0054 (O)				
11/12/1999	0.0063 (O)	<0.001	<0.001	<0.001	<0.001				
12/29/1999	0.016	<0.001	<0.001	<0.001	<0.001				
2/17/2000	0.011	<0.001	<0.001	<0.001	<0.001				
9/13/2000	<0.001	<0.001	<0.001	<0.001					
9/14/2000					<0.001				
11/10/2000	<0.001	<0.001	<0.001	<0.001	<0.001				
1/3/2001			<0.001	<0.001					
1/4/2001	<0.001	<0.001							<0.001
12/10/2001	<0.001		<0.001	<0.001					
12/11/2001		<0.001							<0.001
4/4/2002	<0.001	<0.001	<0.001	<0.001	<0.001				<0.001
12/6/2002	<0.001								
12/9/2002		<0.001	<0.001	0.011	<0.001				
6/28/2003	<0.001	<0.001	<0.001	<0.001	<0.001				
12/13/2003	<0.001	<0.001	<0.001	<0.001	<0.001				
5/28/2004	0.015								
5/29/2004		<0.001	<0.001	<0.001	<0.001				<0.001
12/11/2004	0.01	<0.001	<0.001	<0.001	<0.001				
12/12/2004									<0.001
6/24/2005	<0.001	<0.001	<0.001	<0.001					
6/25/2005									<0.001
12/13/2005	<0.001	<0.001	<0.001	<0.001	<0.001				<0.001
6/26/2006					<0.001				<0.001
6/27/2006	0.013	<0.001	<0.001						
12/1/2006	<0.001	<0.001	<0.001	<0.001					
12/2/2006									<0.001
6/21/2007		<0.001	<0.001	<0.001					
6/22/2007	<0.001								<0.001
12/14/2007									<0.001
12/15/2007	<0.001	<0.001	<0.001	<0.001					
6/21/2008			<0.001						
6/22/2008	<0.001	<0.001		<0.001	<0.001				<0.001
12/6/2008		<0.001	<0.001	<0.001	<0.001				<0.001
12/7/2008	<0.001								
7/10/2009		<0.001							
7/11/2009	<0.001		<0.001	<0.001	<0.001				<0.001
12/22/2009				<0.001					
12/23/2009	<0.001	<0.001	<0.001						<0.001
6/23/2010		<0.001	<0.001	<0.001	<0.001				<0.001
6/24/2010	<0.001								
1/8/2011		<0.001	<0.001	<0.001	<0.001				<0.001
1/9/2011	<0.001								
7/10/2011		<0.001	<0.001	<0.001	<0.001				<0.001
7/11/2011	<0.001								
1/19/2012		<0.001	<0.001						
1/20/2012	<0.001			<0.001	<0.001				<0.001
7/12/2012		<0.001	<0.001	<0.001	<0.001				<0.001
7/13/2012	<0.001								
1/21/2013	<0.001	<0.001	<0.001	<0.001	<0.001				<0.001
7/20/2013	<0.001	<0.001	<0.001	<0.001	<0.001				<0.001
1/17/2014	0.0086 (J)	<0.001	<0.001	<0.001	<0.001				<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWA-7A (bg)	GWA-2B (bg)	GWC-6A	GWA-1B (bg)
7/12/2014	<0.001	<0.001	<0.001	<0.001	<0.001				
1/15/2015		<0.001	<0.001		<0.001				
1/16/2015	<0.001			<0.001					
7/15/2015	<0.001	<0.001	<0.001	<0.001	<0.001				
1/16/2016	<0.001	<0.001	<0.001	<0.001					
1/17/2016					<0.001				
6/22/2016	0.0022 (J)	0.0004 (J)	0.0003 (J)	0.001 (J)	0.0001 (J)				
8/31/2016		<0.001	<0.001	0.00099 (J)	<0.001				
9/1/2016	0.082 (O)								
12/15/2016	0.0027								
1/19/2017		<0.001	<0.001	0.001 (J)					
1/24/2017					<0.001				
2/28/2017	<0.001								
4/19/2017	<0.001								
7/17/2017	<0.001								
7/18/2017		<0.001	<0.001						
7/19/2017				0.00081 (J)	<0.001				
9/20/2017	0.00035 (J)	<0.001							
9/21/2017			0.0076	0.00086 (J)	0.0014 (O)				
1/8/2018	<0.001								
1/9/2018		<0.001	0.0023	0.00059 (J)	<0.001				
3/27/2018	<0.001	<0.001	<0.001	<0.001					
3/29/2018					<0.001				
7/10/2018	<0.001	<0.001	<0.001	0.00045 (J)	<0.001				
10/8/2018	<0.001		<0.001	0.00037 (J)		<0.001	<0.001		
10/9/2018		0.00039 (J)			<0.001				
1/30/2019	0.00021 (J)	0.00034 (J)	0.00013 (J)	0.00064 (J)		<0.001	0.00028 (J)		
1/31/2019					0.00015 (J)				
3/27/2019	<0.001			0.0012 (J)					
3/28/2019		0.00038 (J)	<0.001		<0.001	<0.001	<0.001		
9/11/2019	<0.001								
9/12/2019		<0.001	<0.001	0.00082 (J)	<0.001	<0.001	<0.001		
3/10/2020	0.00015 (J)	0.00013 (J)	0.00031 (J)	0.0022			<0.001		
3/11/2020						<0.001			
3/31/2020					<0.001				
4/2/2020		0.00062 (J)							
9/21/2020	<0.001	<0.001	0.00025 (J)			<0.001			
9/22/2020				0.0012	<0.001		<0.001		
3/23/2021	0.00017 (J)	0.00029 (J)			<0.001	<0.001	<0.001	<0.001	<0.001
3/24/2021			0.00021 (J)	0.00066 (J)					
8/17/2021	<0.001	0.00015 (J)	<0.001	0.00044 (J)		<0.001	0.00073 (J)		<0.001
8/18/2021					<0.001			<0.001	
2/7/2022						<0.001	<0.001		
2/8/2022	<0.001	<0.001	<0.001	0.00058 (J)	<0.001				<0.001
2/9/2022								<0.001	
8/30/2022	<0.001	<0.001	<0.001	0.00064 (J)	<0.001	<0.001	<0.001		<0.001
8/31/2022								<0.001	
1/31/2023						<0.001	<0.001	<0.001	<0.001
2/1/2023		0.00027 (J)	<0.001		<0.001				
2/2/2023				0.0013					
3/28/2023									<0.001
3/29/2023							<0.001		

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-3A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-2	GWA-7A (bg)	GWA-2B (bg)	GWC-6A	GWA-1B (bg)
5/30/2023									0.00043 (J)
5/31/2023								0.00038 (J)	
7/26/2023								<0.001	<0.001
8/28/2023			<0.001			<0.001			<0.001
8/29/2023		<0.001			<0.001		<0.001	0.00038 (J)	
9/6/2023				0.0007 (J)					
1/23/2024		0.00031 (J)	<0.001	0.0011	<0.001	0.00056 (J)	<0.001	0.00023 (J)	<0.001
8/19/2024						<0.001	<0.001		
8/20/2024		0.0003 (J)	<0.001	0.00046 (J)	<0.001			<0.001	<0.001
1/27/2025						<0.001			
1/28/2025		0.00031 (J)	<0.001	0.0006 (J)	<0.001		<0.001	<0.001	<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

GWC-1A

GWC-5A

10/5/1999
11/12/1999
12/29/1999
2/17/2000
9/13/2000
9/14/2000
11/10/2000
1/3/2001
1/4/2001
12/10/2001
12/11/2001
4/4/2002
12/6/2002
12/9/2002
6/28/2003
12/13/2003
5/28/2004
5/29/2004
12/11/2004
12/12/2004
6/24/2005
6/25/2005
12/13/2005
6/26/2006
6/27/2006
12/1/2006
12/2/2006
6/21/2007
6/22/2007
12/14/2007
12/15/2007
6/21/2008
6/22/2008
12/6/2008
12/7/2008
7/10/2009
7/11/2009
12/22/2009
12/23/2009
6/23/2010
6/24/2010
1/8/2011
1/9/2011
7/10/2011
7/11/2011
1/19/2012
1/20/2012
7/12/2012
7/13/2012
1/21/2013
7/20/2013
1/17/2014

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-5A
7/12/2014		
1/15/2015		
1/16/2015		
7/15/2015		
1/16/2016		
1/17/2016		
6/22/2016		
8/31/2016		
9/1/2016		
12/15/2016		
1/19/2017		
1/24/2017		
2/28/2017		
4/19/2017		
7/17/2017		
7/18/2017		
7/19/2017		
9/20/2017		
9/21/2017		
1/8/2018		
1/9/2018		
3/27/2018		
3/29/2018		
7/10/2018		
10/8/2018		
10/9/2018		
1/30/2019		
1/31/2019		
3/27/2019		
3/28/2019		
9/11/2019		
9/12/2019		
3/10/2020		
3/11/2020		
3/31/2020		
4/2/2020		
9/21/2020		
9/22/2020		
3/23/2021		
3/24/2021	<0.001	0.0003 (J)
8/17/2021		
8/18/2021	<0.001	0.00021 (J)
2/7/2022		
2/8/2022		0.00061 (J)
2/9/2022	<0.001	
8/30/2022	<0.001	
8/31/2022		0.00027 (J)
1/31/2023	<0.001	<0.001
2/1/2023		
2/2/2023		
3/28/2023		
3/29/2023	<0.001	<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A	GWC-5A
5/30/2023		
5/31/2023	0.00048 (J)	0.00061 (J)
7/26/2023	<0.001	<0.001
8/28/2023		
8/29/2023	<0.001	<0.001
9/6/2023		
1/23/2024	<0.001	0.0003 (J)
8/19/2024		
8/20/2024	<0.001	0.00024 (J)
1/27/2025		
1/28/2025	<0.001	<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWC-4A	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)	GWC-2	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
10/5/1999	0.02	<0.002	<0.002	<0.002	<0.002	0.015 (O)			
11/12/1999	0.027	<0.002	<0.002	<0.002	<0.002	<0.002			
12/29/1999	0.055 (O)	<0.002	<0.002	<0.002	<0.002	<0.002			
2/17/2000	0.042 (O)	<0.002	<0.002	<0.002	<0.002	0.01			
9/13/2000	<0.002		<0.002	<0.002	<0.002				
9/14/2000		<0.002				<0.002			
11/10/2000	0.014	<0.002	<0.002	<0.002	<0.002	<0.002			
1/3/2001			<0.002	<0.002					
1/4/2001	<0.002	<0.002			<0.002	<0.002			
12/10/2001	<0.002		<0.002	<0.002					
12/11/2001		<0.002			<0.002	<0.002			
4/4/2002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
12/6/2002	<0.002	<0.002							
12/9/2002			0.03	<0.002	<0.002	<0.002			
6/28/2003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
12/13/2003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
5/28/2004	0.017								
5/29/2004		<0.002	<0.002	<0.002	<0.002	<0.002			
12/11/2004	0.0082		<0.002	<0.002	<0.002				
12/12/2004		<0.002						<0.002	
6/24/2005	<0.002		<0.002	<0.002	<0.002				
6/25/2005		<0.002						<0.002	
12/13/2005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002			
6/26/2006		<0.002	<0.002					<0.002	
6/27/2006	0.023			<0.002	<0.002				
12/1/2006	0.0081		<0.002	<0.002	<0.002				
12/2/2006		<0.002						<0.002	
6/21/2007			<0.002	<0.002	0.0038				
6/22/2007	0.009	<0.002						<0.002	
12/14/2007		<0.002						<0.002	
12/15/2007	0.0056		<0.002	<0.002	<0.002				
6/21/2008		<0.002		<0.002					
6/22/2008	0.013		0.0026		<0.002	<0.002			
12/6/2008		<0.002	<0.002	<0.002	<0.002	<0.002			
12/7/2008	0.0027								
7/10/2009					<0.002				
7/11/2009	0.0032	<0.002	<0.002	<0.002	<0.002			<0.002	
12/22/2009			<0.002						
12/23/2009	0.0093	<0.002		<0.002	<0.002	<0.002			
6/23/2010		<0.002	<0.002	<0.002	<0.002	<0.002			
6/24/2010	0.0033								
1/8/2011		<0.002	<0.002	<0.002	<0.002	<0.002			
1/9/2011	<0.002								
7/10/2011		<0.002	<0.002	<0.002	<0.002	<0.002			
7/11/2011	<0.002								
1/19/2012				<0.002	<0.002				
1/20/2012	<0.002	<0.002	<0.002					<0.002	
7/12/2012		<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
7/13/2012	0.011								
1/21/2013	0.028	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
7/20/2013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	
1/17/2014	0.019	<0.002	<0.002	<0.002	<0.002	<0.002		<0.002	

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWC-4A	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)	GWC-2	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
7/11/2014		<0.002							
7/12/2014	0.0025 (J)		<0.002	<0.002	<0.002	<0.002			
1/15/2015				<0.002	<0.002	<0.002			
1/16/2015	0.0012 (J)	<0.002	0.0011 (J)						
7/15/2015	<0.002	<0.002	0.0016 (J)	<0.002	<0.002	<0.002			
1/16/2016	0.0015 (J)		<0.002	0.00082 (J)	0.0011 (J)				
1/17/2016		<0.002				<0.002			
6/22/2016	0.0062 (J)	<0.002	0.0018 (J)	<0.002	<0.002	0.0019 (J)			
1/19/2017			0.0033	0.0025	<0.002				
1/24/2017						0.0062			
1/25/2017		<0.002							
2/28/2017	0.0019 (J)								
7/17/2017	<0.002								
7/18/2017				<0.002	<0.002				
7/19/2017			0.0045			0.0015 (J)			
7/20/2017		<0.002							
1/8/2018	<0.002								
1/9/2018		<0.002	0.0027	0.0072	<0.002	<0.002			
7/10/2018	0.0036	0.0022 (J)	0.005	0.0016 (J)	<0.002	0.0018 (J)			
1/30/2019	0.0017 (J)	<0.002	0.0019 (J)	<0.002	0.0016 (J)		0.0018 (J)	<0.002	
1/31/2019						0.001 (J)			
3/27/2019	0.0029		0.0082						
3/28/2019		<0.002		<0.002	0.0076	0.0059	<0.002	0.0053	
9/11/2019	0.0014								
9/12/2019		0.0021	0.004	0.0017	0.002	0.0018	0.0021	0.002	
3/10/2020	<0.002		0.01	<0.002	<0.002		<0.002		
3/11/2020								<0.002	
3/31/2020		<0.002				<0.002			
4/2/2020					0.0013				
9/21/2020	<0.002			0.0012	<0.002			<0.002	
9/22/2020		<0.002	0.0056			<0.002	<0.002		
3/23/2021	<0.002				<0.002	<0.002	<0.002	<0.002	<0.002
3/24/2021		<0.002	0.0018	<0.002					
8/17/2021	<0.002		0.0018	<0.002	<0.002		<0.002	<0.002	<0.002
8/18/2021		<0.002				<0.002			
2/7/2022							<0.002	0.0011	
2/8/2022	<0.002		0.0023	<0.002	<0.002	<0.002			<0.002
2/9/2022		<0.002							
8/30/2022	0.0019	<0.002	0.0028	<0.002	<0.002	<0.002	0.0016	0.0016	0.0019
1/31/2023							<0.002	<0.002	<0.002
2/1/2023		<0.002		<0.002	<0.002	<0.002			
2/2/2023			0.0041						
3/28/2023									<0.002
3/29/2023									
5/30/2023									<0.002
5/31/2023									
7/26/2023									<0.002
8/28/2023				<0.002				<0.002	<0.002
8/29/2023		<0.002			<0.002	<0.002	<0.002		
9/6/2023			0.0015 (J)						
1/23/2024		<0.002	0.0011 (J)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
8/19/2024							<0.002	<0.002	

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWC-4A	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)	GWC-2	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
8/20/2024		<0.002	0.0012 (J)	<0.002	0.00095 (J)	<0.002			<0.002
1/27/2025								<0.002	
1/28/2025		<0.002	0.001 (J)	<0.002	<0.002	<0.002	<0.002		<0.002

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

GWC-1A

10/5/1999
11/12/1999
12/29/1999
2/17/2000
9/13/2000
9/14/2000
11/10/2000
1/3/2001
1/4/2001
12/10/2001
12/11/2001
4/4/2002
12/6/2002
12/9/2002
6/28/2003
12/13/2003
5/28/2004
5/29/2004
12/11/2004
12/12/2004
6/24/2005
6/25/2005
12/13/2005
6/26/2006
6/27/2006
12/1/2006
12/2/2006
6/21/2007
6/22/2007
12/14/2007
12/15/2007
6/21/2008
6/22/2008
12/6/2008
12/7/2008
7/10/2009
7/11/2009
12/22/2009
12/23/2009
6/23/2010
6/24/2010
1/8/2011
1/9/2011
7/10/2011
7/11/2011
1/19/2012
1/20/2012
7/12/2012
7/13/2012
1/21/2013
7/20/2013
1/17/2014

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

GWC-1A

7/11/2014	
7/12/2014	
1/15/2015	
1/16/2015	
7/15/2015	
1/16/2016	
1/17/2016	
6/22/2016	
1/19/2017	
1/24/2017	
1/25/2017	
2/28/2017	
7/17/2017	
7/18/2017	
7/19/2017	
7/20/2017	
1/8/2018	
1/9/2018	
7/10/2018	
1/30/2019	
1/31/2019	
3/27/2019	
3/28/2019	
9/11/2019	
9/12/2019	
3/10/2020	
3/11/2020	
3/31/2020	
4/2/2020	
9/21/2020	
9/22/2020	
3/23/2021	
3/24/2021	<0.002
8/17/2021	
8/18/2021	<0.002
2/7/2022	
2/8/2022	
2/9/2022	<0.002
8/30/2022	0.00087 (J)
1/31/2023	<0.002
2/1/2023	
2/2/2023	
3/28/2023	
3/29/2023	<0.002
5/30/2023	
5/31/2023	<0.002
7/26/2023	<0.002
8/28/2023	
8/29/2023	<0.002
9/6/2023	
1/23/2024	<0.002
8/19/2024	

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-1A
8/20/2024	<0.002
1/27/2025	
1/28/2025	<0.002

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-3A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
10/5/1999	0.043	0.039	<0.005	<0.005	0.028	0.023			
11/12/1999	0.035	0.025	<0.005	<0.005	<0.005	<0.005			
12/29/1999	0.058	0.023	<0.005	<0.005	0.022	<0.005			
2/17/2000	0.051	<0.005	<0.005	<0.005	0.021	<0.005			
9/13/2000	<0.005	0.035	0.021			<0.005			
9/14/2000				0.036 (O)	<0.005				
11/10/2000	<0.005	0.023	<0.005	<0.005	<0.005	<0.005			
1/3/2001		0.027	<0.005						
1/4/2001	<0.005			<0.005	<0.005	<0.005			
12/10/2001	<0.005	0.036	<0.005						
12/11/2001				<0.005	<0.005	<0.005			
4/4/2002	0.02	0.038	<0.005	<0.005	0.069 (O)	<0.005			
12/6/2002	<0.005			0.012					
12/9/2002		0.033	0.06		0.012	<0.005			
6/28/2003	<0.005	0.018	0.19 (O)	<0.005	0.011	<0.005			
12/13/2003	<0.005	0.013	0.067	<0.005	<0.005	<0.005			
5/28/2004	0.034								
5/29/2004		<0.005	0.068	<0.005	<0.005	<0.005			
12/11/2004	0.021	<0.005	0.039			<0.005			
12/12/2004				<0.005	0.027				
6/24/2005	<0.005	<0.005	0.033			<0.005			
6/25/2005				<0.005	<0.005				
12/13/2005	0.013	0.011	0.039	<0.005	0.011	<0.005			
6/26/2006			0.022	<0.005	0.0064				
6/27/2006	0.074	0.0055						0.0047	
12/1/2006	0.048	0.0052	0.018					0.065	
12/2/2006				0.098 (O)	0.0077				
6/21/2007		0.0062	0.07					0.008	
6/22/2007	0.067			0.0043	0.0082				
12/14/2007				0.0057	0.0063				
12/15/2007	0.053	0.0055	0.0072					0.0043	
6/21/2008		0.011		0.0064					
6/22/2008	0.024		0.011		0.0074	0.0062			
12/6/2008		0.008	0.011	0.0052	0.0066	0.051			
12/7/2008	0.0087								
7/10/2009								0.0043	
7/11/2009	0.045	0.011	0.013	0.0049	0.0054				
12/22/2009			0.013						
12/23/2009	0.054	0.0051		0.005	0.0046	0.0039			
6/23/2010		0.0031	0.0084	0.0044	0.0041	<0.005			
6/24/2010	0.0065								
1/8/2011		0.0035	0.0089	0.0036	0.019	0.0037			
1/9/2011	0.022								
7/10/2011		0.0081	0.0084	0.0046	0.005	0.0047			
7/11/2011	0.0032								
1/19/2012		0.017						0.0045	
1/20/2012	0.0089		0.0094	0.0045	0.007				
7/12/2012		0.01	0.0098	0.0041	0.0045	0.0033			
7/13/2012	0.012								
1/21/2013	0.024	0.013	0.007	0.0038	0.0045	0.0038			
7/20/2013	0.0068	<0.005	0.0074	0.0047	<0.005	0.004			
1/17/2014	0.02	0.0066	0.0092	0.0051	0.0075	0.005			

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-3A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
7/11/2014				0.0066					
7/12/2014	0.0055	0.0054	0.013		0.0051	0.004			
1/15/2015		0.0076			0.0054	0.0056			
1/16/2015	0.0043		0.0081	0.0046					
7/15/2015	0.0026	0.0053	0.009	0.0036	0.0049	0.0034			
1/16/2016	0.0035	0.0048	0.007			0.0038			
1/17/2016				0.004	0.0051				
6/22/2016	0.0096 (J)	0.0038 (J)	0.0091 (J)	0.0053 (J)	0.0087 (J)	0.0038 (J)			
1/19/2017		<0.005	0.0065 (J)			<0.005			
1/24/2017					0.0071 (J)				
1/25/2017				<0.005					
2/28/2017	<0.005								
7/17/2017	<0.005								
7/18/2017		<0.005				<0.005			
7/19/2017			0.0099 (J)		<0.005				
7/20/2017				<0.005					
1/8/2018	<0.005								
1/9/2018		0.0072 (J)	0.014 (J)	<0.005	0.0079 (J)	<0.005			
7/10/2018	<0.005	<0.005	0.0089 (J)	<0.005	0.0067 (J)	<0.005			
1/30/2019	<0.005	0.006 (J)	0.0057 (J)	0.0042 (J)		0.0058 (J)	0.011 (J)	0.013 (J)	
1/31/2019					0.0068 (J)				
3/27/2019	<0.005		0.01 (J)						
3/28/2019		<0.005		<0.005	0.0069 (J)	<0.005	0.0086 (J)	0.014 (J)	
9/11/2019	0.0062								
9/12/2019		0.0073	0.0074	0.0093	0.0089	0.0081	0.014	0.0075	
3/10/2020	<0.005	0.0079	0.0071			0.0079		0.0061	
3/11/2020							0.0099		
3/31/2020				<0.005	0.0065				
4/2/2020						0.011			
9/21/2020	<0.005	0.013				0.0055	0.007		
9/22/2020			0.039	0.017	0.029			0.0066	
3/23/2021	<0.005				0.0085	0.0092	0.0096	0.0066	0.0098
3/24/2021		0.0058	0.0085	0.01					
8/17/2021	0.048	0.029	0.024			0.014	0.052	0.026	0.024
8/18/2021				0.012	0.0081				
2/7/2022							0.0098	0.0046 (J)	
2/8/2022	0.0031 (J)	0.007	0.007		0.0078	0.013			0.0048 (J)
2/9/2022				0.0039 (J)					
8/30/2022	<0.005	0.01	0.013	0.0046 (J)	0.012	0.012	0.0089	0.014	0.003 (J)
8/31/2022									
1/31/2023							0.0082	0.012	<0.005
2/1/2023		0.0089		<0.005	0.0062	0.0071			
2/2/2023			0.0095						
3/28/2023									0.0096
3/29/2023									
5/30/2023									0.0076
5/31/2023									
7/26/2023									<0.005
8/28/2023		0.0064					0.019		0.0029 (J)
8/29/2023				0.004 (J)	0.0065	0.012		0.011	
9/6/2023			0.0082						
1/23/2024		0.0078	0.0077	0.0041 (J)	0.0069	0.0091	0.0094	0.01	0.05

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWA-1A (bg)	GWA-4 (bg)	GWA-5 (bg)	GWC-4A	GWC-2	GWA-3A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
8/19/2024							0.019	0.04	
8/20/2024		0.0081	0.007	<0.005	0.0067	0.019			0.0035 (J)
1/27/2025							0.0087		
1/28/2025		0.012	0.013	0.0062	0.0083	0.011		0.014	<0.005

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-5A	GWC-1A
10/5/1999			
11/12/1999			
12/29/1999			
2/17/2000			
9/13/2000			
9/14/2000			
11/10/2000			
1/3/2001			
1/4/2001			
12/10/2001			
12/11/2001			
4/4/2002			
12/6/2002			
12/9/2002			
6/28/2003			
12/13/2003			
5/28/2004			
5/29/2004			
12/11/2004			
12/12/2004			
6/24/2005			
6/25/2005			
12/13/2005			
6/26/2006			
6/27/2006			
12/1/2006			
12/2/2006			
6/21/2007			
6/22/2007			
12/14/2007			
12/15/2007			
6/21/2008			
6/22/2008			
12/6/2008			
12/7/2008			
7/10/2009			
7/11/2009			
12/22/2009			
12/23/2009			
6/23/2010			
6/24/2010			
1/8/2011			
1/9/2011			
7/10/2011			
7/11/2011			
1/19/2012			
1/20/2012			
7/12/2012			
7/13/2012			
1/21/2013			
7/20/2013			
1/17/2014			

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-5A	GWC-1A
7/11/2014			
7/12/2014			
1/15/2015			
1/16/2015			
7/15/2015			
1/16/2016			
1/17/2016			
6/22/2016			
1/19/2017			
1/24/2017			
1/25/2017			
2/28/2017			
7/17/2017			
7/18/2017			
7/19/2017			
7/20/2017			
1/8/2018			
1/9/2018			
7/10/2018			
1/30/2019			
1/31/2019			
3/27/2019			
3/28/2019			
9/11/2019			
9/12/2019			
3/10/2020			
3/11/2020			
3/31/2020			
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	0.0091		
3/24/2021		0.013	0.02
8/17/2021			
8/18/2021	0.072	0.021	0.15
2/7/2022			
2/8/2022		0.011	
2/9/2022	0.0069		0.023
8/30/2022			0.02
8/31/2022	0.0049 (J)	0.014	
1/31/2023	<0.005	0.0088	0.018
2/1/2023			
2/2/2023			
3/28/2023			
3/29/2023	0.0056	0.01	0.02
5/30/2023			
5/31/2023	0.0049 (J)	0.0096	0.02
7/26/2023	0.011	0.011	0.019
8/28/2023			
8/29/2023	0.008	0.01	0.017
9/6/2023			
1/23/2024	0.0042 (J)	0.016	0.018

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/5/2025 12:15 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3

	GWC-6A	GWC-5A	GWC-1A
8/19/2024			
8/20/2024	0.0052	0.015	0.02
1/27/2025			
1/28/2025	0.0047 (J)	0.018	0.021



**ATLANTIC COAST
CONSULTING, INC.**

Roswell, GA
11545 Wills Road
Suite 100
Alpharetta, GA 30009
Phone: 770.594.5998

Savannah, GA
7414 Hodgson Memorial
Drive, Suite 2B
Savannah, GA 31406
Phone: 912.236.3471

Knoxville, TN
8848 Cedar Springs
Lane, Suite 202
Knoxville, TN 37923
Phone: 865.531.9143