Georgia Power

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

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Atlantic Coast Consulting, Inc.

PROFESSIONAL CERTIFICATION

This *2024 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.



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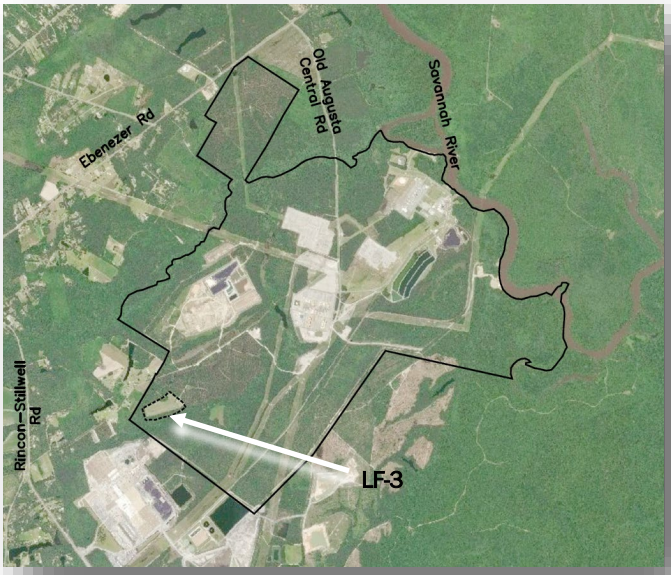
SUMMARY

This summary of the *2024 Annual Groundwater Monitoring and Corrective Action Report* provides the groundwater monitoring and corrective action program status from July 2023 through June 2024 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.



Plant McIntosh and Inactive Landfill No. 3

The Site is monitored using a comprehensive monitoring system of wells installed to meet monitoring requirements of the Coal Combustion Residuals 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 annual reporting period, the Site remained in detection monitoring.

During the 2024 annual reporting period, ACC conducted groundwater semi-annual sampling events in August 2023 and January 2024 and the final background sampling of four wells in July 2023. Groundwater samples were submitted to Eurofins Environment Testing America (Eurofins) for analysis. Per the Coal Combustion Residuals (CCR) Rule, groundwater results for August 2023 and January 2024 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 2023 through June 2024, 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.

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1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D) and the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management 391-3-4-.10 and 391-3-4-.14, Atlantic Coast Consulting, Inc. (ACC) has prepared this *2024 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted for the reporting period of July 2023 through June 2024 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 2023 and January 2024 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 *2024 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 2023 through June 2024 (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. Semi-annual samples were collected in August 2023 and January 2024 from each well in the certified monitoring system shown on Figure 2. Samples were also collected from four wells in July 2023 for completion of background sampling. Pursuant to 40 CFR § 257.90(e)(3), a summary and description of groundwater sampling events completed at the Site during the annual monitoring 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 2023 and January 2024, monitoring wells were inspected. No corrective actions were deemed necessary in August 2023 and January 2024, 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 Solid Waste Permit and the Site's Design and Operation (D&O) Plan. Semiannual sampling events were conducted in August 2023 and January 2024.

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 each of the semiannual detection monitoring events is included in Appendix A.

2.3 Additional Sampling

A minor modification was approved on December 19, 2022, that incorporated groundwater monitoring wells GWA-1B, GWC-1A, GWC-5A, and GWC-6A into the monitoring network. To facilitate future statistical analysis for these wells, the final background event was completed in July 2023, and results have been incorporated into the statistical database. Routine monitoring samples were also collected from these wells during the August 2023 and January 2024

monitoring events. Groundwater samples were collected and analyzed for the same analytes listed in Section 2.2. The analytical data packages of each of these events is included in Appendix A.

Additional geochemical analytical data was collected during the January 2024 sampling event 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 each sampling event, groundwater elevations were recorded from piezometers and wells at the Site. Groundwater elevations recorded during the monitoring events are summarized in Table 3, Summary of Groundwater Elevations. Groundwater elevation data were used to develop Figures 3A and 3B, Potentiometric Contour Map – August 2023 and January 2024, respectively. Wells with the elevation most consistent with overall Site groundwater flow pattern were selected for contouring. The groundwater flow has consistently had a northeastern flow direction. The groundwater flow velocity at the Site was calculated using a derivation of Darcy's Law. Specifically:

Equation

$$v = \frac{K\,(dh/dl)}{P_e}$$

where:
v = groundwater velocity
K = hydraulic conductivity
dh/dl = hydraulic gradient
P_e = effective porosity

Groundwater flow velocities were calculated for the Site based on hydraulic gradients, average permeability based on previous slug test data, and an estimated effective porosity of 0.20. The groundwater flow velocities have been calculated and are tabulated in Tables 4A and 4B, Horizontal Groundwater Flow Velocity Calculations – August 2023 and January 2024, respectively. The calculated flow velocity was approximately 0.040 feet per day during the August 2023 event and 0.043 feet per day during the January 2024 event.

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

3.2 Groundwater Sampling

Groundwater samples were collected using low-flow sampling procedures in accordance with 40 CFR § 257.93(a). Purging and sampling was performed using 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. A SmarTroll or 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
- ± 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 laboratory branch 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 July 2023, August 2023, and January 2024. 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 2023 and January 2024, respectively. Additional geochemical analytical data collected during the January 2024 monitoring event 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 one set of QA/QC samples per every 10 samples. A set of QA/QC samples includes equipment blanks, field blanks, and duplicate samples. QA/QC sample data were evaluated during data validation and are included in Appendix A.

Groundwater quality data in this report were validated in accordance with US EPA guidance (US EPA, 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spike/matrix spike duplicate recoveries and relative percent differences (RPDs), post digestion spikes, laboratory and field duplicate RPDs, field and equipment blanks, and reporting limits. The validated data 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. The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions.

4.0 STATISTICAL ANALYSIS

Statistical analysis of August 2023 and January 2024 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 parameter 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 2023 and January 2024 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 2023 and January 2024 routine groundwater monitoring data is provided in Table 6.

4.2 Statistical Analyses Results

Analytical data from the August 2023 and January 2024 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.

The eighth sampling event for GWC-1A, GWC-5A, and GWC-6A was completed in July 2023 before the wells were sampled for the August 2023 monitoring event. Therefore, data from these wells were statistically analyzed during this monitoring period.

4.2.1 Summary of Results for State Appendix I Parameters

Statistical analysis of the August 2023 and January 2024 Appendix I parameter data identified no PL exceedances.

4.2.2 Summary of Results for Appendix III Parameters

Statistical analysis of the August 2023 and January 2024 Appendix III parameter data identified no PL exceedances.

5.0 MONITORING PROGRAM STATUS

No SSIs were identified for the July 2023 through June 2024 monitoring period; therefore, the Site will remain in detection monitoring.

6.0 CONCLUSIONS AND FUTURE ACTIONS

This *2024 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 and 391-3-4-.14.

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 2024.

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.

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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.

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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	28.30	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	27.20	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 (ft) 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.

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

Well ID	Hydraulic Location	Well Designation	July 26 2023	August 28 2023 - September 06 2023	January 23 2024
			Background Number 8	Semiannual Detection Event	Semiannual Detection Event
GWA-1B	Upgradient	Detection	X	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	X
GWC-2	Downgradient	Detection		X	X
GWC-4A	Downgradient	Detection		X	X
GWC-5A	Downgradient	Detection	X	X	X
GWC-6A	Downgradient	Detection	X	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

		August 2023		January 2024	
Well ID	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
GWA-1B	67.36	22.62	44.74	22.96	44.40
GWA-2B	66.20	20.45	45.75	20.80	45.40
GWA-3A	62.77	17.33	45.44	17.72	45.05
GWA-4	62.01	17.36	44.65	17.72	44.29
GWA-5	60.43	16.65	43.78	16.87	43.56
GWA-7A	67.92	23.95	43.97	24.55	43.37
GWC-1A	66.76	22.93	43.83	23.57	43.19
GWC-2	64.19	21.47	42.72	21.70	42.49
GWC-4A	66.60	23.36	43.24	23.89	42.71
GWC-5A	67.84	24.65	43.19	25.29	42.55
GWC-6A	68.37	24.68	43.69	25.33	43.04
PZ-1	67.41	23.63	43.78	24.46	42.95
PZ-2	67.26	23.77	43.49	24.46	42.80
PZ-3	61.28	17.12	44.16	17.40	43.88
PZ-4	66.41	20.74	45.67	21.08	45.33
PZ-5	67.52	23.23	44.29	23.70	43.82

Notes:
Elevations referenced to the North American Vertical Datum 1988.
Groundwater elevations measured August 28, 2023 and January 22, 2024.

Table 4A
Horizontal Groundwater Flow Velocity Calculations - August 2023
Georgia Power Company
Plant McIntosh Inactive Landfill No. 3
Effingham County, GA

Equation

$$v = \frac{K\,(dh/dl)}{P_e}$$

where: v = groundwater velocity
K = hydraulic conductivity
dh/dl = hydraulic gradient
P_e = effective porosity

Values Used in Calculation

Value			Source
K =	7.9E-04	cm/sec	See note 1.
	2.24	ft/day	
			Hydraulic gradient from
dh/dl_1 =	0.0042	unitless	GWA-5 to GWC-2
dh/dl_2 =	0.0030	unitless	GWA-3A to GWC-6A
dh/dl_{avg} =	0.0036	unitless	Average of $dh/dl_{1,2}$
P_e =	0.20	unitless	See note 2.

Calculated Flow Velocity

$$v = \frac{(2.24)\,(0.004)}{0.20}$$

v = 0.040 ft/day, or 15 ft/year

Notes

(1) Slug tests performed by Southern Company Services, Inc. (2002)

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

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

Equation

$$v = \frac{K\,(dh/dl)}{P_e}$$

where: v = groundwater velocity
K = hydraulic conductivity
dh/dl = hydraulic gradient
P_e = effective porosity

Values Used in Calculation

Value			Source
K =	7.9E-04	cm/sec	See note 1.
	2.24	ft/day	
			Hydraulic gradient from
dh/dl_1 =	0.0042	unitless	GWA-5 to GWC-2
dh/dl_2 =	0.0034	unitless	GWA-3A to GWC-6A
dh/dl_{avg} =	0.0038	unitless	Average of $dh/dl_{1,2}$
P_e =	0.20	unitless	See note 2.

Calculated Flow Velocity

$$v = \frac{(2.24)\,(0.004)}{0.20}$$

v = 0.043 ft/day, or 16 ft/year

Notes

(1) Slug tests performed by Southern Company Services, Inc. (2002)

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

Table 5A
Groundwater Analytical Data Summary - August 2023
Georgia Power Company
Plant McIntosh Inactive Landfill No. 3
Effingham County, GA

	Sample Location	GWA-1B	GWA-1B	GWA-2B	GWA-3A	GWA-4	GWA-5	GWA-7A	GWC-1A	GWC-1A
	Sample Date	07/26/2023	08/28/2023	08/29/2023	08/29/2023	08/28/2023	09/06/2023	08/28/2023	07/26/2023	08/29/2023
ANALYTE	UNITS									
Appendix III										
Boron	mg/L	0.032 J	0.035 J	0.53	0.078 J	< 0.022	0.032 J	1.2	0.054 J	0.042 J
Calcium	mg/L	7.5	8.6	13	4.7	1.3	3.7	14	2.7	2.5
Chloride	mg/L	7.3	6.8	7.9	29	4.6	14	7.1	14	13
Fluoride	mg/L	0.19	0.21	< 0.040	< 0.040	0.051 J	0.15	< 0.040	0.085 J	0.080 J
pH, Field	SU	5.86	5.72	5.78	4.46	4.34	4.32	4.91	4.26	4.25
Sulfate	mg/L	1.5	1.4	42	< 0.40	3.2	14	67	< 0.40	0.40 J
Total Dissolved Solids	mg/L	84	85	110	85	48	66	140	57	53
Required by Permit										
Barium	mg/L	0.026	0.023	0.045	0.12	0.047	0.12	0.044	0.28	0.24
Beryllium	mg/L	< 0.00020	< 0.00020	0.00063 J	0.00071 J	0.00024 J	0.00041 J	0.00050 J	0.00041 J	0.00038 J
Chromium	mg/L	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.0016 J	0.0016 J	< 0.0012	< 0.0012
Cobalt	mg/L	< 0.00022	< 0.00022	0.0029	0.0026	0.0010 J	0.0017 J	0.0019 J	0.0054	0.0047
Copper	mg/L	< 0.0011	< 0.0011	< 0.0011	0.0057	< 0.0011	< 0.0011	0.0016 J	< 0.0011	< 0.0011
Lead	mg/L	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	0.00070 J	< 0.00021	< 0.00021	< 0.00021
Vanadium	mg/L	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	0.0015 J	< 0.00063	< 0.00063	< 0.00063
Zinc	mg/L	< 0.0028	0.0029 J	0.011	0.012	0.0064	0.0082	0.019	0.019	0.017

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 GA EPD Rule 391-3-4.14 requirements.

Table 5A
Groundwater Analytical Data Summary - August 2023
Georgia Power Company
Plant McIntosh Inactive Landfill No. 3
Effingham County, GA

	Sample Location	GWC-2	GWC-4A	GWC-5A	GWC-5A	GWC-6A	GWC-6A
	Sample Date	08/29/2023	08/29/2023	07/26/2023	08/29/2023	07/26/2023	08/29/2023
ANALYTE	UNITS						
Appendix III							
Boron	mg/L	0.10	< 0.022	< 0.022	< 0.022	0.039 J	0.033 J
Calcium	mg/L	1.6	0.37 J	1.2	1.1	3.3	3.2
Chloride	mg/L	4.8	4.1	5.4	5.2	10	9.5
Fluoride	mg/L	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
pH, Field	SU	4.63	4.39	4.57	4.6	4.93	4.96
Sulfate	mg/L	5.2	0.57 J	0.43 J	0.48 J	3.2	2.7
Total Dissolved Solids	mg/L	45	21	29	36	70	76
Required by Permit							
Barium	mg/L	0.065	0.032	0.082	0.076	0.086	0.079
Beryllium	mg/L	0.00031 J	< 0.00020	0.00032 J	0.00031 J	0.00031 J	0.00026 J
Chromium	mg/L	0.0037	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.0013 J
Cobalt	mg/L	0.0014 J	0.00045 J	0.0026	0.0023 J	0.0011 J	0.00099 J
Copper	mg/L	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Lead	mg/L	< 0.00021	< 0.00021	< 0.00021	< 0.00021	< 0.00021	0.00038 J
Vanadium	mg/L	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00063
Zinc	mg/L	0.0065	0.0040 J	0.011	0.010	0.011	0.0080

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 GA EPD Rule 391-3-4.14 requirements.

Table 5B
Groundwater Analytical Data Summary - January 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	01/23/2024	01/23/2024	01/23/2024	01/23/2024	01/23/2024	01/23/2024	01/23/2024	01/23/2024	01/23/2024
ANALYTE	UNITS									
Appendix III										
Boron	mg/L	0.029 J	0.50	0.073 J	0.033 J	0.051 J	1.2	0.060 J	0.092	< 0.022
Calcium	mg/L	8.3	12	4.6	1.2	3.2	12	2.3	1.4	0.30 J
Chloride	mg/L	6.3	9.6	33	5.1	16	7.2	14	5.0	4.3
Fluoride	mg/L	0.24	< 0.040	0.049 J	0.077 J	0.15	< 0.040	0.10	0.043 J	< 0.040
Sulfate	mg/L	1.4	54	< 0.40	3.3	14	66	< 0.40	3.8	0.41 J
TDS	mg/L	100	120	99	32	68	140	63	40	25
pH, Field	SU	6.52	5.14	4.65	4.98	4.66	5.01	4.55	4.96	4.64
Required by Permit										
Barium	mg/L	0.021	0.037	0.13	0.045	0.12	0.041	0.24	0.057	0.030
Beryllium	mg/L	< 0.00020	0.0014 J	0.00081 J	0.00021 J	0.00035 J	0.00045 J	0.00041 J	0.00027 J	< 0.00020
Chromium	mg/L	< 0.0012	0.0015 J	0.0016 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.0017 J	< 0.0012
Cobalt	mg/L	< 0.00022	0.0033	0.0030	0.0010 J	0.0018 J	0.0018 J	0.0042	0.0014 J	0.00040 J
Copper	mg/L	< 0.0011	< 0.0011	0.0012 J	< 0.0011	< 0.0011	0.0011 J	< 0.0011	< 0.0011	< 0.0011
Lead	mg/L	< 0.00021	< 0.00021	0.00031 J	< 0.00021	0.0011	0.00056 J	< 0.00021	< 0.00021	< 0.00021
Vanadium	mg/L	< 0.00063	< 0.00063	< 0.00063	< 0.00063	0.0011 J	< 0.00063	< 0.00063	< 0.00063	< 0.00063
Zinc	mg/L	0.050	0.010	0.0091	0.0078	0.0077	0.0094	0.018	0.0069	0.0041 J
Additional Parameters										
Bicarbonate Alkalinity as CaCO3	mg/L	45	8.9	< 5.0	< 5.0	< 5.0	6.7	< 5.0	8.1	< 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	45	8.9	< 5.0	< 5.0	< 5.0	6.7	< 5.0	8.1	< 5.0
Magnesium	mg/L	3.0	3.0	2.1	0.89	2.3	3.6	3.1	0.91	0.72
Potassium	mg/L	1.1	2.7	3.4	1.2	1.9	2.6	1.9	1.7	0.67
Sodium	mg/L	5.4	13	9.7	3.9	7.1	17	5.3	4.5	1.8

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 GA EPD Rule 391-3-4.14 requirements.

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

	Sample Location	GWC-5A	GWC-6A
	Sample Date	01/23/2024	01/23/2024
ANALYTE	UNITS		
Appendix III			
Boron	mg/L	< 0.022	0.047 J
Calcium	mg/L	0.96	3.0
Chloride	mg/L	6.4	10
Fluoride	mg/L	< 0.040	< 0.040
Sulfate	mg/L	< 0.40	3.3
TDS	mg/L	35	75
pH, Field	SU	4.80	5.32
Required by Permit			
Barium	mg/L	0.087	0.079
Beryllium	mg/L	0.00033 J	0.00024 J
Chromium	mg/L	< 0.0012	< 0.0012
Cobalt	mg/L	0.0027	0.00095 J
Copper	mg/L	< 0.0011	< 0.0011
Lead	mg/L	0.00030 J	0.00023 J
Vanadium	mg/L	< 0.00063	< 0.00063
Zinc	mg/L	0.016	0.0042 J
Additional Parameters			
Bicarbonate Alkalinity as CaCO3	mg/L	6.3	11
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	6.3	11
Magnesium	mg/L	1.5	1.5
Potassium	mg/L	1.3	1.7
Sodium	mg/L	2.5	6.6

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 GA 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 seaonality 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 March 2021 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.

N

1,500 750 0 1,500

SCALE (IN FEET)

Atlantic Coast Consulting, Inc.

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

FIGURE 1



Georgia Power

GEORGIA POWER COMPANY
PLANT McINTOSH LANDFILL No. 3

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.

N

150 75 0 150

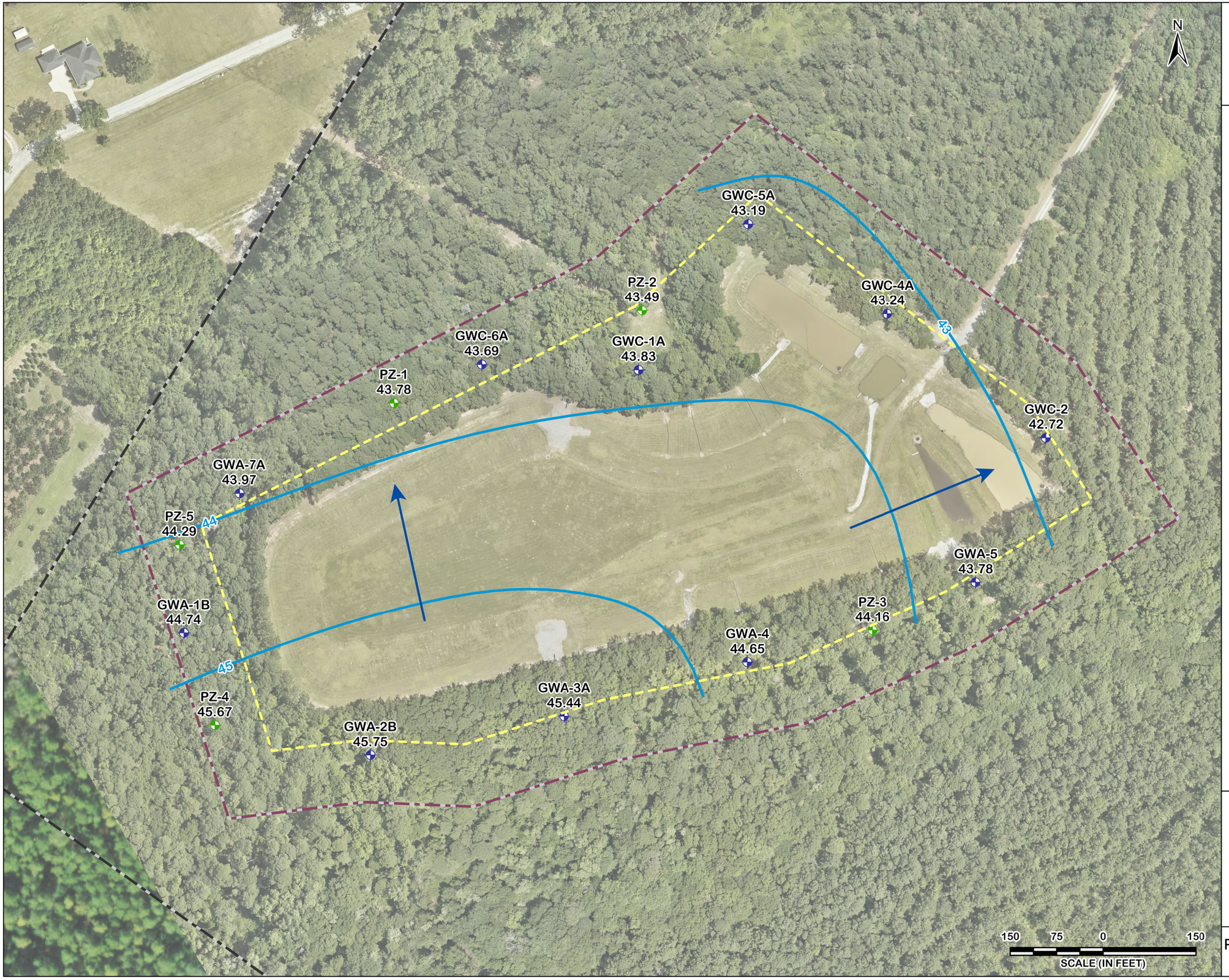
SCALE (IN FEET)

ATLANTIC COAST CONSULTING, INC.

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP

FIGURE 2



Georgia Power

GEORGIA POWER COMPANY
PLANT McINTOSH LANDFILL No. 3

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 JULY 17, 2023, PROVIDED BY SAM, LLC. ADDITIONAL PHOTOGRAPHY SOURCED FROM NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) DATED DECEMBER 2, 2021.
2. DEPTHS TO WATER MEASURED AUGUST 28, 2023.
3. FT NAVD88 = FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988.

CHARLES BRISENDINE ADAMS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 1632

Atlantic Coast Consulting, Inc.

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

POTENTIOMETRIC CONTOUR MAP
AUGUST 2023

FIGURE 3A



Georgia Power

GEORGIA POWER COMPANY
PLANT McINTOSH LANDFILL No. 3

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 22, 2024.
3. FT NAVD88 = FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988.

CHARLES BRISENDINE ADAMS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 1632

Atlantic Coast Consulting, Inc.

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

POTENTIOMETRIC CONTOUR MAP
JANUARY 2024

FIGURE 3B

APPENDICES

APPENDIX A

LABORATORY ANALYTICAL AND FIELD SAMPLING REPORTS

APPENDIX A

Laboratory Analytical and Field Sampling Reports
July 2023 Monitoring Event

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/4/2023 8:01:32 AM

JOB DESCRIPTION

Plant McIntosh Landfill #3

JOB NUMBER

680-238216-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

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
8/4/2023 8:01:32 AM

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

Qualifiers

HPLC/IC

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.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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.
¤	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
Job ID: 680-238216-1
Project/Site: Plant McIntosh Landfill #3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-238216-1	MCI-GWA-1B	Water	07/26/23 13:00	07/27/23 08:48
680-238216-2	MCI-GWC-1A	Water	07/26/23 15:15	07/27/23 08:48
680-238216-3	MCI-GWC-5A	Water	07/26/23 16:30	07/27/23 08:48
680-238216-4	MCI-GWC-6A	Water	07/26/23 14:10	07/27/23 08:48
680-238216-5	MCI-LF3-FD-05	Water	07/26/23 00:00	07/27/23 08:48
680-238216-6	MCI-LF3-FB-09	Water	07/26/23 13:50	07/27/23 08:48
680-238216-7	MCI-LF3-EB-11	Water	07/26/23 15:40	07/27/23 08:48

Job ID: 680-238216-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-238216-1

Receipt
The samples were received on 7/27/2023 8:48 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°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: The sample duplicate precision for the following sample associated with analytical batch 680-791184 was outside control limits: (680-238257-B-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.

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

Job ID: 680-238216-1

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-238216-1

Date Collected: 07/26/23 13:00

Matrix: Water

Date Received: 07/27/23 08:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.3		1.0	0.20	mg/L			07/28/23 18:46	1
Fluoride	0.19		0.10	0.040	mg/L			07/28/23 18:46	1
Sulfate	1.5		1.0	0.40	mg/L			07/28/23 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.026		0.010	0.00089	mg/L		07/27/23 12:57	07/28/23 17:39	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		07/27/23 12:57	07/28/23 17:39	1
Boron	0.032	J	0.080	0.022	mg/L		07/27/23 12:57	07/28/23 17:39	1
Calcium	7.5		0.50	0.14	mg/L		07/27/23 12:57	07/28/23 17:39	1
Chromium	<0.0012		0.0020	0.0012	mg/L		07/27/23 12:57	07/28/23 17:39	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		07/27/23 12:57	07/28/23 17:39	1
Copper	<0.0011		0.0020	0.0011	mg/L		07/27/23 12:57	07/28/23 17:39	1
Lead	<0.00021		0.0010	0.00021	mg/L		07/27/23 12:57	07/28/23 17:39	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		07/27/23 12:57	07/28/23 17:39	1
Zinc	<0.0028		0.0050	0.0028	mg/L		07/27/23 12:57	07/28/23 17:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	84		10	10	mg/L			08/01/23 12:13	1

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-238216-2

Date Collected: 07/26/23 15:15

Matrix: Water

Date Received: 07/27/23 08:48

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			07/28/23 18:59	1
Fluoride	0.085	J	0.10	0.040	mg/L			07/28/23 18:59	1
Sulfate	<0.40		1.0	0.40	mg/L			07/28/23 18:59	1

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		07/27/23 12:57	07/28/23 17:43	1
Beryllium	0.00041	J	0.0025	0.00020	mg/L		07/27/23 12:57	07/28/23 17:43	1
Boron	0.054	J	0.080	0.022	mg/L		07/27/23 12:57	07/28/23 17:43	1
Calcium	2.7		0.50	0.14	mg/L		07/27/23 12:57	07/28/23 17:43	1
Chromium	<0.0012		0.0020	0.0012	mg/L		07/27/23 12:57	07/28/23 17:43	1
Cobalt	0.0054		0.0025	0.00022	mg/L		07/27/23 12:57	07/28/23 17:43	1
Copper	<0.0011		0.0020	0.0011	mg/L		07/27/23 12:57	07/28/23 17:43	1
Lead	<0.00021		0.0010	0.00021	mg/L		07/27/23 12:57	07/28/23 17:43	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		07/27/23 12:57	07/28/23 17:43	1
Zinc	0.019		0.0050	0.0028	mg/L		07/27/23 12:57	07/28/23 17:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	57		10	10	mg/L			08/01/23 12:13	1

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-238216-3

Date Collected: 07/26/23 16:30

Matrix: Water

Date Received: 07/27/23 08:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.4		1.0	0.20	mg/L			07/28/23 19:11	1
Fluoride	<0.040		0.10	0.040	mg/L			07/28/23 19:11	1
Sulfate	0.43	J	1.0	0.40	mg/L			07/28/23 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.082		0.010	0.00089	mg/L		07/27/23 12:57	07/28/23 17:47	1
Beryllium	0.00032	J	0.0025	0.00020	mg/L		07/27/23 12:57	07/28/23 17:47	1
Boron	<0.022		0.080	0.022	mg/L		07/27/23 12:57	07/28/23 17:47	1
Calcium	1.2		0.50	0.14	mg/L		07/27/23 12:57	07/28/23 17:47	1
Chromium	<0.0012		0.0020	0.0012	mg/L		07/27/23 12:57	07/28/23 17:47	1
Cobalt	0.0026		0.0025	0.00022	mg/L		07/27/23 12:57	07/28/23 17:47	1
Copper	<0.0011		0.0020	0.0011	mg/L		07/27/23 12:57	07/28/23 17:47	1
Lead	<0.00021		0.0010	0.00021	mg/L		07/27/23 12:57	07/28/23 17:47	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		07/27/23 12:57	07/28/23 17:47	1
Zinc	0.011		0.0050	0.0028	mg/L		07/27/23 12:57	07/28/23 17:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	29		10	10	mg/L			08/01/23 12:13	1

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-238216-4

Date Collected: 07/26/23 14:10

Matrix: Water

Date Received: 07/27/23 08:48

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			07/28/23 19:24	1
Fluoride	<0.040		0.10	0.040	mg/L			07/28/23 19:24	1
Sulfate	3.2		1.0	0.40	mg/L			07/28/23 19:24	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		07/27/23 12:57	07/28/23 17:51	1
Beryllium	0.00031	J	0.0025	0.00020	mg/L		07/27/23 12:57	07/28/23 17:51	1
Boron	0.039	J	0.080	0.022	mg/L		07/27/23 12:57	07/28/23 17:51	1
Calcium	3.3		0.50	0.14	mg/L		07/27/23 12:57	07/28/23 17:51	1
Chromium	<0.0012		0.0020	0.0012	mg/L		07/27/23 12:57	07/28/23 17:51	1
Cobalt	0.0011	J	0.0025	0.00022	mg/L		07/27/23 12:57	07/28/23 17:51	1
Copper	<0.0011		0.0020	0.0011	mg/L		07/27/23 12:57	07/28/23 17:51	1
Lead	<0.00021		0.0010	0.00021	mg/L		07/27/23 12:57	07/28/23 17:51	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		07/27/23 12:57	07/28/23 17:51	1
Zinc	0.011		0.0050	0.0028	mg/L		07/27/23 12:57	07/28/23 17:51	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			08/01/23 12:13	1

Client Sample ID: MCI-LF3-FD-05

Lab Sample ID: 680-238216-5

Date Collected: 07/26/23 00:00

Matrix: Water

Date Received: 07/27/23 08:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13**		1.0	0.20	mg/L			08/01/23 10:14	1
Fluoride	**0.076**	**J**	0.10	0.040	mg/L			08/01/23 10:14	1
Sulfate	<0.40		1.0	0.40	mg/L			08/01/23 10:14	1

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		07/27/23 12:57	07/28/23 17:55	1
Beryllium	**0.00037**	**J**	0.0025	0.00020	mg/L		07/27/23 12:57	07/28/23 17:55	1
Boron	**0.052**	**J**	0.080	0.022	mg/L		07/27/23 12:57	07/28/23 17:55	1
Calcium	**2.6**		0.50	0.14	mg/L		07/27/23 12:57	07/28/23 17:55	1
Chromium	<0.0012		0.0020	0.0012	mg/L		07/27/23 12:57	07/28/23 17:55	1
Cobalt	**0.0050**		0.0025	0.00022	mg/L		07/27/23 12:57	07/28/23 17:55	1
Copper	**0.0011**	**J**	0.0020	0.0011	mg/L		07/27/23 12:57	07/28/23 17:55	1
Lead	<0.00021		0.0010	0.00021	mg/L		07/27/23 12:57	07/28/23 17:55	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		07/27/23 12:57	07/28/23 17:55	1
Zinc	**0.019**		0.0050	0.0028	mg/L		07/27/23 12:57	07/28/23 17:55	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			08/02/23 10:05	1

Client Sample ID: MCI-LF3-FB-09

Lab Sample ID: 680-238216-6

Date Collected: 07/26/23 13:50

Matrix: Water

Date Received: 07/27/23 08:48

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**0.31**	**J**	1.0	0.20	mg/L			07/29/23 18:37	1
Fluoride	<0.040		0.10	0.040	mg/L			07/29/23 18:37	1
Sulfate	<0.40		1.0	0.40	mg/L			07/29/23 18:37	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		07/27/23 12:57	07/28/23 17:22	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		07/27/23 12:57	07/28/23 17:22	1
Boron	<0.022		0.080	0.022	mg/L		07/27/23 12:57	07/28/23 17:22	1
Calcium	<0.14		0.50	0.14	mg/L		07/27/23 12:57	07/28/23 17:22	1
Chromium	<0.0012		0.0020	0.0012	mg/L		07/27/23 12:57	07/28/23 17:22	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		07/27/23 12:57	07/28/23 17:22	1
Copper	<0.0011		0.0020	0.0011	mg/L		07/27/23 12:57	07/28/23 17:22	1
Lead	<0.00021		0.0010	0.00021	mg/L		07/27/23 12:57	07/28/23 17:22	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		07/27/23 12:57	07/28/23 17:22	1
Zinc	<0.0028		0.0050	0.0028	mg/L		07/27/23 12:57	07/28/23 17:22	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			08/02/23 10:05	1

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

Job ID: 680-238216-1

Client Sample ID: MCI-LF3-EB-11

Date Collected: 07/26/23 15:40
Date Received: 07/27/23 08:48

Lab Sample ID: 680-238216-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**0.28**	**J**	1.0	0.20	mg/L			07/29/23 17:59	1
Fluoride	<0.040		0.10	0.040	mg/L			07/29/23 17:59	1
Sulfate	<0.40		1.0	0.40	mg/L			07/29/23 17:59	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		07/27/23 12:57	07/28/23 17:35	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		07/27/23 12:57	07/28/23 17:35	1
Boron	<0.022		0.080	0.022	mg/L		07/27/23 12:57	07/28/23 17:35	1
Calcium	<0.14		0.50	0.14	mg/L		07/27/23 12:57	07/28/23 17:35	1
Chromium	<0.0012		0.0020	0.0012	mg/L		07/27/23 12:57	07/28/23 17:35	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		07/27/23 12:57	07/28/23 17:35	1
Copper	<0.0011		0.0020	0.0011	mg/L		07/27/23 12:57	07/28/23 17:35	1
Lead	<0.00021		0.0010	0.00021	mg/L		07/27/23 12:57	07/28/23 17:35	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		07/27/23 12:57	07/28/23 17:35	1
Zinc	<0.0028		0.0050	0.0028	mg/L		07/27/23 12:57	07/28/23 17:35	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			08/02/23 10:05	1

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

Lab Sample ID: MB 680-790612/33
Matrix: Water
Analysis Batch: 790612

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			07/28/23 17:30	1
Fluoride	<0.040		0.10	0.040	mg/L			07/28/23 17:30	1
Sulfate	<0.40		1.0	0.40	mg/L			07/28/23 17:30	1

Lab Sample ID: LCS 680-790612/34
Matrix: Water
Analysis Batch: 790612

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	10.0		mg/L		100	90 - 110
Fluoride	2.00	2.16		mg/L		108	90 - 110
Sulfate	10.0	10.1		mg/L		101	90 - 110

Lab Sample ID: LCSD 680-790612/35
Matrix: Water
Analysis Batch: 790612

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	10.0		mg/L		100	90 - 110	0	15
Fluoride	2.00	2.16		mg/L		108	90 - 110	0	15
Sulfate	10.0	10.1		mg/L		101	90 - 110	0	15

Lab Sample ID: 680-238173-C-27 MS
Matrix: Water
Analysis Batch: 790612

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.1		10.0	15.0		mg/L		99	80 - 120
Fluoride	0.11		2.00	2.15		mg/L		102	80 - 120
Sulfate	1.6		10.0	11.0		mg/L		94	80 - 120

Lab Sample ID: 680-238173-C-27 MSD
Matrix: Water
Analysis Batch: 790612

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.1		10.0	14.9		mg/L		99	80 - 120	1	15
Fluoride	0.11		2.00	2.13		mg/L		101	80 - 120	1	15
Sulfate	1.6		10.0	10.9		mg/L		94	80 - 120	0	15

Lab Sample ID: MB 680-790723/33
Matrix: Water
Analysis Batch: 790723

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			07/29/23 17:21	1
Fluoride	<0.040		0.10	0.040	mg/L			07/29/23 17:21	1
Sulfate	<0.40		1.0	0.40	mg/L			07/29/23 17:21	1

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

Lab Sample ID: LCS 680-790723/34
Matrix: Water
Analysis Batch: 790723

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	10.1		mg/L		101	90 - 110		
Fluoride			2.00	2.17		mg/L		109	90 - 110		
Sulfate			10.0	10.2		mg/L		102	90 - 110		

Lab Sample ID: LCSD 680-790723/35
Matrix: Water
Analysis Batch: 790723

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	0	15
Fluoride			2.00	2.17		mg/L		109	90 - 110	0	15
Sulfate			10.0	10.2		mg/L		102	90 - 110	0	15

Lab Sample ID: 680-238216-7 MS
Matrix: Water
Analysis Batch: 790723

Client Sample ID: MCI-LF3-EB-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	0.28	J	10.0	10.1		mg/L		98	80 - 120		
Fluoride	<0.040		2.00	2.08		mg/L		104	80 - 120		
Sulfate	<0.40		10.0	9.65		mg/L		97	80 - 120		

Lab Sample ID: 680-238216-7 MSD
Matrix: Water
Analysis Batch: 790723

Client Sample ID: MCI-LF3-EB-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	0.28	J	10.0	10.2		mg/L		99	80 - 120	1	15
Fluoride	<0.040		2.00	2.11		mg/L		106	80 - 120	1	15
Sulfate	<0.40		10.0	9.80		mg/L		98	80 - 120	1	15

Lab Sample ID: MB 680-791115/2
Matrix: Water
Analysis Batch: 791115

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			08/01/23 08:27	1
Fluoride	<0.040		0.10	0.040	mg/L			08/01/23 08:27	1
Sulfate	<0.40		1.0	0.40	mg/L			08/01/23 08:27	1

Lab Sample ID: LCS 680-791115/4
Matrix: Water
Analysis Batch: 791115

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	9.94		mg/L		99	90 - 110		
Fluoride			2.00	2.14		mg/L		107	90 - 110		
Sulfate			10.0	10.4		mg/L		104	90 - 110		

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

Lab Sample ID: LCSD 680-791115/5
Matrix: Water
Analysis Batch: 791115

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	9.95		mg/L		99	90 - 110	0	15
Fluoride			2.00	2.14		mg/L		107	90 - 110	0	15
Sulfate			10.0	10.3		mg/L		103	90 - 110	0	15

Lab Sample ID: 680-238329-X-1 MS
Matrix: Water
Analysis Batch: 791115

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	0.48	J	10.0	9.97		mg/L		95	80 - 120		
Fluoride	0.35		2.00	2.37		mg/L		101	80 - 120		
Sulfate	6.9		10.0	16.4		mg/L		95	80 - 120		

Lab Sample ID: 680-238329-X-1 MSD
Matrix: Water
Analysis Batch: 791115

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	0.48	J	10.0	10.5		mg/L		101	80 - 120	6	15
Fluoride	0.35		2.00	2.49		mg/L		107	80 - 120	5	15
Sulfate	6.9		10.0	16.9		mg/L		100	80 - 120	3	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-790407/1-A
Matrix: Water
Analysis Batch: 790716

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 790407

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		07/27/23 12:57	07/28/23 16:46	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		07/27/23 12:57	07/28/23 16:46	1
Boron	<0.022		0.080	0.022	mg/L		07/27/23 12:57	07/28/23 16:46	1
Calcium	<0.14		0.50	0.14	mg/L		07/27/23 12:57	07/28/23 16:46	1
Chromium	<0.0012		0.0020	0.0012	mg/L		07/27/23 12:57	07/28/23 16:46	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		07/27/23 12:57	07/28/23 16:46	1
Copper	<0.0011		0.0020	0.0011	mg/L		07/27/23 12:57	07/28/23 16:46	1
Lead	<0.00021		0.0010	0.00021	mg/L		07/27/23 12:57	07/28/23 16:46	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		07/27/23 12:57	07/28/23 16:46	1
Zinc	<0.0028		0.0050	0.0028	mg/L		07/27/23 12:57	07/28/23 16:46	1

Lab Sample ID: LCS 680-790407/2-A
Matrix: Water
Analysis Batch: 790716

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 790407

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Barium			0.100	0.102		mg/L		102	80 - 120		
Beryllium			0.0500	0.0484		mg/L		97	80 - 120		
Boron			0.200	0.193		mg/L		97	80 - 120		
Calcium			5.00	5.11		mg/L		102	80 - 120		
Chromium			0.100	0.101		mg/L		101	80 - 120		

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

Lab Sample ID: LCS 680-790407/2-A
Matrix: Water
Analysis Batch: 790716

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 790407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.0500	0.0511		mg/L		102	80 - 120
Copper	0.100	0.104		mg/L		104	80 - 120
Lead	0.500	0.478		mg/L		96	80 - 120
Vanadium	0.100	0.0940		mg/L		94	80 - 120
Zinc	0.100	0.0982		mg/L		98	80 - 120

Lab Sample ID: 680-238217-K-1-B MS
Matrix: Water
Analysis Batch: 790716

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 790407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.037		0.100	0.142		mg/L		105	75 - 125
Beryllium	<0.00020		0.0500	0.0523		mg/L		105	75 - 125
Boron	0.031	J	0.200	0.227		mg/L		98	75 - 125
Calcium	37		5.00	41.2	4	mg/L		81	75 - 125
Chromium	<0.0012		0.100	0.111		mg/L		111	75 - 125
Cobalt	<0.00022		0.0500	0.0555		mg/L		111	75 - 125
Copper	<0.0011		0.100	0.110		mg/L		110	75 - 125
Lead	<0.00021		0.500	0.508		mg/L		102	75 - 125
Vanadium	<0.00063		0.100	0.103		mg/L		103	75 - 125
Zinc	<0.0028		0.100	0.105		mg/L		105	75 - 125

Lab Sample ID: 680-238217-K-1-C MSD
Matrix: Water
Analysis Batch: 790716

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 790407

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.035		0.100	0.134		mg/L		99	75 - 125	6	20
Beryllium	<0.00020		0.0500	0.0495		mg/L		99	75 - 125	5	20
Boron	0.035	J	0.200	0.221		mg/L		93	75 - 125	3	20
Calcium	37		5.00	40.2	4	mg/L		63	75 - 125	3	20
Chromium	<0.0012		0.100	0.104		mg/L		104	75 - 125	7	20
Cobalt	<0.00022		0.0500	0.0522		mg/L		104	75 - 125	6	20
Copper	<0.0011		0.100	0.105		mg/L		105	75 - 125	5	20
Lead	<0.00021		0.500	0.495		mg/L		99	75 - 125	2	20
Vanadium	<0.00063		0.100	0.0985		mg/L		98	75 - 125	5	20
Zinc	<0.0028		0.100	0.0971		mg/L		97	75 - 125	8	20

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

Lab Sample ID: MB 680-791184/1
Matrix: Water
Analysis Batch: 791184

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			08/01/23 12:13	1

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

Lab Sample ID: LCS 680-791184/2
Matrix: Water
Analysis Batch: 791184

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	2380	2380		mg/L		100	80 - 120

Lab Sample ID: LCSD 680-791184/3
Matrix: Water
Analysis Batch: 791184

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	2380	2390		mg/L		100	80 - 120	0	25

Lab Sample ID: 680-238215-B-1 DU
Matrix: Water
Analysis Batch: 791184

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	760		758		mg/L		0.3	5

Lab Sample ID: 680-238257-B-1 DU
Matrix: Water
Analysis Batch: 791184

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	78		68.0	F5	mg/L		14	5

Lab Sample ID: MB 680-791327/1
Matrix: Water
Analysis Batch: 791327

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			08/02/23 10:05	1

Lab Sample ID: LCS 680-791327/2
Matrix: Water
Analysis Batch: 791327

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	2380	2410		mg/L		101	80 - 120

Lab Sample ID: LCSD 680-791327/3
Matrix: Water
Analysis Batch: 791327

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	2380	2330		mg/L		98	80 - 120	3	25

Lab Sample ID: 680-238217-F-2 DU
Matrix: Water
Analysis Batch: 791327

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	150		144		mg/L		3	5

HPLC/IC

Analysis Batch: 790612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238216-1	MCI-GWA-1B	Total/NA	Water	300.0-1993 R2.1	
680-238216-2	MCI-GWC-1A	Total/NA	Water	300.0-1993 R2.1	
680-238216-3	MCI-GWC-5A	Total/NA	Water	300.0-1993 R2.1	
680-238216-4	MCI-GWC-6A	Total/NA	Water	300.0-1993 R2.1	
MB 680-790612/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-790612/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-790612/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-238173-C-27 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-238173-C-27 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 790723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238216-6	MCI-LF3-FB-09	Total/NA	Water	300.0-1993 R2.1	
680-238216-7	MCI-LF3-EB-11	Total/NA	Water	300.0-1993 R2.1	
MB 680-790723/33	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-790723/34	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-790723/35	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-238216-7 MS	MCI-LF3-EB-11	Total/NA	Water	300.0-1993 R2.1	
680-238216-7 MSD	MCI-LF3-EB-11	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 791115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238216-5	MCI-LF3-FD-05	Total/NA	Water	300.0-1993 R2.1	
MB 680-791115/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-791115/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-791115/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-238329-X-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-238329-X-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 790407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238216-1	MCI-GWA-1B	Total Recoverable	Water	3005A	
680-238216-2	MCI-GWC-1A	Total Recoverable	Water	3005A	
680-238216-3	MCI-GWC-5A	Total Recoverable	Water	3005A	
680-238216-4	MCI-GWC-6A	Total Recoverable	Water	3005A	
680-238216-5	MCI-LF3-FD-05	Total Recoverable	Water	3005A	
680-238216-6	MCI-LF3-FB-09	Total Recoverable	Water	3005A	
680-238216-7	MCI-LF3-EB-11	Total Recoverable	Water	3005A	
MB 680-790407/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-790407/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-238217-K-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-238217-K-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 790716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238216-1	MCI-GWA-1B	Total Recoverable	Water	6020B	790407
680-238216-2	MCI-GWC-1A	Total Recoverable	Water	6020B	790407
680-238216-3	MCI-GWC-5A	Total Recoverable	Water	6020B	790407
680-238216-4	MCI-GWC-6A	Total Recoverable	Water	6020B	790407

Metals (Continued)

Analysis Batch: 790716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238216-5	MCI-LF3-FD-05	Total Recoverable	Water	6020B	790407
680-238216-6	MCI-LF3-FB-09	Total Recoverable	Water	6020B	790407
680-238216-7	MCI-LF3-EB-11	Total Recoverable	Water	6020B	790407
MB 680-790407/1-A	Method Blank	Total Recoverable	Water	6020B	790407
LCS 680-790407/2-A	Lab Control Sample	Total Recoverable	Water	6020B	790407
680-238217-K-1-B MS	Matrix Spike	Total Recoverable	Water	6020B	790407
680-238217-K-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	790407

General Chemistry

Analysis Batch: 791184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238216-1	MCI-GWA-1B	Total/NA	Water	2540C-2011	
680-238216-2	MCI-GWC-1A	Total/NA	Water	2540C-2011	
680-238216-3	MCI-GWC-5A	Total/NA	Water	2540C-2011	
680-238216-4	MCI-GWC-6A	Total/NA	Water	2540C-2011	
MB 680-791184/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-791184/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-791184/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-238215-B-1 DU	Duplicate	Total/NA	Water	2540C-2011	
680-238257-B-1 DU	Duplicate	Total/NA	Water	2540C-2011	

Analysis Batch: 791327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-238216-5	MCI-LF3-FD-05	Total/NA	Water	2540C-2011	
680-238216-6	MCI-LF3-FB-09	Total/NA	Water	2540C-2011	
680-238216-7	MCI-LF3-EB-11	Total/NA	Water	2540C-2011	
MB 680-791327/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-791327/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-791327/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-238217-F-2 DU	Duplicate	Total/NA	Water	2540C-2011	

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-238216-1

Date Collected: 07/26/23 13:00

Matrix: Water

Date Received: 07/27/23 08:48

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	790612	07/28/23 18:46	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	790407	07/27/23 12:57	RR	EET SAV
Total Recoverable	Analysis	6020B		1			790716	07/28/23 17:39	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	791184	08/01/23 12:13	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-238216-2

Date Collected: 07/26/23 15:15

Matrix: Water

Date Received: 07/27/23 08:48

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	790612	07/28/23 18:59	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	790407	07/27/23 12:57	RR	EET SAV
Total Recoverable	Analysis	6020B		1			790716	07/28/23 17:43	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	791184	08/01/23 12:13	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-238216-3

Date Collected: 07/26/23 16:30

Matrix: Water

Date Received: 07/27/23 08:48

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	790612	07/28/23 19:11	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	790407	07/27/23 12:57	RR	EET SAV
Total Recoverable	Analysis	6020B		1			790716	07/28/23 17:47	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	791184	08/01/23 12:13	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-238216-4

Date Collected: 07/26/23 14:10

Matrix: Water

Date Received: 07/27/23 08:48

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	790612	07/28/23 19:24	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	790407	07/27/23 12:57	RR	EET SAV
Total Recoverable	Analysis	6020B		1			790716	07/28/23 17:51	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	791184	08/01/23 12:13	PG	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Job ID: 680-238216-1
Project/Site: Plant McIntosh Landfill #3

Client Sample ID: MCI-LF3-FD-05
Lab Sample ID: 680-238216-5
Date Collected: 07/26/23 00:00
Matrix: Water
Date Received: 07/27/23 08:48

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	791115	08/01/23 10:14	OK	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	790407	07/27/23 12:57	RR	EET SAV
Total Recoverable	Analysis	6020B		1			790716	07/28/23 17:55	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	791327	08/02/23 10:05	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-LF3-FB-09
Lab Sample ID: 680-238216-6
Date Collected: 07/26/23 13:50
Matrix: Water
Date Received: 07/27/23 08:48

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	790723	07/29/23 18:37	OK	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	790407	07/27/23 12:57	RR	EET SAV
Total Recoverable	Analysis	6020B		1			790716	07/28/23 17:22	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	791327	08/02/23 10:05	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-LF3-EB-11
Lab Sample ID: 680-238216-7
Date Collected: 07/26/23 15:40
Matrix: Water
Date Received: 07/27/23 08:48

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	790723	07/29/23 17:59	OK	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	790407	07/27/23 12:57	RR	EET SAV
Total Recoverable	Analysis	6020B		1			790716	07/28/23 17:35	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	791327	08/02/23 10:05	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
Job ID: 680-238216-1
Project/Site: Plant McIntosh Landfill #3

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

Method Summary

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

Job ID: 680-238216-1

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: A Schnitker ACC	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No
Client Contact: SCS Contacts	Phone: 770 594 5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of 1
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard.			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027732			
Email: SCS Contacts / ACC Contacts	PO #:			
Project Name: Plant McIntosh Landfill 3	Project #:			
Site: Georgia	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N - None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S - H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W - pH 4-5, Z other (specify)

Other:

Task_Code: MCI-CCR-OTH-20230726

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)	APP III Metals: B,Ca	Cl F SO4 & TDS (EPA 300.0 & SM 2540C)	Custom State 8 Permit Metals (EPA 6020): Ba,Be Cr Co,Cu Pb V,Zn	Total Number of containers
			Preservation Code:				D	I	D	
MCI- GWA-1B	07/26/23	1300	G	WG	N	N	✓	✓	✓	3
MCI- GWC-1A	07/26/23	1515	G	WG	N	N	✓	✓	✓	3
MCI- GWC-5A	07/26/23	1630	G	WG	N	N	✓	✓	✓	3
MCI- GWC-6A	07/26/23	1410	G	WG	N	N	✓	✓	✓	3
MCI- LF3-FD-05	07/26/23	—	G	WG	N	N	✓	✓	✓	3
MCI- LF3-FB-09	07/26/23	1350	G	WQ	N	N	✓	✓	✓	3
MCI- LF3-EB-11	07/26/23	1540	G	WQ	N	N	✓	✓	✓	3

680-238216 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed ...)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: State Permit Metals barium, beryllium, chromium, cobalt, copper, lead, vanadium, zinc

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		07/27/23 0848				
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by: C.Mmo	Date/Time 7/27/23 0848	Company Eurofins

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 3.0/3.1

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-238216-1

Login Number: 238216

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	

LEVEL 2A LABORATORY DATA VALIDATIONS

McIntosh Inactive Landfill No. 3

Background Event N=8

July 2023

Georgia Power Company – McIntosh Landfill 3

Quality Control Review of Analytical Data – July 2023

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins Environment Testing America, Savannah for groundwater samples collected at McIntosh Landfill 3 (LF3) on July 26, 2023. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1 of this Appendix.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 Code of Federal Regulations (CFR), Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detection monitoring constituents listed in 40 CFR, Part 257, Appendix III and 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.

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. The applied qualifications may not have been required for all samples collected at the site.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh LF3 sampled on July 26, 2023 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

[1]US EPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0

[2]US EPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

TABLE 1

Georgia Power Company – McIntosh LF3

Sample Summary Table – July 2023

						Analyses		
SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Metals (6020B)	Anions (300.0)	TDS (SM 2540C)
238216	MCI-GWA-1B	07/26/23	680-238216-1	WG		X	X	X
238216	MCI-GWC-1A	07/26/23	680-238216-2	WG		X	X	X
238216	MCI-GWC-5A	07/26/23	680-238216-3	WG		X	X	X
238216	MCI-GWC-6A	07/26/23	680-238216-4	WG		X	X	X
238216	MCI-LF3-FD-05	07/26/23	680-238216-5	WG	FD (MCI-GWC-1A)	X	X	X
238216	MCI-LF3-FB-09	07/26/23	680-238216-6	WQ	FB	X	X	X
238216	MCI-LF3-EB-11	07/26/23	680-238216-7	WQ	EB	X	X	X

Abbreviations:
EB – Equipment Blank
FB – Field Blank
FD – Field Duplicate
WG – Groundwater
QC – Quality Control
SDG – Sample Delivery Group
TDS – Total Dissolved Solids
WQ – Water Quality Control

Low-Flow Test Report:

Test Date / Time: 7/26/2023 12:15:10 PM
Project: Plant McIntosh LF 3
Operator Name: A. Schnittker

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: 22.63 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 11.3 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 2 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sample time 1300. Sunny 90s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 1	
7/26/2023 12:15 PM	00:00	7.14 pH	28.19 °C	48.44 µS/cm	4.48 mg/L	3.95 NTU	108.8 mV	22.63 ft	250.00 ml/min
7/26/2023 12:20 PM	05:00	5.15 pH	22.22 °C	36.19 µS/cm	0.28 mg/L	4.18 NTU	107.6 mV	22.80 ft	250.00 ml/min
7/26/2023 12:25 PM	10:00	5.13 pH	21.82 °C	36.68 µS/cm	0.20 mg/L	1.62 NTU	97.4 mV	22.80 ft	250.00 ml/min
7/26/2023 12:30 PM	15:00	5.18 pH	21.89 °C	37.90 µS/cm	0.19 mg/L	1.22 NTU	96.8 mV	22.80 ft	250.00 ml/min
7/26/2023 12:35 PM	20:00	5.26 pH	22.11 °C	40.61 µS/cm	0.16 mg/L	0.88 NTU	96.4 mV	22.80 ft	250.00 ml/min
7/26/2023 12:40 PM	25:00	5.43 pH	22.00 °C	46.28 µS/cm	0.17 mg/L	0.89 NTU	94.7 mV	22.80 ft	250.00 ml/min
7/26/2023 12:45 PM	30:00	5.71 pH	21.91 °C	54.80 µS/cm	0.15 mg/L	1.15 NTU	89.2 mV	22.80 ft	250.00 ml/min
7/26/2023 12:50 PM	35:00	5.79 pH	22.20 °C	58.39 µS/cm	0.14 mg/L	0.64 NTU	85.6 mV	22.80 ft	250.00 ml/min
7/26/2023 12:55 PM	40:00	5.82 pH	22.20 °C	58.69 µS/cm	0.13 mg/L	0.76 NTU	83.6 mV	22.80 ft	250.00 ml/min
7/26/2023 1:00 PM	45:00	5.86 pH	22.04 °C	60.62 µS/cm	0.14 mg/L	0.67 NTU	81.3 mV	22.80 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 7/26/2023 2:45:42 PM
Project: Plant McIntosh LF 3
Operator Name: A. Schnittker

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: 22.72 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 11 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sample time 1515. Sunny 90s. FD-05 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 1	
7/26/2023 2:45 PM	00:00	4.25 pH	23.02 °C	68.88 µS/cm	0.48 mg/L	2.24 NTU	112.2 mV	22.72 ft	150.00 ml/min
7/26/2023 2:50 PM	05:00	4.25 pH	22.90 °C	67.75 µS/cm	0.46 mg/L	3.34 NTU	114.0 mV	23.60 ft	150.00 ml/min
7/26/2023 2:55 PM	10:00	4.20 pH	22.78 °C	68.82 µS/cm	0.54 mg/L	1.48 NTU	115.9 mV	23.60 ft	150.00 ml/min
7/26/2023 3:00 PM	15:00	4.18 pH	22.67 °C	68.43 µS/cm	0.53 mg/L	1.12 NTU	117.6 mV	23.60 ft	150.00 ml/min
7/26/2023 3:05 PM	20:00	4.26 pH	22.63 °C	67.61 µS/cm	0.40 mg/L	0.84 NTU	114.8 mV	23.60 ft	150.00 ml/min
7/26/2023 3:10 PM	25:00	4.23 pH	22.58 °C	68.08 µS/cm	0.38 mg/L	0.51 NTU	116.6 mV	23.60 ft	150.00 ml/min
7/26/2023 3:15 PM	30:00	4.26 pH	22.62 °C	67.84 µS/cm	0.45 mg/L	0.87 NTU	115.6 mV	23.60 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/26/2023 3:50:21 PM
Project: Plant McIntosh LF 3
Operator Name: A. Schnittker

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: 24.47 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **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: 4 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sample time 1630. Sunny 90s. EB-11 here at 15:40.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 1	
7/26/2023 3:50 PM	00:00	4.62 pH	26.91 °C	26.50 µS/cm	2.65 mg/L	1.94 NTU	121.2 mV	24.47 ft	150.00 ml/min
7/26/2023 3:55 PM	05:00	4.60 pH	23.64 °C	27.31 µS/cm	1.04 mg/L	1.84 NTU	124.5 mV	24.80 ft	150.00 ml/min
7/26/2023 4:00 PM	10:00	4.56 pH	23.35 °C	27.42 µS/cm	0.93 mg/L	1.41 NTU	127.3 mV	24.80 ft	150.00 ml/min
7/26/2023 4:05 PM	15:00	4.55 pH	23.76 °C	27.44 µS/cm	0.85 mg/L	1.17 NTU	128.1 mV	24.80 ft	150.00 ml/min
7/26/2023 4:10 PM	20:00	4.59 pH	24.15 °C	27.27 µS/cm	0.79 mg/L	0.67 NTU	126.6 mV	24.80 ft	150.00 ml/min
7/26/2023 4:15 PM	25:00	4.55 pH	23.70 °C	27.32 µS/cm	0.73 mg/L	0.73 NTU	129.3 mV	24.80 ft	150.00 ml/min
7/26/2023 4:20 PM	30:00	4.61 pH	23.70 °C	27.09 µS/cm	0.66 mg/L	0.64 NTU	128.5 mV	24.80 ft	150.00 ml/min
7/26/2023 4:25 PM	35:00	4.58 pH	23.57 °C	27.23 µS/cm	0.58 mg/L	0.52 NTU	131.0 mV	24.80 ft	150.00 ml/min
7/26/2023 4:30 PM	40:00	4.57 pH	23.37 °C	27.09 µS/cm	0.51 mg/L	0.46 NTU	132.1 mV	24.80 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 7/26/2023 1:40:11 PM
Project: Plant McIntosh LF 3
Operator Name: A. Schnittker

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: 24.5 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Pump Intake From TOC: 37 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 10 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sample time 1410. Sunny 90s. FB-09 here at 1350.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 1	
7/26/2023 1:40 PM	00:00	5.24 pH	30.55 °C	53.02 µS/cm	5.48 mg/L	3.13 NTU	100.3 mV	24.50 ft	250.00 ml/min
7/26/2023 1:45 PM	05:00	4.97 pH	23.17 °C	52.84 µS/cm	0.33 mg/L	1.61 NTU	102.0 mV	25.20 ft	250.00 ml/min
7/26/2023 1:50 PM	10:00	5.01 pH	22.27 °C	52.88 µS/cm	0.24 mg/L	0.89 NTU	103.3 mV	25.20 ft	250.00 ml/min
7/26/2023 1:55 PM	15:00	4.98 pH	22.28 °C	53.06 µS/cm	0.23 mg/L	0.95 NTU	103.9 mV	25.30 ft	250.00 ml/min
7/26/2023 2:00 PM	20:00	5.00 pH	22.13 °C	52.41 µS/cm	0.22 mg/L	1.10 NTU	104.3 mV	25.30 ft	250.00 ml/min
7/26/2023 2:05 PM	25:00	4.94 pH	22.04 °C	52.38 µS/cm	0.23 mg/L	0.92 NTU	108.2 mV	25.30 ft	250.00 ml/min
7/26/2023 2:10 PM	30:00	4.93 pH	22.07 °C	52.05 µS/cm	0.23 mg/L	0.64 NTU	108.8 mV	25.30 ft	250.00 ml/min

Samples

Sample ID:	Description:

ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

SITE: Plant ~~Branch~~ McIntosh

TECHNICIAN: A Schmidtlein

WATER LEVEL: Solinst

WATER LEVEL S/N: 3770680

INSTRUMENT S/N: 965678

INSTRUMENT TYPE: AquaTroll

CAL. SOLUTION/S:

ID: pH 4	LOT #: 2GH670	EXP. DATE: 08/24	
ID: pH 7	LOT #: 2GC109	EXP. DATE: 3/24	
ID: pH 10	LOT #: 2GD18	EXP. DATE: 7/24	
ID: Con	LOT #: 2G1042	EXP. DATE: 9/23	
ID: ORP	LOT #: 2GL022	EXP. DATE: 9/23	
ID:	LOT #:	EXP. DATE:	
ID:	LOT #:	EXP. DATE:	

Midday pH check

Must be less that .10

(6.90-7.10 range)

Recalibrate if not within range

Calibration Date: 7/26/23

RDO: 100% sat. = 94.55

PH: 4.00 = 4.03 7.00 = 7.03 10.00 = 10.04 — *Midday pH check* 7.0 = 7.00

PH Recal (if needed): 4.00 = NA 7.00 = NA 10.00 = NA — 7.0= NA post recal check

CONDUCTIVITY: 1413 = 1472.2

ORP (mV) 228 = 225.0

Calibration Date:

RDO: 100% sat. =

PH: 4.00 = 7.00 = 10.00 = — *Midday pH check* 7.0 =

PH Recal (if needed): 4.00 = 7.00 = 10.00 = — 7.0= post recal check

CONDUCTIVITY: =

ORP (mV) =

Calibration Date:

RDO: 100% sat. =

PH: 4.00 = 7.00 = 10.00 = — *Midday pH check* 7.0 =

PH Recal (if needed): 4.00 = 7.00 = 10.00 = — 7.0= post recal check

CONDUCTIVITY: =

ORP (mV) =

Calibration Date:

RDO: 100% sat. =

PH: 4.00 = 7.00 = 10.00 = — *Midday pH check* 7.0 =

PH Recal (if needed): 4.00 = 7.00 = 10.00 = — 7.0= post recal check

CONDUCTIVITY: =

ORP (mV) =

Calibration Date:

RDO: 100% sat. =

PH: 4.00 = 7.00 = 10.00 = — *Midday pH check* 7.0 =

PH Recal (if needed): 4.00 = 7.00 = 10.00 = — 7.0= post recal check

CONDUCTIVITY: =

ORP (mV) =

ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

SITE: Plant ~~Branch~~ McIntosh

TECHNICIAN: A Schnitker

INSTRUMENT S/N: 16040C049767

INSTRUMENT TYPE: Hach 2100Q

CAL. SOLUTION:

0 NTU - LOT #	NA	EXP. DATE: Fresh DI Water
10 NTU - LOT #	A2122	EXP. DATE: 8/23
20 NTU - LOT #	A2200	EXP. DATE: 11/23

Calibration Date: 7/26/23

Calibation Solution	Instrument Reading	
0.0	0.56	NTU
10.0	10.2	NTU
20.0	20.6	NTU

Calibration Date: 7/26/23 Back up meter

Calibation Solution	Instrument Reading	
0.0	0.32	NTU
10.0	10.6	NTU
20.0	19.4	NTU

Calibration Date:

Calibation Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibation Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibation Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibation Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Atlantic Coast Consulting, Inc.

APPENDIX A

Laboratory Analytical and Field Sampling Reports
August 2023 Monitoring Event

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/18/2023 3:02:15 PM Revision 1

JOB DESCRIPTION

Plant McIntosh Landfill 3

JOB NUMBER

680-239627-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

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
9/18/2023 3:02:15 PM
Revision 1

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: 680-239627-1

Qualifiers

HPLC/IC

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.

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: 680-239627-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-239627-1	MCI-GWA-7A	Water	08/28/23 16:45	08/29/23 16:28
680-239627-2	MCI-GWA-1B	Water	08/28/23 18:35	08/29/23 16:28
680-239627-3	MCI-GWA-2B	Water	08/29/23 09:30	08/29/23 16:28
680-239627-4	MCI-GWA-3A	Water	08/29/23 10:25	08/29/23 16:28
680-239627-5	MCI-LF3-EB-11	Water	08/29/23 10:40	08/29/23 16:28
680-239627-6	MCI-GWC-6A	Water	08/29/23 11:22	08/29/23 16:28
680-239627-7	MCI-LF3-FB-10	Water	08/29/23 13:25	08/29/23 16:28
680-239627-8	MCI-LF3-EB-12	Water	08/29/23 14:15	08/29/23 16:28
680-239627-9	MCI-GWC-2	Water	08/29/23 13:45	08/29/23 16:28
680-239629-1	MCI-GWA-4	Water	08/28/23 17:16	08/29/23 16:28
680-239629-2	MCI-GWC-5A	Water	08/29/23 11:03	08/29/23 16:28
680-239629-3	MCI-LF3-FD-05	Water	08/29/23 00:00	08/29/23 16:28
680-239629-4	MCI-GWC-1A	Water	08/29/23 12:18	08/29/23 16:28
680-239629-5	MCI-LF3-FB-09	Water	08/29/23 12:30	08/29/23 16:28
680-239629-6	MCI-LF3-GWC-4A	Water	08/29/23 13:25	08/29/23 16:28
680-239629-7	MCI-LF3-FD-06	Water	08/29/23 00:00	08/29/23 16:28

Job ID: 680-239627-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-239627-1

Revision 1
The report being provided is a revision of the original report sent on 9/8/2023. The report (revision 1) is being revised due to an error during the login of these samples. All the bottles containing the water from MCI-LF3-FB-10 were labeled with Lab Sample ID 680-239629-6 (MCI-LF3-GWC-4A) while all the bottles containing the water from MCI-LF3-GWC-4A were labeled with Lab Sample ID 680-239627-7 (MCI-LF3-FB-10). This mis-labeling has been corrected and samples re-processed with this revised report.

Receipt
The samples were received on 8/29/2023 4:28 PM. 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 1.0°C and 1.1°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: The sample duplicate precision for the following sample associated with analytical batch 680-795829 was outside control limits: (680-239515-A-1 DU). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

Method 2540C: The sample duplicate precision for the following sample associated with analytical batch 680-796501 was outside control limits: (680-239698-E-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.

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

Job ID: 680-239627-1

Client Sample ID: MCI-GWA-7A

Lab Sample ID: 680-239627-1

Date Collected: 08/28/23 16:45
Matrix: Water
Date Received: 08/29/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.1		1.0	0.20	mg/L			08/31/23 11:12	1
Fluoride	<0.040		0.10	0.040	mg/L			08/31/23 11:12	1
Sulfate	67		1.0	0.40	mg/L			08/31/23 11:12	1

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		08/30/23 07:36	08/31/23 18:43	1
Beryllium	0.00050	J	0.0025	0.00020	mg/L		08/30/23 07:36	08/31/23 18:43	1
Boron	1.2		0.080	0.022	mg/L		08/30/23 07:36	08/31/23 18:43	1
Calcium	14		0.50	0.14	mg/L		08/30/23 07:36	08/31/23 18:43	1
Chromium	0.0016	J	0.0020	0.0012	mg/L		08/30/23 07:36	08/31/23 18:43	1
Cobalt	0.0019	J	0.0025	0.00022	mg/L		08/30/23 07:36	08/31/23 18:43	1
Copper	0.0016	J	0.0020	0.0011	mg/L		08/30/23 07:36	08/31/23 18:43	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/30/23 07:36	08/31/23 18:43	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/30/23 07:36	08/31/23 18:43	1
Zinc	0.019		0.0050	0.0028	mg/L		08/30/23 07:36	08/31/23 18:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	140		10	10	mg/L			08/30/23 10:02	1

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-239627-2

Date Collected: 08/28/23 18:35
Matrix: Water
Date Received: 08/29/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.8		1.0	0.20	mg/L			08/31/23 11:50	1
Fluoride	0.21		0.10	0.040	mg/L			08/31/23 11:50	1
Sulfate	1.4		1.0	0.40	mg/L			08/31/23 11:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.023		0.010	0.00089	mg/L		08/30/23 07:36	08/31/23 18:39	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/30/23 07:36	08/31/23 18:39	1
Boron	0.035	J	0.080	0.022	mg/L		08/30/23 07:36	08/31/23 18:39	1
Calcium	8.6		0.50	0.14	mg/L		08/30/23 07:36	08/31/23 18:39	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/30/23 07:36	08/31/23 18:39	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/30/23 07:36	08/31/23 18:39	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/30/23 07:36	08/31/23 18:39	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/30/23 07:36	08/31/23 18:39	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/30/23 07:36	08/31/23 18:39	1
Zinc	0.0029	J	0.0050	0.0028	mg/L		08/30/23 07:36	08/31/23 18:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	85		10	10	mg/L			08/30/23 10:02	1

Client Sample ID: MCI-GWA-2B

Lab Sample ID: 680-239627-3

Date Collected: 08/29/23 09:30

Matrix: Water

Date Received: 08/29/23 16:28

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			08/31/23 12:02	1
Fluoride	<0.040		0.10	0.040	mg/L			08/31/23 12:02	1
Sulfate	**42**		1.0	0.40	mg/L			08/31/23 12:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.045**		0.010	0.00089	mg/L		08/30/23 07:36	08/31/23 17:22	1
Beryllium	**0.00063**	**J**	0.0025	0.00020	mg/L		08/30/23 07:36	08/31/23 17:22	1
Boron	**0.53**		0.080	0.022	mg/L		08/30/23 07:36	08/31/23 17:22	1
Calcium	**13**		0.50	0.14	mg/L		08/30/23 07:36	08/31/23 17:22	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/30/23 07:36	08/31/23 17:22	1
Cobalt	**0.0029**		0.0025	0.00022	mg/L		08/30/23 07:36	08/31/23 17:22	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/30/23 07:36	08/31/23 17:22	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/30/23 07:36	08/31/23 17:22	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/30/23 07:36	08/31/23 17:22	1
Zinc	**0.011**		0.0050	0.0028	mg/L		08/30/23 07:36	08/31/23 17:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**110**		10	10	mg/L			08/30/23 10:02	1

Client Sample ID: MCI-GWA-3A

Lab Sample ID: 680-239627-4

Date Collected: 08/29/23 10:25

Matrix: Water

Date Received: 08/29/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29**		1.0	0.20	mg/L			08/31/23 12:15	1
Fluoride	<0.040		0.10	0.040	mg/L			08/31/23 12:15	1
Sulfate	<0.40		1.0	0.40	mg/L			08/31/23 12:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.12**		0.010	0.00089	mg/L		08/30/23 07:36	08/31/23 17:50	1
Beryllium	**0.00071**	**J**	0.0025	0.00020	mg/L		08/30/23 07:36	08/31/23 17:50	1
Boron	**0.078**	**J**	0.080	0.022	mg/L		08/30/23 07:36	08/31/23 17:50	1
Calcium	**4.7**		0.50	0.14	mg/L		08/30/23 07:36	08/31/23 17:50	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/30/23 07:36	08/31/23 17:50	1
Cobalt	**0.0026**		0.0025	0.00022	mg/L		08/30/23 07:36	08/31/23 17:50	1
Copper	**0.0057**		0.0020	0.0011	mg/L		08/30/23 07:36	08/31/23 17:50	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/30/23 07:36	08/31/23 17:50	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/30/23 07:36	08/31/23 17:50	1
Zinc	**0.012**		0.0050	0.0028	mg/L		08/30/23 07:36	08/31/23 17:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**85**		10	10	mg/L			08/30/23 10:02	1

Client Sample ID: MCI-LF3-EB-11

Lab Sample ID: 680-239627-5

Date Collected: 08/29/23 10:40

Matrix: Water

Date Received: 08/29/23 16:28

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			08/31/23 12:27	1
Fluoride	**0.36**		0.10	0.040	mg/L			08/31/23 12:27	1
Sulfate	<0.40		1.0	0.40	mg/L			08/31/23 12:27	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		08/30/23 07:36	08/31/23 17:30	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/30/23 07:36	08/31/23 17:30	1
Boron	<0.022		0.080	0.022	mg/L		08/30/23 07:36	08/31/23 17:30	1
Calcium	<0.14		0.50	0.14	mg/L		08/30/23 07:36	08/31/23 17:30	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/30/23 07:36	08/31/23 17:30	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/30/23 07:36	08/31/23 17:30	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/30/23 07:36	08/31/23 17:30	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/30/23 07:36	08/31/23 17:30	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/30/23 07:36	08/31/23 17:30	1
Zinc	<0.0028		0.0050	0.0028	mg/L		08/30/23 07:36	08/31/23 17:30	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			08/30/23 10:02	1

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-239627-6

Date Collected: 08/29/23 11:22

Matrix: Water

Date Received: 08/29/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.5**		1.0	0.20	mg/L			08/31/23 12:40	1
Fluoride	<0.040		0.10	0.040	mg/L			08/31/23 12:40	1
Sulfate	**2.7**		1.0	0.40	mg/L			08/31/23 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.079**		0.010	0.00089	mg/L		08/30/23 07:36	08/31/23 17:38	1
Beryllium	**0.00026**	**J**	0.0025	0.00020	mg/L		08/30/23 07:36	08/31/23 17:38	1
Boron	**0.033**	**J**	0.080	0.022	mg/L		08/30/23 07:36	08/31/23 17:38	1
Calcium	**3.2**		0.50	0.14	mg/L		08/30/23 07:36	08/31/23 17:38	1
Chromium	**0.0013**	**J**	0.0020	0.0012	mg/L		08/30/23 07:36	08/31/23 17:38	1
Cobalt	**0.00099**	**J**	0.0025	0.00022	mg/L		08/30/23 07:36	08/31/23 17:38	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/30/23 07:36	08/31/23 17:38	1
Lead	**0.00038**	**J**	0.0010	0.00021	mg/L		08/30/23 07:36	08/31/23 17:38	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/30/23 07:36	08/31/23 17:38	1
Zinc	**0.0080**		0.0050	0.0028	mg/L		08/30/23 07:36	08/31/23 17:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**76**		10	10	mg/L			08/30/23 10:02	1

Client Sample ID: MCI-LF3-FB-10

Lab Sample ID: 680-239627-7

Date Collected: 08/29/23 13:25

Matrix: Water

Date Received: 08/29/23 16:28

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			08/31/23 15:25	1
Fluoride	**0.43**		0.10	0.040	mg/L			08/31/23 15:25	1
Sulfate	<0.40		1.0	0.40	mg/L			08/31/23 15:25	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		08/30/23 06:57	09/01/23 02:38	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/30/23 06:57	09/01/23 02:38	1
Boron	<0.022		0.080	0.022	mg/L		08/30/23 06:57	09/01/23 02:38	1
Calcium	<0.14		0.50	0.14	mg/L		08/30/23 06:57	09/01/23 02:38	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/30/23 06:57	09/01/23 02:38	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/30/23 06:57	09/01/23 02:38	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/30/23 06:57	09/01/23 02:38	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/30/23 06:57	09/01/23 02:38	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/30/23 06:57	09/01/23 02:38	1
Zinc	<0.0028		0.0050	0.0028	mg/L		08/30/23 06:57	09/01/23 02:38	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			08/30/23 10:02	1

Client Sample ID: MCI-LF3-EB-12

Lab Sample ID: 680-239627-8

Date Collected: 08/29/23 14:15

Matrix: Water

Date Received: 08/29/23 16:28

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			08/31/23 13:05	1
Fluoride	**0.38**		0.10	0.040	mg/L			08/31/23 13:05	1
Sulfate	<0.40		1.0	0.40	mg/L			08/31/23 13:05	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		08/30/23 07:36	08/31/23 18:27	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/30/23 07:36	08/31/23 18:27	1
Boron	<0.022		0.080	0.022	mg/L		08/30/23 07:36	08/31/23 18:27	1
Calcium	**0.16**	**J**	0.50	0.14	mg/L		08/30/23 07:36	08/31/23 18:27	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/30/23 07:36	08/31/23 18:27	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/30/23 07:36	08/31/23 18:27	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/30/23 07:36	08/31/23 18:27	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/30/23 07:36	08/31/23 18:27	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/30/23 07:36	08/31/23 18:27	1
Zinc	<0.0028		0.0050	0.0028	mg/L		08/30/23 07:36	08/31/23 18:27	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			08/30/23 10:02	1

Client Sample ID: MCI-GWC-2

Lab Sample ID: 680-239627-9

Date Collected: 08/29/23 13:45

Matrix: Water

Date Received: 08/29/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.8**		1.0	0.20	mg/L			08/31/23 13:18	1
Fluoride	<0.040		0.10	0.040	mg/L			08/31/23 13:18	1
Sulfate	**5.2**		1.0	0.40	mg/L			08/31/23 13:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.065**		0.010	0.00089	mg/L		08/30/23 07:36	08/31/23 17:26	1
Beryllium	**0.00031**	**J**	0.0025	0.00020	mg/L		08/30/23 07:36	08/31/23 17:26	1
Boron	**0.10**		0.080	0.022	mg/L		08/30/23 07:36	08/31/23 17:26	1
Calcium	**1.6**		0.50	0.14	mg/L		08/30/23 07:36	08/31/23 17:26	1
Chromium	**0.0037**		0.0020	0.0012	mg/L		08/30/23 07:36	08/31/23 17:26	1
Cobalt	**0.0014**	**J**	0.0025	0.00022	mg/L		08/30/23 07:36	08/31/23 17:26	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/30/23 07:36	08/31/23 17:26	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/30/23 07:36	08/31/23 17:26	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/30/23 07:36	08/31/23 17:26	1
Zinc	**0.0065**		0.0050	0.0028	mg/L		08/30/23 07:36	08/31/23 17:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**45**		10	10	mg/L			08/30/23 10:02	1

Client Sample ID: MCI-GWA-4

Lab Sample ID: 680-239629-1

Date Collected: 08/28/23 17:16

Matrix: Water

Date Received: 08/29/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.6**		1.0	0.20	mg/L			08/31/23 13:31	1
Fluoride	**0.051**	**J**	0.10	0.040	mg/L			08/31/23 13:31	1
Sulfate	**3.2**		1.0	0.40	mg/L			08/31/23 13:31	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		08/30/23 06:57	09/01/23 01:12	1
Beryllium	**0.00024**	**J**	0.0025	0.00020	mg/L		08/30/23 06:57	09/01/23 01:12	1
Boron	<0.022		0.080	0.022	mg/L		08/30/23 06:57	09/01/23 01:12	1
Calcium	**1.3**		0.50	0.14	mg/L		08/30/23 06:57	09/01/23 01:12	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/30/23 06:57	09/01/23 01:12	1
Cobalt	**0.0010**	**J**	0.0025	0.00022	mg/L		08/30/23 06:57	09/01/23 01:12	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/30/23 06:57	09/01/23 01:12	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/30/23 06:57	09/01/23 01:12	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/30/23 06:57	09/01/23 01:12	1
Zinc	**0.0064**		0.0050	0.0028	mg/L		08/30/23 06:57	09/01/23 01:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**48**		10	10	mg/L			08/30/23 10:02	1

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-239629-2

Date Collected: 08/29/23 11:03

Matrix: Water

Date Received: 08/29/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.2**		1.0	0.20	mg/L			08/31/23 14:09	1
Fluoride	<0.040		0.10	0.040	mg/L			08/31/23 14:09	1
Sulfate	**0.48**	**J**	1.0	0.40	mg/L			08/31/23 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.076**		0.010	0.00089	mg/L		08/30/23 06:57	09/01/23 02:22	1
Beryllium	**0.00031**	**J**	0.0025	0.00020	mg/L		08/30/23 06:57	09/01/23 02:22	1
Boron	<0.022		0.080	0.022	mg/L		08/30/23 06:57	09/01/23 02:22	1
Calcium	**1.1**		0.50	0.14	mg/L		08/30/23 06:57	09/01/23 02:22	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/30/23 06:57	09/01/23 02:22	1
Cobalt	**0.0023**	**J**	0.0025	0.00022	mg/L		08/30/23 06:57	09/01/23 02:22	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/30/23 06:57	09/01/23 02:22	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/30/23 06:57	09/01/23 02:22	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/30/23 06:57	09/01/23 02:22	1
Zinc	**0.010**		0.0050	0.0028	mg/L		08/30/23 06:57	09/01/23 02:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**36**		10	10	mg/L			08/30/23 10:02	1

Client Sample ID: MCI-LF3-FD-05

Lab Sample ID: 680-239629-3

Date Collected: 08/29/23 00:00

Matrix: Water

Date Received: 08/29/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.3**		1.0	0.20	mg/L			08/31/23 14:47	1
Fluoride	<0.040		0.10	0.040	mg/L			08/31/23 14:47	1
Sulfate	**0.49**	**J**	1.0	0.40	mg/L			08/31/23 14:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.075**		0.010	0.00089	mg/L		08/30/23 06:57	09/01/23 02:34	1
Beryllium	**0.00025**	**J**	0.0025	0.00020	mg/L		08/30/23 06:57	09/01/23 02:34	1
Boron	<0.022		0.080	0.022	mg/L		08/30/23 06:57	09/01/23 02:34	1
Calcium	**1.1**		0.50	0.14	mg/L		08/30/23 06:57	09/01/23 02:34	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/30/23 06:57	09/01/23 02:34	1
Cobalt	**0.0022**	**J**	0.0025	0.00022	mg/L		08/30/23 06:57	09/01/23 02:34	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/30/23 06:57	09/01/23 02:34	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/30/23 06:57	09/01/23 02:34	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/30/23 06:57	09/01/23 02:34	1
Zinc	**0.010**		0.0050	0.0028	mg/L		08/30/23 06:57	09/01/23 02:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**26**		10	10	mg/L			08/30/23 10:02	1

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-239629-4

Date Collected: 08/29/23 12:18
Matrix: Water
Date Received: 08/29/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13**		1.0	0.20	mg/L			08/31/23 14:59	1
Fluoride	**0.080**	**J**	0.10	0.040	mg/L			08/31/23 14:59	1
Sulfate	**0.40**	**J**	1.0	0.40	mg/L			08/31/23 14:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.24**		0.010	0.00089	mg/L		08/30/23 06:57	09/01/23 02:30	1
Beryllium	**0.00038**	**J**	0.0025	0.00020	mg/L		08/30/23 06:57	09/01/23 02:30	1
Boron	**0.042**	**J**	0.080	0.022	mg/L		08/30/23 06:57	09/01/23 02:30	1
Calcium	**2.5**		0.50	0.14	mg/L		08/30/23 06:57	09/01/23 02:30	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/30/23 06:57	09/01/23 02:30	1
Cobalt	**0.0047**		0.0025	0.00022	mg/L		08/30/23 06:57	09/01/23 02:30	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/30/23 06:57	09/01/23 02:30	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/30/23 06:57	09/01/23 02:30	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/30/23 06:57	09/01/23 02:30	1
Zinc	**0.017**		0.0050	0.0028	mg/L		08/30/23 06:57	09/01/23 02:30	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			08/30/23 10:02	1

Client Sample ID: MCI-LF3-FB-09

Lab Sample ID: 680-239629-5

Date Collected: 08/29/23 12:30
Matrix: Water
Date Received: 08/29/23 16:28

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			08/31/23 15:12	1
Fluoride	**0.45**		0.10	0.040	mg/L			08/31/23 15:12	1
Sulfate	<0.40		1.0	0.40	mg/L			08/31/23 15:12	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		08/30/23 06:57	09/01/23 01:21	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/30/23 06:57	09/01/23 01:21	1
Boron	<0.022		0.080	0.022	mg/L		08/30/23 06:57	09/01/23 01:21	1
Calcium	<0.14		0.50	0.14	mg/L		08/30/23 06:57	09/01/23 01:21	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/30/23 06:57	09/01/23 01:21	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/30/23 06:57	09/01/23 01:21	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/30/23 06:57	09/01/23 01:21	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/30/23 06:57	09/01/23 01:21	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/30/23 06:57	09/01/23 01:21	1
Zinc	<0.0028		0.0050	0.0028	mg/L		08/30/23 06:57	09/01/23 01:21	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			08/30/23 10:02	1

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

Job ID: 680-239627-1

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

Lab Sample ID: 680-239629-6

Date Collected: 08/29/23 13:25
Matrix: Water
Date Received: 08/29/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.1**		1.0	0.20	mg/L			08/31/23 12:53	1
Fluoride	<0.040		0.10	0.040	mg/L			08/31/23 12:53	1
Sulfate	**0.57**	**J**	1.0	0.40	mg/L			08/31/23 12:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.032**		0.010	0.00089	mg/L		08/30/23 07:36	08/31/23 17:34	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/30/23 07:36	08/31/23 17:34	1
Boron	<0.022		0.080	0.022	mg/L		08/30/23 07:36	08/31/23 17:34	1
Calcium	**0.37**	**J**	0.50	0.14	mg/L		08/30/23 07:36	08/31/23 17:34	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/30/23 07:36	08/31/23 17:34	1
Cobalt	**0.00045**	**J**	0.0025	0.00022	mg/L		08/30/23 07:36	08/31/23 17:34	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/30/23 07:36	08/31/23 17:34	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/30/23 07:36	08/31/23 17:34	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/30/23 07:36	08/31/23 17:34	1
Zinc	**0.0040**	**J**	0.0050	0.0028	mg/L		08/30/23 07:36	08/31/23 17:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**21**		10	10	mg/L			08/30/23 10:02	1

Client Sample ID: MCI-LF3-FD-06

Lab Sample ID: 680-239629-7

Date Collected: 08/29/23 00:00
Matrix: Water
Date Received: 08/29/23 16:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.1**		1.0	0.20	mg/L			08/31/23 15:38	1
Fluoride	<0.040		0.10	0.040	mg/L			08/31/23 15:38	1
Sulfate	**0.57**	**J**	1.0	0.40	mg/L			08/31/23 15:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.036**		0.010	0.00089	mg/L		08/30/23 06:57	09/01/23 01:17	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/30/23 06:57	09/01/23 01:17	1
Boron	<0.022		0.080	0.022	mg/L		08/30/23 06:57	09/01/23 01:17	1
Calcium	**0.37**	**J**	0.50	0.14	mg/L		08/30/23 06:57	09/01/23 01:17	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/30/23 06:57	09/01/23 01:17	1
Cobalt	**0.00049**	**J**	0.0025	0.00022	mg/L		08/30/23 06:57	09/01/23 01:17	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/30/23 06:57	09/01/23 01:17	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/30/23 06:57	09/01/23 01:17	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/30/23 06:57	09/01/23 01:17	1
Zinc	**0.0034**	**J**	0.0050	0.0028	mg/L		08/30/23 06:57	09/01/23 01:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**17**		10	10	mg/L			09/05/23 11:59	1

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

Lab Sample ID: MB 680-795920/2
Matrix: Water
Analysis Batch: 795920

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			08/31/23 10:21	1
Fluoride	<0.040		0.10	0.040	mg/L			08/31/23 10:21	1
Sulfate	<0.40		1.0	0.40	mg/L			08/31/23 10:21	1

Lab Sample ID: LCS 680-795920/4
Matrix: Water
Analysis Batch: 795920

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	9.61		mg/L		96	90 - 110		
Fluoride			2.00	2.04		mg/L		102	90 - 110		
Sulfate			10.0	10.1		mg/L		101	90 - 110		

Lab Sample ID: LCSD 680-795920/5
Matrix: Water
Analysis Batch: 795920

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	9.59		mg/L		96	90 - 110	0	15
Fluoride			2.00	2.03		mg/L		102	90 - 110	0	15
Sulfate			10.0	10.1		mg/L		101	90 - 110	1	15

Lab Sample ID: 680-239627-1 MS
Matrix: Water
Analysis Batch: 795920

Client Sample ID: MCI-GWA-7A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	7.1		10.0	16.7		mg/L		96	80 - 120		
Fluoride	<0.040		2.00	2.09		mg/L		105	80 - 120		
Sulfate	67		10.0	75.6	4	mg/L		85	80 - 120		

Lab Sample ID: 680-239627-1 MSD
Matrix: Water
Analysis Batch: 795920

Client Sample ID: MCI-GWA-7A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7.1		10.0	17.2		mg/L		101	80 - 120	3	15
Fluoride	<0.040		2.00	2.18		mg/L		109	80 - 120	4	15
Sulfate	67		10.0	75.6	4	mg/L		85	80 - 120	0	15

Lab Sample ID: 680-239629-2 MS
Matrix: Water
Analysis Batch: 795920

Client Sample ID: MCI-GWC-5A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	5.2		10.0	15.1		mg/L		99	80 - 120		
Fluoride	<0.040		2.00	2.14		mg/L		107	80 - 120		
Sulfate	0.48	J	10.0	10.5		mg/L		100	80 - 120		

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

Lab Sample ID: 680-239629-2 MSD
Matrix: Water
Analysis Batch: 795920

Client Sample ID: MCI-GWC-5A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.2		10.0	15.0		mg/L		97	80 - 120	1	15
Fluoride	<0.040		2.00	2.14		mg/L		107	80 - 120	0	15
Sulfate	0.48	J	10.0	10.4		mg/L		99	80 - 120	1	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-795758/1-A
Matrix: Water
Analysis Batch: 796106

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 795758

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		08/30/23 06:57	09/01/23 00:44	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/30/23 06:57	09/01/23 00:44	1
Boron	<0.022		0.080	0.022	mg/L		08/30/23 06:57	09/01/23 00:44	1
Calcium	<0.14		0.50	0.14	mg/L		08/30/23 06:57	09/01/23 00:44	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/30/23 06:57	09/01/23 00:44	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/30/23 06:57	09/01/23 00:44	1
Copper	<0.0011		0.0020	0.0011	mg/L		08/30/23 06:57	09/01/23 00:44	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/30/23 06:57	09/01/23 00:44	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/30/23 06:57	09/01/23 00:44	1
Zinc	<0.0028		0.0050	0.0028	mg/L		08/30/23 06:57	09/01/23 00:44	1

Lab Sample ID: LCS 680-795758/2-A
Matrix: Water
Analysis Batch: 796106

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 795758

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.102		mg/L		102	80 - 120
Beryllium	0.0500	0.0509		mg/L		102	80 - 120
Boron	0.200	0.194		mg/L		97	80 - 120
Calcium	5.00	5.32		mg/L		106	80 - 120
Chromium	0.100	0.102		mg/L		102	80 - 120
Cobalt	0.0500	0.0514		mg/L		103	80 - 120
Copper	0.100	0.109		mg/L		109	80 - 120
Lead	0.500	0.500		mg/L		100	80 - 120
Vanadium	0.100	0.0976		mg/L		98	80 - 120
Zinc	0.100	0.0997		mg/L		100	80 - 120

Lab Sample ID: MB 680-795770/1-A
Matrix: Water
Analysis Batch: 796106

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 795770

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		08/30/23 07:36	08/31/23 17:01	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		08/30/23 07:36	08/31/23 17:01	1
Boron	<0.022		0.080	0.022	mg/L		08/30/23 07:36	08/31/23 17:01	1
Calcium	<0.14		0.50	0.14	mg/L		08/30/23 07:36	08/31/23 17:01	1
Chromium	<0.0012		0.0020	0.0012	mg/L		08/30/23 07:36	08/31/23 17:01	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		08/30/23 07:36	08/31/23 17:01	1

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

Lab Sample ID: MB 680-795770/1-A
Matrix: Water
Analysis Batch: 796106

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 795770

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.0011		0.0020	0.0011	mg/L		08/30/23 07:36	08/31/23 17:01	1
Lead	<0.00021		0.0010	0.00021	mg/L		08/30/23 07:36	08/31/23 17:01	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		08/30/23 07:36	08/31/23 17:01	1
Zinc	<0.0028		0.0050	0.0028	mg/L		08/30/23 07:36	08/31/23 17:01	1

Lab Sample ID: LCS 680-795770/2-A
Matrix: Water
Analysis Batch: 796106

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 795770

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.0965		mg/L		96	80 - 120
Beryllium	0.0500	0.0468		mg/L		94	80 - 120
Boron	0.200	0.188		mg/L		94	80 - 120
Calcium	5.00	5.37		mg/L		107	80 - 120
Chromium	0.100	0.104		mg/L		104	80 - 120
Cobalt	0.0500	0.0525		mg/L		105	80 - 120
Copper	0.100	0.108		mg/L		108	80 - 120
Lead	0.500	0.498		mg/L		100	80 - 120
Vanadium	0.100	0.0983		mg/L		98	80 - 120
Zinc	0.100	0.101		mg/L		101	80 - 120

Lab Sample ID: 680-239613-A-28-B MS
Matrix: Water
Analysis Batch: 796106

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 795770

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.064		0.100	0.158		mg/L		94	75 - 125
Beryllium	<0.00020		0.0500	0.0489		mg/L		98	75 - 125
Boron	<0.022		0.200	0.196		mg/L		98	75 - 125
Calcium	10		5.00	15.4		mg/L		106	75 - 125
Chromium	0.0059		0.100	0.113		mg/L		107	75 - 125
Cobalt	<0.00022		0.0500	0.0542		mg/L		108	75 - 125
Copper	<0.0011		0.100	0.112		mg/L		112	75 - 125
Lead	<0.00021		0.500	0.525		mg/L		105	75 - 125
Vanadium	0.0078		0.100	0.111		mg/L		103	75 - 125
Zinc	0.0059		0.100	0.111		mg/L		105	75 - 125

Lab Sample ID: 680-239613-A-28-C MSD
Matrix: Water
Analysis Batch: 796106

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 795770

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.064		0.100	0.168		mg/L		104	75 - 125	6	20
Beryllium	<0.00020		0.0500	0.0498		mg/L		100	75 - 125	2	20
Boron	<0.022		0.200	0.204		mg/L		102	75 - 125	4	20
Calcium	10		5.00	15.5		mg/L		108	75 - 125	1	20
Chromium	0.0059		0.100	0.115		mg/L		109	75 - 125	2	20
Cobalt	<0.00022		0.0500	0.0550		mg/L		110	75 - 125	1	20
Copper	<0.0011		0.100	0.111		mg/L		111	75 - 125	1	20

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

Lab Sample ID: 680-239613-A-28-C MSD
Matrix: Water
Analysis Batch: 796106

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 795770

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	<0.00021		0.500	0.523		mg/L		105	75 - 125	0	20
Vanadium	0.0078		0.100	0.112		mg/L		104	75 - 125	1	20
Zinc	0.0059		0.100	0.111		mg/L		105	75 - 125	0	20

Lab Sample ID: 680-239616-D-1-E MS
Matrix: Water
Analysis Batch: 796106

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 795758

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.010		0.100	0.108		mg/L		98	75 - 125
Beryllium	<0.00020		0.0500	0.0510		mg/L		102	75 - 125
Boron	<0.022		0.200	0.214		mg/L		107	75 - 125
Calcium	5.5		5.00	10.2		mg/L		93	75 - 125
Chromium	<0.0012		0.100	0.103		mg/L		103	75 - 125
Cobalt	<0.00022		0.0500	0.0515		mg/L		103	75 - 125
Copper	<0.0011		0.100	0.111		mg/L		111	75 - 125
Lead	<0.00021		0.500	0.501		mg/L		100	75 - 125
Vanadium	<0.00063		0.100	0.102		mg/L		102	75 - 125
Zinc	<0.0028		0.100	0.104		mg/L		104	75 - 125

Lab Sample ID: 680-239616-D-1-F MSD
Matrix: Water
Analysis Batch: 796106

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 795758

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.010		0.100	0.108		mg/L		98	75 - 125	0	20
Beryllium	<0.00020		0.0500	0.0502		mg/L		100	75 - 125	2	20
Boron	<0.022		0.200	0.207		mg/L		104	75 - 125	3	20
Calcium	5.5		5.00	9.99		mg/L		90	75 - 125	2	20
Chromium	<0.0012		0.100	0.101		mg/L		101	75 - 125	2	20
Cobalt	<0.00022		0.0500	0.0500		mg/L		100	75 - 125	3	20
Copper	<0.0011		0.100	0.109		mg/L		109	75 - 125	2	20
Lead	<0.00021		0.500	0.495		mg/L		99	75 - 125	1	20
Vanadium	<0.00063		0.100	0.0996		mg/L		100	75 - 125	2	20
Zinc	<0.0028		0.100	0.101		mg/L		101	75 - 125	2	20

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

Lab Sample ID: MB 680-795829/1
Matrix: Water
Analysis Batch: 795829

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			08/30/23 10:02	1

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

Lab Sample ID: LCS 680-795829/2
Matrix: Water
Analysis Batch: 795829

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			2380	2380		mg/L		100	80 - 120		

Lab Sample ID: LCSD 680-795829/3
Matrix: Water
Analysis Batch: 795829

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			2380	2390		mg/L		100	80 - 120	0	25

Lab Sample ID: 680-239515-A-1 DU
Matrix: Water
Analysis Batch: 795829

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	270			254	F3	mg/L				7	5

Lab Sample ID: 680-239627-1 DU
Matrix: Water
Analysis Batch: 795829

Client Sample ID: MCI-GWA-7A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	140			144		mg/L				4	5

Lab Sample ID: MB 680-796501/1
Matrix: Water
Analysis Batch: 796501

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			09/05/23 11:59	1

Lab Sample ID: LCS 680-796501/2
Matrix: Water
Analysis Batch: 796501

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			2380	2390		mg/L		100	80 - 120		

Lab Sample ID: LCSD 680-796501/3
Matrix: Water
Analysis Batch: 796501

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			2380	2360		mg/L		99	80 - 120	1	25

Lab Sample ID: 680-239698-E-1 DU
Matrix: Water
Analysis Batch: 796501

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	180			156	F5	mg/L				14	5

HPLC/IC

Analysis Batch: 795920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239627-1	MCI-GWA-7A	Total/NA	Water	300.0-1993 R2.1	
680-239627-2	MCI-GWA-1B	Total/NA	Water	300.0-1993 R2.1	
680-239627-3	MCI-GWA-2B	Total/NA	Water	300.0-1993 R2.1	
680-239627-4	MCI-GWA-3A	Total/NA	Water	300.0-1993 R2.1	
680-239627-5	MCI-LF3-EB-11	Total/NA	Water	300.0-1993 R2.1	
680-239627-6	MCI-GWC-6A	Total/NA	Water	300.0-1993 R2.1	
680-239627-7	MCI-LF3-FB-10	Total/NA	Water	300.0-1993 R2.1	
680-239627-8	MCI-LF3-EB-12	Total/NA	Water	300.0-1993 R2.1	
680-239627-9	MCI-GWC-2	Total/NA	Water	300.0-1993 R2.1	
680-239629-1	MCI-GWA-4	Total/NA	Water	300.0-1993 R2.1	
680-239629-2	MCI-GWC-5A	Total/NA	Water	300.0-1993 R2.1	
680-239629-3	MCI-LF3-FD-05	Total/NA	Water	300.0-1993 R2.1	
680-239629-4	MCI-GWC-1A	Total/NA	Water	300.0-1993 R2.1	
680-239629-5	MCI-LF3-FB-09	Total/NA	Water	300.0-1993 R2.1	
680-239629-6	MCI-LF3-GWC-4A	Total/NA	Water	300.0-1993 R2.1	
680-239629-7	MCI-LF3-FD-06	Total/NA	Water	300.0-1993 R2.1	
MB 680-795920/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-795920/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-795920/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-239627-1 MS	MCI-GWA-7A	Total/NA	Water	300.0-1993 R2.1	
680-239627-1 MSD	MCI-GWA-7A	Total/NA	Water	300.0-1993 R2.1	
680-239629-2 MS	MCI-GWC-5A	Total/NA	Water	300.0-1993 R2.1	
680-239629-2 MSD	MCI-GWC-5A	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 795758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239627-7	MCI-LF3-FB-10	Total Recoverable	Water	3005A	
680-239629-1	MCI-GWA-4	Total Recoverable	Water	3005A	
680-239629-2	MCI-GWC-5A	Total Recoverable	Water	3005A	
680-239629-3	MCI-LF3-FD-05	Total Recoverable	Water	3005A	
680-239629-4	MCI-GWC-1A	Total Recoverable	Water	3005A	
680-239629-5	MCI-LF3-FB-09	Total Recoverable	Water	3005A	
680-239629-7	MCI-LF3-FD-06	Total Recoverable	Water	3005A	
MB 680-795758/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-795758/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-239616-D-1-E MS	Matrix Spike	Dissolved	Water	3005A	
680-239616-D-1-F MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

Prep Batch: 795770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239627-1	MCI-GWA-7A	Total Recoverable	Water	3005A	
680-239627-2	MCI-GWA-1B	Total Recoverable	Water	3005A	
680-239627-3	MCI-GWA-2B	Total Recoverable	Water	3005A	
680-239627-4	MCI-GWA-3A	Total Recoverable	Water	3005A	
680-239627-5	MCI-LF3-EB-11	Total Recoverable	Water	3005A	
680-239627-6	MCI-GWC-6A	Total Recoverable	Water	3005A	
680-239627-8	MCI-LF3-EB-12	Total Recoverable	Water	3005A	
680-239627-9	MCI-GWC-2	Total Recoverable	Water	3005A	
680-239629-6	MCI-LF3-GWC-4A	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 795770 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-795770/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-795770/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-239613-A-28-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-239613-A-28-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 796106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239627-1	MCI-GWA-7A	Total Recoverable	Water	6020B	795770
680-239627-2	MCI-GWA-1B	Total Recoverable	Water	6020B	795770
680-239627-3	MCI-GWA-2B	Total Recoverable	Water	6020B	795770
680-239627-4	MCI-GWA-3A	Total Recoverable	Water	6020B	795770
680-239627-5	MCI-LF3-EB-11	Total Recoverable	Water	6020B	795770
680-239627-6	MCI-GWC-6A	Total Recoverable	Water	6020B	795770
680-239627-7	MCI-LF3-FB-10	Total Recoverable	Water	6020B	795758
680-239627-8	MCI-LF3-EB-12	Total Recoverable	Water	6020B	795770
680-239627-9	MCI-GWC-2	Total Recoverable	Water	6020B	795770
680-239629-1	MCI-GWA-4	Total Recoverable	Water	6020B	795758
680-239629-2	MCI-GWC-5A	Total Recoverable	Water	6020B	795758
680-239629-3	MCI-LF3-FD-05	Total Recoverable	Water	6020B	795758
680-239629-4	MCI-GWC-1A	Total Recoverable	Water	6020B	795758
680-239629-5	MCI-LF3-FB-09	Total Recoverable	Water	6020B	795758
680-239629-6	MCI-LF3-GWC-4A	Total Recoverable	Water	6020B	795770
680-239629-7	MCI-LF3-FD-06	Total Recoverable	Water	6020B	795758
MB 680-795758/1-A	Method Blank	Total Recoverable	Water	6020B	795758
MB 680-795770/1-A	Method Blank	Total Recoverable	Water	6020B	795770
LCS 680-795758/2-A	Lab Control Sample	Total Recoverable	Water	6020B	795758
LCS 680-795770/2-A	Lab Control Sample	Total Recoverable	Water	6020B	795770
680-239613-A-28-B MS	Matrix Spike	Total Recoverable	Water	6020B	795770
680-239613-A-28-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	795770
680-239616-D-1-E MS	Matrix Spike	Dissolved	Water	6020B	795758
680-239616-D-1-F MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	795758

General Chemistry

Analysis Batch: 795829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239627-1	MCI-GWA-7A	Total/NA	Water	2540C-2011	
680-239627-2	MCI-GWA-1B	Total/NA	Water	2540C-2011	
680-239627-3	MCI-GWA-2B	Total/NA	Water	2540C-2011	
680-239627-4	MCI-GWA-3A	Total/NA	Water	2540C-2011	
680-239627-5	MCI-LF3-EB-11	Total/NA	Water	2540C-2011	
680-239627-6	MCI-GWC-6A	Total/NA	Water	2540C-2011	
680-239627-7	MCI-LF3-FB-10	Total/NA	Water	2540C-2011	
680-239627-8	MCI-LF3-EB-12	Total/NA	Water	2540C-2011	
680-239627-9	MCI-GWC-2	Total/NA	Water	2540C-2011	
680-239629-1	MCI-GWA-4	Total/NA	Water	2540C-2011	
680-239629-2	MCI-GWC-5A	Total/NA	Water	2540C-2011	
680-239629-3	MCI-LF3-FD-05	Total/NA	Water	2540C-2011	
680-239629-4	MCI-GWC-1A	Total/NA	Water	2540C-2011	
680-239629-5	MCI-LF3-FB-09	Total/NA	Water	2540C-2011	
680-239629-6	MCI-LF3-GWC-4A	Total/NA	Water	2540C-2011	

General Chemistry (Continued)

Analysis Batch: 795829 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-795829/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-795829/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-795829/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-239515-A-1 DU	Duplicate	Total/NA	Water	2540C-2011	
680-239627-1 DU	MCI-GWA-7A	Total/NA	Water	2540C-2011	

Analysis Batch: 796501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239629-7	MCI-LF3-FD-06	Total/NA	Water	2540C-2011	
MB 680-796501/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-796501/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-796501/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-239698-E-1 DU	Duplicate	Total/NA	Water	2540C-2011	

Lab Chronicle

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

Job ID: 680-239627-1

Client Sample ID: MCI-GWA-7A
Date Collected: 08/28/23 16:45
Date Received: 08/29/23 16:28

Lab Sample ID: 680-239627-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	795920	08/31/23 11:12	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	795770	08/30/23 07:36	RR	EET SAV
Total Recoverable	Analysis	6020B		1			796106	08/31/23 18:43	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	795829	08/30/23 10:02	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-GWA-1B
Date Collected: 08/28/23 18:35
Date Received: 08/29/23 16:28

Lab Sample ID: 680-239627-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	795920	08/31/23 11:50	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	795770	08/30/23 07:36	RR	EET SAV
Total Recoverable	Analysis	6020B		1			796106	08/31/23 18:39	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	795829	08/30/23 10:02	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-GWA-2B
Date Collected: 08/29/23 09:30
Date Received: 08/29/23 16:28

Lab Sample ID: 680-239627-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	795920	08/31/23 12:02	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	795770	08/30/23 07:36	RR	EET SAV
Total Recoverable	Analysis	6020B		1			796106	08/31/23 17:22	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	795829	08/30/23 10:02	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-GWA-3A
Date Collected: 08/29/23 10:25
Date Received: 08/29/23 16:28

Lab Sample ID: 680-239627-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	795920	08/31/23 12:15	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	795770	08/30/23 07:36	RR	EET SAV
Total Recoverable	Analysis	6020B		1			796106	08/31/23 17:50	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	795829	08/30/23 10:02	PG	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 680-239627-1

Client Sample ID: MCI-LF3-EB-11

Lab Sample ID: 680-239627-5

Date Collected: 08/29/23 10:40

Matrix: Water

Date Received: 08/29/23 16:28

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	795920	08/31/23 12:27	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	795770	08/30/23 07:36	RR	EET SAV
Total Recoverable	Analysis	6020B		1			796106	08/31/23 17:30	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	795829	08/30/23 10:02	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-239627-6

Date Collected: 08/29/23 11:22

Matrix: Water

Date Received: 08/29/23 16:28

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	795920	08/31/23 12:40	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	795770	08/30/23 07:36	RR	EET SAV
Total Recoverable	Analysis	6020B		1			796106	08/31/23 17:38	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	795829	08/30/23 10:02	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-LF3-FB-10

Lab Sample ID: 680-239627-7

Date Collected: 08/29/23 13:25

Matrix: Water

Date Received: 08/29/23 16:28

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	795920	08/31/23 15:25	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	795758	08/30/23 06:57	RR	EET SAV
Total Recoverable	Analysis	6020B		1			796106	09/01/23 02:38	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	795829	08/30/23 10:02	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-LF3-EB-12

Lab Sample ID: 680-239627-8

Date Collected: 08/29/23 14:15

Matrix: Water

Date Received: 08/29/23 16:28

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	795920	08/31/23 13:05	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	795770	08/30/23 07:36	RR	EET SAV
Total Recoverable	Analysis	6020B		1			796106	08/31/23 18:27	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	795829	08/30/23 10:02	PG	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 680-239627-1

Client Sample ID: MCI-GWC-2

Lab Sample ID: 680-239627-9
Date Collected: 08/29/23 13:45
Matrix: Water
Date Received: 08/29/23 16:28

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	795920	08/31/23 13:18	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	795770	08/30/23 07:36	RR	EET SAV
Total Recoverable	Analysis	6020B		1			796106	08/31/23 17:26	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	795829	08/30/23 10:02	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-GWA-4

Lab Sample ID: 680-239629-1
Date Collected: 08/28/23 17:16
Matrix: Water
Date Received: 08/29/23 16:28

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	795920	08/31/23 13:31	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	795758	08/30/23 06:57	RR	EET SAV
Total Recoverable	Analysis	6020B		1			796106	09/01/23 01:12	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	795829	08/30/23 10:02	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-239629-2
Date Collected: 08/29/23 11:03
Matrix: Water
Date Received: 08/29/23 16:28

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	795920	08/31/23 14:09	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	795758	08/30/23 06:57	RR	EET SAV
Total Recoverable	Analysis	6020B		1			796106	09/01/23 02:22	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	795829	08/30/23 10:02	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-LF3-FD-05

Lab Sample ID: 680-239629-3
Date Collected: 08/29/23 00:00
Matrix: Water
Date Received: 08/29/23 16:28

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	795920	08/31/23 14:47	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	795758	08/30/23 06:57	RR	EET SAV
Total Recoverable	Analysis	6020B		1			796106	09/01/23 02:34	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	795829	08/30/23 10:02	PG	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 680-239627-1

Client Sample ID: MCI-GWC-1A
Date Collected: 08/29/23 12:18
Date Received: 08/29/23 16:28

Lab Sample ID: 680-239629-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	795920	08/31/23 14:59	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	795758	08/30/23 06:57	RR	EET SAV
Total Recoverable	Analysis	6020B		1			796106	09/01/23 02:30	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	795829	08/30/23 10:02	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-LF3-FB-09
Date Collected: 08/29/23 12:30
Date Received: 08/29/23 16:28

Lab Sample ID: 680-239629-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	795920	08/31/23 15:12	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	795758	08/30/23 06:57	RR	EET SAV
Total Recoverable	Analysis	6020B		1			796106	09/01/23 01:21	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	795829	08/30/23 10:02	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-LF3-GWC-4A
Date Collected: 08/29/23 13:25
Date Received: 08/29/23 16:28

Lab Sample ID: 680-239629-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	795920	08/31/23 12:53	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	795770	08/30/23 07:36	RR	EET SAV
Total Recoverable	Analysis	6020B		1			796106	08/31/23 17:34	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	795829	08/30/23 10:02	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-LF3-FD-06
Date Collected: 08/29/23 00:00
Date Received: 08/29/23 16:28

Lab Sample ID: 680-239629-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	795920	08/31/23 15:38	T1C	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	795758	08/30/23 06:57	RR	EET SAV
Total Recoverable	Analysis	6020B		1			796106	09/01/23 01:17	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	796501	09/05/23 11:59	PG	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 680-239627-1

Laboratory References:

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

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-239627-1
Project/Site: Plant McIntosh Landfill 3

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

Method Summary

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

Job ID: 680-239627-1

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Jordan Bonzafal ACC	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page:
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027732			
Email: SCS Contacts / ACC Contacts	PO #:			
Project Name: Plant McIntosh Landfill 3	Project #:			
Site: Georgia	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Task_Code: MCI-CCR-ASSMT-2023S2

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)	APP III Metals: B,Ca	Cl, F, SO_4 & TDS (EPA 300.0 & SM 2540C)	Custom State 8 Permit Metals (EPA 6020): Ba,Be,Cr,Co,Cu,Pb,V,Zn	Total Number of containers
			Preservation Code:				D	I	D	
MCI- GWA-7A	08/28/23	1645	G	WG	N	N	✓	✓	✓	3
MCI- GWA-1B	08/28/23	1835	G	WG	N	N	✓	✓	✓	3
MCI- GWA-2B	08/29/23	0930	G	WG	N	N	✓	✓	✓	3
MCI- GWA-3A	08/29/23	1025	G	WG	N	N	✓	✓	✓	3
MCI- LF3-EB-11	08/29/23	1040	G	WQ	N	N	✓	✓	✓	3
MCI- GWC-6A	08/29/23	1122	G	WG	N	N	✓	✓	✓	3
MCI- LF3-FB-10	08/29/23	1325	G	WQ	N	N	✓	✓	✓	3
MCI- LF3-EB-12	08/29/23	1415	G	WQ	N	N	✓	✓	✓	3
MCI- GWC-2	08/29/23	1345	G	WG	N	N	✓	✓	✓	3
MCI-			G			N				
MCI-			G			N				

680-239627 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if sa
☐ Return To Client ☒ Disposal By La

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: State Per lead, vanadium, zinc

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/29/23 1628	ACC	[signature]		
				8/29/23 1628	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.0/1.1 0.9/1.0

Ver: 8/8/2019

9/18/2023 (Rev. 1)

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Hunter Auld ACC	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page:
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027732			
Email: SCS Contacts / ACC Contacts	PO #:			
Project Name: Plant McIntosh Landfill 3	Project #:			
Site: Georgia	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Task_Code: MCI-CCR-ASSMT-2023S2

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)	APP III Metals: B,Ca	Cl, F, SO4, & TDS (EPA 300.0 & SM 2540C)	Custom State 8 Permit Metals (EPA 6020): Ba,Be,Cr,Co,Cu,Pb,V,Zn	Total Number of containers
			Preservation Code:				D	I	D	
MCI- GWA-4	08/28/23	1716	G	WG		N	✓	✓	✓	3
MCI- GWC-5A	08/29/23	1103	G	WG		N	✓	✓	✓	3
MCI- LF3-FD-05	08/29/23	—	G	WG		N	✓	✓	✓	3
MCI- GWC-1A	08/29/23	1218	G	WG		N	✓	✓	✓	3
MCI- LF3-FB-09	08/29/23	1230	G	WQ		N	✓	✓	✓	3
MCI- LF3-GWC-4A	08/29/23	1325	G	WG		N	✓	✓	✓	3
MCI- LF3-FD-06	08/29/23	—	G	WQ		N	✓	✓	✓	3
MCI-			G			N				
MCI-			G			N				
MCI-			G			N				
MCI-			G			N				

680-239629 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed
☐ Return To Client ☒ Disposal By

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: State Permit Metals: barium, beryllium, chromium, cobalt, copper, lead, vanadium, zinc

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		08/29/23 1420	ACC		08/29/23 1420	ACC
2		8/29/23 1628	ACC		8/29/23 1628	
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.0/1.1 0.9/1.0

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-239627-1

Login Number: 239627
List Number: 1
Creator: Sims, Robert D

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	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-239627-1

Login Number: 239629
List Number: 1
Creator: Sims, Robert D

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	

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/11/2023 4:14:28 PM

JOB DESCRIPTION

Plant McIntosh Landfill 3

JOB NUMBER

680-239882-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

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
9/11/2023 4:14:28 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: 680-239882-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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: 680-239882-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-239882-1	MCI-LF3-GWA-5	Water	09/06/23 09:51	09/06/23 11:40

Case Narrative

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

Job ID: 680-239882-1

Job ID: 680-239882-1

Laboratory: Eurofins Savannah

Narrative

Job Narrative
680-239882-1

Receipt
The sample was received on 9/6/2023 11:40 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C

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

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

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

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

Job ID: 680-239882-1

Client Sample ID: MCI-LF3-GWA-5

Date Collected: 09/06/23 09:51
Date Received: 09/06/23 11:40

Lab Sample ID: 680-239882-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14		1.0	0.20	mg/L			09/08/23 01:30	1
Fluoride	0.15		0.10	0.040	mg/L			09/08/23 01:30	1
Sulfate	14		1.0	0.40	mg/L			09/08/23 01:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.12		0.010	0.00089	mg/L		09/07/23 05:26	09/07/23 11:46	1
Beryllium	0.00041	J	0.0025	0.00020	mg/L		09/07/23 05:26	09/07/23 11:46	1
Boron	0.032	J	0.080	0.022	mg/L		09/07/23 05:26	09/07/23 11:46	1
Calcium	3.7		0.50	0.14	mg/L		09/07/23 05:26	09/07/23 11:46	1
Chromium	0.0016	J	0.0020	0.0012	mg/L		09/07/23 05:26	09/07/23 11:46	1
Cobalt	0.0017	J	0.0025	0.00022	mg/L		09/07/23 05:26	09/07/23 11:46	1
Copper	<0.0011		0.0020	0.0011	mg/L		09/07/23 05:26	09/07/23 11:46	1
Lead	0.00070	J	0.0010	0.00021	mg/L		09/07/23 05:26	09/07/23 11:46	1
Vanadium	0.0015	J	0.0020	0.00063	mg/L		09/07/23 05:26	09/07/23 11:46	1
Zinc	0.0082		0.0050	0.0028	mg/L		09/07/23 05:26	09/07/23 11:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	66		10	10	mg/L			09/07/23 11:37	1

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

Lab Sample ID: MB 680-796839/63
Matrix: Water
Analysis Batch: 796839

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			09/08/23 00:01	1
Fluoride	<0.040		0.10	0.040	mg/L			09/08/23 00:01	1
Sulfate	<0.40		1.0	0.40	mg/L			09/08/23 00:01	1

Lab Sample ID: LCS 680-796839/64
Matrix: Water
Analysis Batch: 796839

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	9.81		mg/L		98	90 - 110
Fluoride	2.00	2.07		mg/L		104	90 - 110
Sulfate	10.0	10.0		mg/L		100	90 - 110

Lab Sample ID: LCSD 680-796839/65
Matrix: Water
Analysis Batch: 796839

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	9.81		mg/L		98	90 - 110	0	15
Fluoride	2.00	2.07		mg/L		103	90 - 110	0	15
Sulfate	10.0	10.0		mg/L		100	90 - 110	0	15

Lab Sample ID: 680-239870-A-1 MS
Matrix: Water
Analysis Batch: 796839

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6.1		10.0	15.9		mg/L		98	80 - 120
Fluoride	0.55		2.00	2.59		mg/L		102	80 - 120
Sulfate	8.0		10.0	18.1		mg/L		101	80 - 120

Lab Sample ID: 680-239870-A-1 MSD
Matrix: Water
Analysis Batch: 796839

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6.1		10.0	16.2		mg/L		101	80 - 120	2	15
Fluoride	0.55		2.00	2.66		mg/L		106	80 - 120	2	15
Sulfate	8.0		10.0	18.4		mg/L		104	80 - 120	2	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-796755/1-A
Matrix: Water
Analysis Batch: 796913

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 796755

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		09/07/23 05:26	09/07/23 11:18	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		09/07/23 05:26	09/07/23 11:18	1
Boron	<0.022		0.080	0.022	mg/L		09/07/23 05:26	09/07/23 11:18	1

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

Lab Sample ID: MB 680-796755/1-A
Matrix: Water
Analysis Batch: 796913

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 796755

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.14		0.50	0.14	mg/L		09/07/23 05:26	09/07/23 11:18	1
Chromium	<0.0012		0.0020	0.0012	mg/L		09/07/23 05:26	09/07/23 11:18	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		09/07/23 05:26	09/07/23 11:18	1
Copper	<0.0011		0.0020	0.0011	mg/L		09/07/23 05:26	09/07/23 11:18	1
Lead	<0.00021		0.0010	0.00021	mg/L		09/07/23 05:26	09/07/23 11:18	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		09/07/23 05:26	09/07/23 11:18	1
Zinc	<0.0028		0.0050	0.0028	mg/L		09/07/23 05:26	09/07/23 11:18	1

Lab Sample ID: LCS 680-796755/2-A
Matrix: Water
Analysis Batch: 796913

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 796755

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.0980		mg/L		98	80 - 120
Beryllium	0.0500	0.0523		mg/L		105	80 - 120
Boron	0.200	0.205		mg/L		102	80 - 120
Calcium	5.00	5.48		mg/L		110	80 - 120
Chromium	0.100	0.108		mg/L		108	80 - 120
Cobalt	0.0500	0.0541		mg/L		108	80 - 120
Copper	0.100	0.104		mg/L		104	80 - 120
Lead	0.500	0.497		mg/L		99	80 - 120
Vanadium	0.100	0.105		mg/L		105	80 - 120
Zinc	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: 680-239867-C-3-E MS
Matrix: Water
Analysis Batch: 796913

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 796755

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.47		0.100	0.595	4	mg/L		126	75 - 125
Beryllium	<0.00020		0.0500	0.0547		mg/L		109	75 - 125
Boron	0.046	J	0.200	0.256		mg/L		105	75 - 125
Calcium	110		5.00	113	4	mg/L		152	75 - 125
Chromium	<0.0012		0.100	0.112		mg/L		112	75 - 125
Cobalt	<0.00022		0.0500	0.0554		mg/L		111	75 - 125
Copper	<0.0011		0.100	0.108		mg/L		108	75 - 125
Lead	<0.00021		0.500	0.531		mg/L		106	75 - 125
Vanadium	0.0013	J	0.100	0.110		mg/L		108	75 - 125
Zinc	<0.0028		0.100	0.107		mg/L		107	75 - 125

Lab Sample ID: 680-239867-C-3-F MSD
Matrix: Water
Analysis Batch: 796913

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 796755

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.47		0.100	0.603	4	mg/L		134	75 - 125	1	20
Beryllium	<0.00020		0.0500	0.0540		mg/L		108	75 - 125	1	20
Boron	0.046	J	0.200	0.258		mg/L		106	75 - 125	1	20
Calcium	110		5.00	113	4	mg/L		154	75 - 125	0	20

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

Lab Sample ID: 680-239867-C-3-F MSD
Matrix: Water
Analysis Batch: 796913

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 796755

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	<0.0012		0.100	0.111		mg/L		111	75 - 125	1	20
Cobalt	<0.00022		0.0500	0.0548		mg/L		110	75 - 125	1	20
Copper	<0.0011		0.100	0.109		mg/L		109	75 - 125	1	20
Lead	<0.00021		0.500	0.526		mg/L		105	75 - 125	1	20
Vanadium	0.0013	J	0.100	0.108		mg/L		106	75 - 125	2	20
Zinc	<0.0028		0.100	0.106		mg/L		106	75 - 125	1	20

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

Lab Sample ID: MB 680-796851/1
Matrix: Water
Analysis Batch: 796851

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			09/07/23 11:37	1

Lab Sample ID: LCS 680-796851/2
Matrix: Water
Analysis Batch: 796851

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	2380	2310		mg/L		97	80 - 120

Lab Sample ID: LCSD 680-796851/3
Matrix: Water
Analysis Batch: 796851

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	2380	2360		mg/L		99	80 - 120	2	25

Lab Sample ID: 680-239771-A-1 DU
Matrix: Water
Analysis Batch: 796851

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	3100		3130		mg/L		0.8	5

QC Association Summary

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

Job ID: 680-239882-1

HPLC/IC

Analysis Batch: 796839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239882-1	MCI-LF3-GWA-5	Total/NA	Water	300.0-1993 R2.1	
MB 680-796839/63	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-796839/64	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-796839/65	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-239870-A-1 MS	Matrix Spike	Total/NA	Water	300.0-1993 R2.1	
680-239870-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 796755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239882-1	MCI-LF3-GWA-5	Total Recoverable	Water	3005A	
MB 680-796755/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-796755/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-239867-C-3-E MS	Matrix Spike	Total Recoverable	Water	3005A	
680-239867-C-3-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 796913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239882-1	MCI-LF3-GWA-5	Total Recoverable	Water	6020B	796755
MB 680-796755/1-A	Method Blank	Total Recoverable	Water	6020B	796755
LCS 680-796755/2-A	Lab Control Sample	Total Recoverable	Water	6020B	796755
680-239867-C-3-E MS	Matrix Spike	Total Recoverable	Water	6020B	796755
680-239867-C-3-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	796755

General Chemistry

Analysis Batch: 796851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-239882-1	MCI-LF3-GWA-5	Total/NA	Water	2540C-2011	
MB 680-796851/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-796851/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-796851/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-239771-A-1 DU	Duplicate	Total/NA	Water	2540C-2011	

Lab Chronicle

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

Job ID: 680-239882-1

Client Sample ID: MCI-LF3-GWA-5

Date Collected: 09/06/23 09:51
Date Received: 09/06/23 11:40

Lab Sample ID: 680-239882-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0-1993 R2.1		1	5 mL	5 mL	796839	09/08/23 01:30	OK	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	796755	09/07/23 05:26	RR	EET SAV
Total Recoverable	Analysis	6020B		1			796913	09/07/23 11:46	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	796851	09/07/23 11:37	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
Job ID: 680-239882-1
Project/Site: Plant McIntosh Landfill 3

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

Method Summary

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

Job ID: 680-239882-1

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Hunter Auld, J. Tracy (ACC)	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027732			
Email: SCS Contacts / ACC Contacts	PO #:			
Project Name: Plant McIntosh Landfill 3	Project #:			
Site: Georgia	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Task_Code: MCI-CCR-ASSMT-2023S2

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)	APP III Metals: B,Ca	Cl, F, SO4 & TDS (EPA 300.0 & SM 2540C)	Custom State 8 Permit Metals (EPA 6020): Ba,Be,Cr,Co,Cu,Pb,V,Zn	Total Number of containers
			Preservation Code:				D	I	D	
MCI- LF3-GWA-5	09/06/23	0951	G	WG	N	N	✓	✓	✓	3
MCI-			G			N				
MCI-			G			N				
MCI-			G			N				
MCI-			G			N				
MCI-			G			N				
MCI-			G			N				
MCI-			G			N				
MCI-			G			N				
MCI-			G			N				
MCI-			G			N				

680-239882 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be ... h)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: State Permit Metals: barium, beryllium, chromium, cobalt, copper, lead, vanadium, zinc

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Jackson Tracy	9/6/2023 1140	ACC			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: C. Nunn	Date/Time: 9/6/23 1140	Company EUROFINS

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.6/2.7

Ver: 8/8/2019

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-239882-1

Login Number: 239882

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

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 2023

Georgia Power Company – McIntosh Landfill 3

Quality Control Review of Analytical Data – August 2023

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Eurofins Environment Testing America, Savannah for groundwater samples collected at McIntosh Landfill 3 (LF3) between August 28, 2023 and September 6, 2023. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1 of this Appendix. Work order 680-239627-1 was revised to correct a laboratory mislabeling error.

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 IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)[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 (680-239629-2) and MCI-LF3-GWC-4A (680-239629-6) as described in the qualifications section below.

Accuracy: Laboratory goals for accuracy were met.

Detection Limits: Project goals for detection limits were met. Certain samples were diluted due to the concentration of target or non-target analyte interferences. Dilutions do not require qualifications based on US EPA guidelines. Reporting limits (RLs) of non-detect compounds are elevated proportional to the dilution when undiluted sample results were not provided by the laboratory. The data usability of diluted results was evaluated by the data user in the context of site-wide characterization.

Completeness: There were no rejected analytical results for this event, resulting in a completion of 100%.

Holding Times: Holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

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 (680-239629-2), MCI-LF3-FD-05 (680-239629-3), MCI-LF3-GWC-4A (680-239629-6), and MCI-LF3-FD-06 (680-239629-7) were qualified as estimated (J) for TDS as the relative percent differences (RPDs) exceeded QC criteria (32.3% and 21.0%, respectively, above the limit of 20).

- Certain fluoride results on work order 680-239627-1 were qualified as blank detections (B) due to the analytes being detected in field and/or equipment blank samples, as shown in Table 2.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh LF3 sampled between August 28, 2023 and September 6, 2023 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

[1]US EPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0

[2]US EPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

TABLE 1

Georgia Power Company – McIntosh LF3

Sample Summary Table – August 2023

						Analyses		
SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Metals (6020B)	Anions (300.0)	TDS (SM 2540C)
239627-1	MCI-GWA-7A	08/28/23	680-239627-1	WG		X	X	X
239627-1	MCI-GWA-1B	08/28/23	680-239627-2	WG		X	X	X
239627-1	MCI-GWA-2B	08/29/23	680-239627-3	WG		X	X	X
239627-1	MCI-GWA-3A	08/29/23	680-239627-4	WG		X	X	X
239627-1	MCI-LF3-EB-11	08/29/23	680-239627-5	WQ	EB	X	X	X
239627-1	MCI-GWC-6A	08/29/23	680-239627-6	WG		X	X	X
239627-1	MCI-LF3-FB-10	08/29/23	680-239627-7	WQ	FB	X	X	X
239627-1	MCI-LF3-EB-12	08/29/23	680-239627-8	WQ	EB	X	X	X
239627-1	MCI-GWC-2	08/29/23	680-239627-9	WG		X	X	X
239627-1	MCI-GWA-4	08/28/23	680-239629-1	WG		X	X	X
239627-1	MCI-GWC-5A	08/29/23	680-239629-2	WG		X	X	X
239627-1	MCI-LF3-FD-05	08/29/23	680-239629-3	WG	FD (MCI-GWC-5A)	X	X	X
239627-1	MCI-GWC-1A	08/29/23	680-239629-4	WG		X	X	X
239627-1	MCI-LF3-FB-09	08/29/23	680-239629-5	WQ	FB	X	X	X
239627-1	MCI-LF3-GWC-4A	08/29/23	680-239629-6	WG		X	X	X
239627-1	MCI-LF3-FD-06	08/29/23	680-239629-7	WG	FD (MCI-LF3-GWC-4A)	X	X	X
239882-1	MCI-LF3-GWA-5	09/06/23	680-239882-1	WG		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

TABLE 2

Georgia Power Company – McIntosh LF3

Qualifier Summary Table – August 2023

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
239627-1	MCI-LF3-EB-11	Fluoride			B	Blank detection
239627-1	MCI-LF3-EB-12	Fluoride			B	Blank detection
239627-1	MCI-LF3-FB-09	Fluoride			B	Blank detection
239627-1	MCI-LF3-FB-10	Fluoride			B	Blank detection
239627-1	MCI-GWC-5A	TDS			J	RPD exceeds field goal
239627-1	MCI-LF3-FD-05	TDS			J	RPD exceeds field goal
239627-1	MCI-LF3-GWC-4A	TDS			J	RPD exceeds field goal
239627-1	MCI-LF3-FD-06	TDS			J	RPD exceeds field goal

Abbreviations:
MDC – Minimum Detectable Concentration
MS/MSD – Matrix Spike / Matrix Spike Duplicate
MDL – Method Detection Limit
RL – Reporting Limit
RPD – Relative Percent Difference
SDG – Sample Delivery Group
TDS – Total Dissolved Solids

Qualifiers:
B – Field or Equipment Blank Detection
J – Estimated Result
ND – Non-Detect Result

Low-Flow Test Report:

Test Date / Time: 8/28/2023 5:15:05 PM
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: 22.6 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 20 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 3 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sunny, sample time-1835

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
8/28/2023 5:15 PM	00:00	5.42 pH	28.39 °C	0.56 µS/cm	7.42 mg/L	0.47 NTU	127.0 mV	22.60 ft	250.00 ml/min
8/28/2023 5:20 PM	05:00	5.39 pH	23.27 °C	29.38 µS/cm	5.55 mg/L	0.51 NTU	96.7 mV	22.80 ft	250.00 ml/min
8/28/2023 5:25 PM	10:00	5.41 pH	22.67 °C	29.47 µS/cm	5.52 mg/L	0.35 NTU	94.9 mV	22.80 ft	250.00 ml/min
8/28/2023 5:30 PM	15:00	5.39 pH	22.67 °C	29.47 µS/cm	5.52 mg/L	0.37 NTU	94.8 mV	22.80 ft	250.00 ml/min
8/28/2023 5:35 PM	20:00	5.33 pH	22.67 °C	29.31 µS/cm	4.87 mg/L	0.33 NTU	93.6 mV	22.80 ft	250.00 ml/min
8/28/2023 5:40 PM	25:00	5.28 pH	22.58 °C	28.97 µS/cm	3.38 mg/L	0.46 NTU	92.2 mV	22.80 ft	250.00 ml/min
8/28/2023 5:45 PM	30:00	5.20 pH	22.49 °C	28.92 µS/cm	2.42 mg/L	0.45 NTU	93.8 mV	22.80 ft	250.00 ml/min
8/28/2023 5:50 PM	35:00	5.17 pH	22.49 °C	29.08 µS/cm	1.91 mg/L	0.34 NTU	94.8 mV	22.80 ft	250.00 ml/min
8/28/2023 5:55 PM	40:00	5.19 pH	22.54 °C	29.37 µS/cm	1.68 mg/L	0.38 NTU	94.3 mV	22.80 ft	250.00 ml/min
8/28/2023 6:00 PM	45:00	5.27 pH	22.49 °C	30.98 µS/cm	1.59 mg/L	0.62 NTU	93.0 mV	22.80 ft	250.00 ml/min
8/28/2023 6:05 PM	50:00	5.28 pH	22.40 °C	33.29 µS/cm	1.41 mg/L	0.57 NTU	93.8 mV	22.80 ft	250.00 ml/min
8/28/2023 6:10 PM	55:00	5.50 pH	23.08 °C	44.24 µS/cm	1.30 mg/L	0.37 NTU	90.7 mV	22.80 ft	250.00 ml/min
8/28/2023 6:15 PM	01:00:00	5.67 pH	23.70 °C	48.10 µS/cm	0.96 mg/L	0.30 NTU	89.1 mV	22.80 ft	250.00 ml/min
8/28/2023 6:20 PM	01:05:00	5.69 pH	23.74 °C	48.72 µS/cm	0.80 mg/L	0.44 NTU	89.6 mV	22.80 ft	250.00 ml/min
8/28/2023 6:25 PM	01:10:00	5.68 pH	23.74 °C	48.96 µS/cm	0.67 mg/L	1.83 NTU	90.9 mV	22.80 ft	250.00 ml/min

8/28/2023 6:30 PM	01:15:00	5.69 pH	23.74 °C	49.44 µS/cm	0.57 mg/L	1.54 NTU	90.2 mV	22.80 ft	250.00 ml/min
8/28/2023 6:35 PM	01:20:00	5.72 pH	23.77 °C	49.88 µS/cm	0.48 mg/L	1.59 NTU	89.0 mV	22.80 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/29/2023 9:00:08 AM
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: 41.73 ft** **Total Depth: 51.73 ft** **Initial Depth to Water: 20.48 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 46 ft** **Estimated Total Volume Pumped: 3.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 125 ml/min** **Final Draw Down: 19 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sunny, sample time-0930

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
8/29/2023 9:00 AM	00:00	6.18 pH	22.83 °C	93.62 µS/cm	0.85 mg/L	0.98 NTU	116.3 mV	20.48 ft	125.00 ml/min
8/29/2023 9:05 AM	05:00	5.88 pH	21.78 °C	94.00 µS/cm	0.26 mg/L	1.01 NTU	103.7 mV	20.80 ft	125.00 ml/min
8/29/2023 9:10 AM	10:00	5.85 pH	21.66 °C	93.79 µS/cm	0.20 mg/L	1.06 NTU	100.6 mV	21.30 ft	125.00 ml/min
8/29/2023 9:15 AM	15:00	5.85 pH	21.77 °C	94.20 µS/cm	0.19 mg/L	0.71 NTU	99.0 mV	21.80 ft	125.00 ml/min
8/29/2023 9:20 AM	20:00	5.85 pH	21.91 °C	94.18 µS/cm	0.19 mg/L	0.80 NTU	98.3 mV	22.10 ft	125.00 ml/min
8/29/2023 9:25 AM	25:00	5.82 pH	21.95 °C	93.82 µS/cm	0.17 mg/L	0.77 NTU	98.2 mV	22.10 ft	125.00 ml/min
8/29/2023 9:30 AM	30:00	5.78 pH	21.86 °C	93.54 µS/cm	0.17 mg/L	0.65 NTU	98.0 mV	22.10 ft	125.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/29/2023 9:55:25 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: 17.35 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 28 ft** **Estimated Total Volume Pumped: 4.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 19 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sunny, sample time-1025

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
8/29/2023 9:55 AM	00:00	5.76 pH	24.65 °C	95.73 µS/cm	2.97 mg/L	6.24 NTU	98.6 mV	17.35 ft	150.00 ml/min
8/29/2023 10:00 AM	05:00	4.73 pH	22.71 °C	67.30 µS/cm	0.61 mg/L	6.70 NTU	99.1 mV	17.80 ft	150.00 ml/min
8/29/2023 10:05 AM	10:00	4.66 pH	22.28 °C	67.57 µS/cm	0.25 mg/L	8.94 NTU	100.5 mV	18.30 ft	150.00 ml/min
8/29/2023 10:10 AM	15:00	4.62 pH	21.98 °C	67.94 µS/cm	0.21 mg/L	7.31 NTU	101.1 mV	18.80 ft	150.00 ml/min
8/29/2023 10:15 AM	20:00	4.53 pH	22.32 °C	67.41 µS/cm	0.20 mg/L	11.00 NTU	101.4 mV	19.00 ft	150.00 ml/min
8/29/2023 10:20 AM	25:00	4.44 pH	21.99 °C	66.55 µS/cm	0.17 mg/L	5.25 NTU	101.9 mV	19.00 ft	150.00 ml/min
8/29/2023 10:25 AM	30:00	4.46 pH	22.22 °C	65.18 µS/cm	0.25 mg/L	3.72 NTU	101.4 mV	19.00 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/28/2023 4:36:20 PM
Project: Plant McIntosh LF3
Operator Name: H. Auld

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: 17.36 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 27 ft** **Estimated Total Volume Pumped: 2.8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 50 ml/min** **Final Draw Down: 40.3 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sampled at 1716. Partly cloudy, 90.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
8/28/2023 4:36 PM	00:00	5.12 pH	26.28 °C	48.94 µS/cm	2.13 mg/L	2.00 NTU	103.3 mV	17.36 ft	100.00 ml/min
8/28/2023 4:41 PM	05:00	4.45 pH	24.83 °C	42.66 µS/cm	0.88 mg/L	2.00 NTU	99.1 mV	18.60 ft	80.00 ml/min
8/28/2023 4:46 PM	10:00	4.34 pH	24.75 °C	42.28 µS/cm	0.80 mg/L	0.60 NTU	91.5 mV	18.90 ft	80.00 ml/min
8/28/2023 4:51 PM	15:00	4.29 pH	24.68 °C	41.34 µS/cm	0.79 mg/L	0.70 NTU	88.3 mV	19.30 ft	80.00 ml/min
8/28/2023 4:56 PM	20:00	4.24 pH	24.78 °C	41.49 µS/cm	0.79 mg/L	0.80 NTU	87.5 mV	19.80 ft	80.00 ml/min
8/28/2023 5:01 PM	25:00	4.16 pH	24.78 °C	41.90 µS/cm	0.79 mg/L	0.70 NTU	90.2 mV	20.10 ft	80.00 ml/min
8/28/2023 5:06 PM	30:00	4.28 pH	24.60 °C	41.46 µS/cm	0.80 mg/L	0.80 NTU	82.4 mV	20.50 ft	80.00 ml/min
8/28/2023 5:11 PM	35:00	4.32 pH	23.32 °C	41.34 µS/cm	0.85 mg/L	0.40 NTU	79.3 mV	20.60 ft	50.00 ml/min
8/28/2023 5:16 PM	40:00	4.34 pH	24.69 °C	41.55 µS/cm	0.88 mg/L	0.50 NTU	78.8 mV	20.70 ft	50.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/29/2023 8:56:56 AM
Project: Plant McIntosh LF3
Operator Name: H. Auld

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: 16.66 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 28 ft** **Estimated Total Volume Pumped: 13.2 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 103.7 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Well purged dry. Partly cloudy , 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
8/29/2023 8:56 AM	00:00	7.41 pH	25.69 °C	46.85 µS/cm	8.19 mg/L	5.00 NTU	257.7 mV	16.66 ft	100.00 ml/min
8/29/2023 9:01 AM	05:00	5.02 pH	24.65 °C	126.96 µS/cm	3.16 mg/L	2.20 NTU	118.0 mV	17.10 ft	100.00 ml/min
8/29/2023 9:06 AM	10:00	4.23 pH	22.98 °C	83.46 µS/cm	1.32 mg/L	1.70 NTU	101.2 mV	17.90 ft	100.00 ml/min
8/29/2023 9:11 AM	15:00	4.20 pH	22.73 °C	82.34 µS/cm	1.26 mg/L	3.40 NTU	94.1 mV	18.40 ft	75.00 ml/min
8/29/2023 9:16 AM	20:00	4.20 pH	22.94 °C	81.50 µS/cm	1.21 mg/L	2.70 NTU	90.9 mV	18.80 ft	75.00 ml/min
8/29/2023 9:21 AM	25:00	4.17 pH	23.34 °C	82.21 µS/cm	1.10 mg/L	2.30 NTU	90.2 mV	19.10 ft	50.00 ml/min
8/29/2023 9:26 AM	30:00	4.19 pH	23.35 °C	83.48 µS/cm	0.98 mg/L	2.50 NTU	89.5 mV	19.40 ft	50.00 ml/min
8/29/2023 9:31 AM	35:00	4.18 pH	21.97 °C	86.79 µS/cm	0.89 mg/L	4.90 NTU	93.0 mV	20.20 ft	150.00 ml/min
8/29/2023 9:36 AM	40:00	4.23 pH	21.69 °C	83.72 µS/cm	1.10 mg/L	30.00 NTU	91.6 mV	21.20 ft	225.00 ml/min
8/29/2023 9:41 AM	45:00	4.33 pH	22.38 °C	59.33 µS/cm	6.06 mg/L	20.00 NTU	99.8 mV	22.10 ft	225.00 ml/min
8/29/2023 9:46 AM	50:00	4.39 pH	23.69 °C	84.12 µS/cm	5.76 mg/L	14.20 NTU	98.4 mV	22.00 ft	225.00 ml/min
8/29/2023 9:51 AM	55:00	4.31 pH	21.60 °C	81.90 µS/cm	0.36 mg/L	9.90 NTU	94.0 mV	22.50 ft	225.00 ml/min
8/29/2023 9:56 AM	01:00:00	4.28 pH	22.57 °C	80.57 µS/cm	0.34 mg/L	9.60 NTU	94.1 mV	22.80 ft	50.00 ml/min
8/29/2023 10:01 AM	01:05:00	4.33 pH	21.44 °C	81.22 µS/cm	0.48 mg/L	29.50 NTU	89.7 mV	23.90 ft	300.00 ml/min
8/29/2023 10:06 AM	01:10:00	4.32 pH	21.30 °C	80.88 µS/cm	0.37 mg/L	31.00 NTU	92.3 mV	24.90 ft	300.00 ml/min

8/29/2023 10:11 AM	01:15:00	4.33 pH	21.29 °C	81.06 µS/cm	0.24 mg/L	30.00 NTU	92.0 mV	25.30 ft	300.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/29/2023 2:03:14 PM
Project: Plant McIntosh LF3
Operator Name: H. Auld

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: 19.9 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 24 ft** **Estimated Total Volume Pumped: 2250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 50 ml/min** **Final Draw Down: 2.6 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
No sample taken. High turbidity, bad weather rolling in.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
8/29/2023 2:03 PM	00:00	5.06 pH	34.31 °C	0.09 µS/cm	6.71 mg/L	50.00 NTU	119.8 mV	19.90 ft	50.00 ml/min
8/29/2023 2:08 PM	05:00	4.42 pH	31.91 °C	77.85 µS/cm	4.50 mg/L	52.00 NTU	101.2 mV	20.40 ft	50.00 ml/min
8/29/2023 2:13 PM	10:00	4.40 pH	26.04 °C	80.51 µS/cm	1.30 mg/L	39.90 NTU	99.8 mV	20.60 ft	50.00 ml/min
8/29/2023 2:18 PM	15:00	4.41 pH	25.38 °C	80.04 µS/cm	1.56 mg/L	32.30 NTU	97.5 mV	20.80 ft	50.00 ml/min
8/29/2023 2:23 PM	20:00	4.42 pH	25.09 °C	79.94 µS/cm	2.18 mg/L	25.40 NTU	96.9 mV	21.00 ft	50.00 ml/min
8/29/2023 2:28 PM	25:00	4.37 pH	25.06 °C	78.87 µS/cm	3.39 mg/L	22.60 NTU	97.7 mV	21.30 ft	50.00 ml/min
8/29/2023 2:33 PM	30:00	4.37 pH	24.74 °C	77.50 µS/cm	4.75 mg/L	18.00 NTU	96.3 mV	21.60 ft	50.00 ml/min
8/29/2023 2:38 PM	35:00	4.33 pH	24.78 °C	76.42 µS/cm	5.79 mg/L	21.60 NTU	97.2 mV	21.90 ft	50.00 ml/min
8/29/2023 2:43 PM	40:00	4.32 pH	24.42 °C	76.28 µS/cm	6.36 mg/L	28.20 NTU	95.4 mV	22.30 ft	50.00 ml/min
8/29/2023 2:48 PM	45:00	4.34 pH	24.90 °C	76.11 µS/cm	6.49 mg/L	28.00 NTU	94.8 mV	22.50 ft	50.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 9/5/2023 4:18:17 PM
Project: Plant McIntosh LF3
Operator Name: H. Auld

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: 16.57 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 101 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Well purged dry. Cloudy 90s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
9/5/2023 4:18 PM	00:00	6.65 pH	28.27 °C	185.47 µS/cm	7.38 mg/L	5.00 NTU	137.7 mV	16.57 ft	200.00 ml/min
9/5/2023 4:23 PM	05:00	4.18 pH	21.89 °C	92.82 µS/cm	5.46 mg/L	13.00 NTU	105.0 mV	18.30 ft	200.00 ml/min
9/5/2023 4:28 PM	10:00	4.22 pH	21.24 °C	92.62 µS/cm	6.45 mg/L	13.50 NTU	94.6 mV	19.90 ft	250.00 ml/min
9/5/2023 4:33 PM	15:00	4.20 pH	21.24 °C	91.24 µS/cm	6.68 mg/L	15.20 NTU	97.1 mV	21.40 ft	250.00 ml/min
9/5/2023 4:38 PM	20:00	4.17 pH	21.33 °C	92.36 µS/cm	6.81 mg/L	116.00 NTU	100.5 mV	22.60 ft	250.00 ml/min
9/5/2023 4:43 PM	25:00	4.21 pH	21.26 °C	92.03 µS/cm	6.47 mg/L	128.00 NTU	102.8 mV	23.80 ft	250.00 ml/min
9/5/2023 4:48 PM	30:00	4.25 pH	21.24 °C	85.49 µS/cm	5.37 mg/L	140.00 NTU	109.8 mV	25.00 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/6/2023 9:31:50 AM
Project: Plant McIntosh LF3
Operator Name: H. Auld

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: 16.58 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 24 ft** **Estimated Total Volume Pumped: 1 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 50 ml/min** **Final Draw Down: 25.4 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sampled at 0951. Partly cloudy 70s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
9/6/2023 9:31 AM	00:00	4.99 pH	24.56 °C	94.52 µS/cm	7.95 mg/L	23.00 NTU	127.9 mV	16.58 ft	50.00 ml/min
9/6/2023 9:36 AM	05:00	4.29 pH	22.35 °C	82.37 µS/cm	4.30 mg/L	12.80 NTU	99.9 mV	17.40 ft	50.00 ml/min
9/6/2023 9:41 AM	10:00	4.31 pH	21.76 °C	82.87 µS/cm	3.83 mg/L	10.20 NTU	97.7 mV	17.80 ft	50.00 ml/min
9/6/2023 9:46 AM	15:00	4.29 pH	21.64 °C	82.45 µS/cm	4.37 mg/L	10.60 NTU	98.3 mV	18.40 ft	50.00 ml/min
9/6/2023 9:51 AM	20:00	4.32 pH	21.70 °C	82.18 µS/cm	5.25 mg/L	9.80 NTU	97.6 mV	18.70 ft	50.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/28/2023 4:15:05 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: 23.94 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 41 ft** **Estimated Total Volume Pumped: 3.9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 130 ml/min** **Final Draw Down: 11 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sunny, sample time- 1645

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
8/28/2023 4:15 PM	00:00	5.82 pH	29.10 °C	178.89 µS/cm	5.69 mg/L	2.00 NTU	129.7 mV	23.94 ft	130.00 ml/min
8/28/2023 4:20 PM	05:00	5.01 pH	23.66 °C	112.31 µS/cm	0.45 mg/L	2.25 NTU	104.1 mV	24.60 ft	130.00 ml/min
8/28/2023 4:25 PM	10:00	4.98 pH	23.15 °C	111.66 µS/cm	0.30 mg/L	1.78 NTU	101.4 mV	24.80 ft	130.00 ml/min
8/28/2023 4:30 PM	15:00	4.97 pH	22.89 °C	111.75 µS/cm	0.26 mg/L	1.52 NTU	100.0 mV	24.80 ft	130.00 ml/min
8/28/2023 4:35 PM	20:00	4.93 pH	22.98 °C	111.43 µS/cm	0.22 mg/L	2.94 NTU	100.8 mV	24.80 ft	130.00 ml/min
8/28/2023 4:40 PM	25:00	4.91 pH	22.98 °C	111.14 µS/cm	0.21 mg/L	3.27 NTU	101.1 mV	24.80 ft	130.00 ml/min
8/28/2023 4:45 PM	30:00	4.91 pH	22.84 °C	111.44 µS/cm	0.20 mg/L	1.65 NTU	100.7 mV	24.80 ft	130.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/29/2023 11:53:08 AM
Project: Plant McIntosh LF3
Operator Name: H. Auld

Location Name: GWC-1A **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.3 ft** **Total Depth: 47.37 ft** **Initial Depth to Water: 22.97 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 42.5 ft** **Estimated Total Volume Pumped: 3.8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 7.6 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sampled at 1218. Sunny 80s. FB-09 here at 1230.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
8/29/2023 11:53 AM	00:00	4.19 pH	28.69 °C	68.78 µS/cm	3.04 mg/L	5.00 NTU	100.6 mV	22.97 ft	150.00 ml/min
8/29/2023 11:58 AM	05:00	4.21 pH	23.90 °C	72.20 µS/cm	0.56 mg/L	1.00 NTU	96.7 mV	23.50 ft	150.00 ml/min
8/29/2023 12:03 PM	10:00	4.23 pH	23.21 °C	72.46 µS/cm	0.45 mg/L	2.10 NTU	94.5 mV	23.50 ft	150.00 ml/min
8/29/2023 12:08 PM	15:00	4.25 pH	23.08 °C	72.43 µS/cm	0.40 mg/L	2.50 NTU	93.7 mV	23.60 ft	150.00 ml/min
8/29/2023 12:13 PM	20:00	4.25 pH	23.07 °C	71.99 µS/cm	0.38 mg/L	1.90 NTU	92.7 mV	23.60 ft	150.00 ml/min
8/29/2023 12:18 PM	25:00	4.25 pH	22.80 °C	72.41 µS/cm	0.36 mg/L	2.10 NTU	92.7 mV	23.60 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/29/2023 1:15:10 PM
Project: Plant McIntosh LF3
Operator Name: J. Berisford

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: 21.51 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 31 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 2 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sunny, sample time-1345, FB-10 here at 1325

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
8/29/2023 1:15 PM	00:00	5.95 pH	33.33 °C	0.30 µS/cm	6.69 mg/L	1.68 NTU	144.3 mV	21.51 ft	200.00 ml/min
8/29/2023 1:20 PM	05:00	4.73 pH	24.12 °C	28.96 µS/cm	0.52 mg/L	1.51 NTU	107.5 mV	21.60 ft	200.00 ml/min
8/29/2023 1:25 PM	10:00	4.70 pH	23.47 °C	29.02 µS/cm	0.39 mg/L	1.33 NTU	106.8 mV	21.70 ft	200.00 ml/min
8/29/2023 1:30 PM	15:00	4.68 pH	23.60 °C	29.20 µS/cm	0.29 mg/L	0.95 NTU	106.5 mV	21.70 ft	200.00 ml/min
8/29/2023 1:35 PM	20:00	4.66 pH	23.75 °C	29.14 µS/cm	0.26 mg/L	0.99 NTU	107.2 mV	21.70 ft	200.00 ml/min
8/29/2023 1:40 PM	25:00	4.64 pH	23.61 °C	29.24 µS/cm	0.22 mg/L	0.84 NTU	108.5 mV	21.70 ft	200.00 ml/min
8/29/2023 1:45 PM	30:00	4.63 pH	23.35 °C	29.20 µS/cm	0.20 mg/L	0.80 NTU	109.3 mV	21.70 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/29/2023 12:55:24 PM
Project: Plant McIntosh LF3
Operator Name: H. Auld

Location Name: GWC-4A **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 26.9 ft** **Total Depth: 36.96 ft** **Initial Depth to Water: 23.35 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 32 ft** **Estimated Total Volume Pumped: 4.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 7.8 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sampled at 1325. Cloudy 80s. FD-06 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
8/29/2023 12:55 PM	00:00	5.19 pH	34.26 °C	0.26 µS/cm	7.04 mg/L	5.00 NTU	118.8 mV	23.35 ft	150.00 ml/min
8/29/2023 1:00 PM	05:00	4.29 pH	27.34 °C	22.37 µS/cm	1.24 mg/L	4.40 NTU	85.3 mV	23.80 ft	150.00 ml/min
8/29/2023 1:05 PM	10:00	4.32 pH	26.44 °C	22.67 µS/cm	1.09 mg/L	3.10 NTU	81.7 mV	23.90 ft	150.00 ml/min
8/29/2023 1:10 PM	15:00	4.37 pH	25.50 °C	22.31 µS/cm	0.85 mg/L	2.40 NTU	78.0 mV	23.90 ft	150.00 ml/min
8/29/2023 1:15 PM	20:00	4.35 pH	26.03 °C	22.29 µS/cm	0.69 mg/L	1.90 NTU	77.6 mV	23.90 ft	150.00 ml/min
8/29/2023 1:20 PM	25:00	4.35 pH	24.94 °C	22.23 µS/cm	0.59 mg/L	1.70 NTU	77.8 mV	24.00 ft	150.00 ml/min
8/29/2023 1:25 PM	30:00	4.39 pH	24.42 °C	22.11 µS/cm	0.52 mg/L	1.30 NTU	76.3 mV	24.00 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/29/2023 10:38:00 AM
Project: Plant McIntosh LF3
Operator Name: H. Auld

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: 24.71 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 37.5 ft** **Estimated Total Volume Pumped: 3.8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 3.5 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965678**

Test Notes:
Sampled at 1103. Partly cloudy 80s. FD-05 here.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 5	+/- 300	+/- 0.3	
8/29/2023 10:38 AM	00:00	4.80 pH	25.23 °C	0.26 µS/cm	7.81 mg/L	5.00 NTU	123.0 mV	24.71 ft	150.00 ml/min
8/29/2023 10:43 AM	05:00	4.64 pH	25.23 °C	30.52 µS/cm	2.74 mg/L	3.50 NTU	90.6 mV	24.90 ft	150.00 ml/min
8/29/2023 10:48 AM	10:00	4.61 pH	23.92 °C	30.73 µS/cm	0.58 mg/L	2.50 NTU	91.6 mV	24.90 ft	150.00 ml/min
8/29/2023 10:53 AM	15:00	4.65 pH	23.43 °C	30.49 µS/cm	0.41 mg/L	1.90 NTU	92.3 mV	24.90 ft	150.00 ml/min
8/29/2023 10:58 AM	20:00	4.70 pH	23.29 °C	30.71 µS/cm	0.35 mg/L	2.30 NTU	89.5 mV	25.00 ft	150.00 ml/min
8/29/2023 11:03 AM	25:24	4.60 pH	23.34 °C	30.59 µS/cm	0.30 mg/L	1.90 NTU	94.1 mV	25.00 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/29/2023 10:51:54 AM
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: 24.69 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 9.7 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sunny, sample time-1122

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 2	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
8/29/2023 10:51 AM	00:00	5.04 pH	24.24 °C	38.75 µS/cm	1.78 mg/L	1.55 NTU	100.8 mV	24.69 ft	200.00 ml/min
8/29/2023 10:56 AM	05:00	5.03 pH	21.84 °C	40.23 µS/cm	0.27 mg/L	1.39 NTU	99.2 mV	25.30 ft	200.00 ml/min
8/29/2023 11:01 AM	10:00	5.04 pH	21.66 °C	40.06 µS/cm	0.21 mg/L	1.25 NTU	98.3 mV	25.40 ft	200.00 ml/min
8/29/2023 11:06 AM	15:00	5.02 pH	21.61 °C	39.68 µS/cm	0.19 mg/L	1.72 NTU	98.4 mV	25.50 ft	200.00 ml/min
8/29/2023 11:11 AM	20:00	5.00 pH	21.82 °C	39.31 µS/cm	0.18 mg/L	0.69 NTU	98.7 mV	25.50 ft	200.00 ml/min
8/29/2023 11:16 AM	25:00	4.99 pH	22.06 °C	39.17 µS/cm	0.17 mg/L	0.99 NTU	99.3 mV	25.50 ft	200.00 ml/min
8/29/2023 11:21 AM	30:00	4.96 pH	21.75 °C	38.88 µS/cm	0.17 mg/L	1.07 NTU	100.8 mV	25.50 ft	200.00 ml/min

Samples

Sample ID:	Description:

ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

Page: 1 of 1

SITE: McIntosh LFB

TECHNICIAN: J. Beaufort

WATER LEVEL: Solinst

WATER LEVEL S/N: 267304

INSTRUMENT S/N: 965658

INSTRUMENT TYPE: AquaTroll

CAL. SOLUTION/S:	ID: pH 4	LOT #: 366916	EXP. DATE: 3/25
Manufact. Drift range	ID: pH 7	LOT #: 266642	EXP. DATE: 7/24
pH must be less that .10	ID: pH 10	LOT #: 261903	EXP. DATE: 8/24
(6.90-7.10 range)	ID: Conductivity	LOT #: 266642	EXP. DATE: 9/23
Conductivity must be within1.0%	ID: ORP	LOT #: 266022	EXP. DATE: 9/23
(1399 - 1427 range)			

Calibration Date: 8/28/23 Time: 1548

RDO: 100% sat. = 86.9

PH: 4.00 = 3.74 7.00 = 6.94 10.00 = 10.18

CONDUCTIVITY: 1413 = 1500

ORP (mV) 240 = 221.9

Drift Check Date: 1850 Time: 8/28/23

pH 7.00 = 7.04 SC 1413 = 1472 ORP 240 = 221

Drift Check Date: / Time: /

pH 7.00 = / SC 1413 = / ORP 240 = /

Calibration Date: 8/29/23 Time: 0841

RDO: 100% sat. = 105.9

PH: 4.00 = 4.11 7.00 = 7.08 10.00 = 10.04

CONDUCTIVITY: 1413 = 1497

ORP (mV) 240 = 224.3

Drift Check Date: 8/29/23 Time: 1134

pH 7.00 = 7.03 SC 1413 = 1476 ORP 240 = 227

Drift Check Date: 8/29/23 Time: 1405

pH 7.00 = 7.05 SC 1413 = 1457 ORP 240 = 231

Calibration Date: _____ Time: _____

RDO: 100% sat. =

PH: 4.00 = 7.00 = 10.00 =

CONDUCTIVITY: 1413 =

ORP (mV) 240 =

Drift Check Date: _____ Time: _____

pH 7.00 = SC 1413 = ORP 240 =

Drift Check Date: _____ Time: _____

pH 7.00 = SC 1413 = ORP 240 =

ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

SITE: Methan LF 3

TECHNICIAN: J. Bostwick

INSTRUMENT S/N: 17120C063767

INSTRUMENT TYPE: HACH 2100Q

CAL. SOLUTION:

0 NTU - LOT #	N/A	EXP. DATE:	DI H2O
10 NTU - LOT #	43139	EXP. DATE:	8/24
20 NTU - LOT #	43139	EXP. DATE:	8/24

Recal if spot check is out of range

Calibration Date: 8/28/23 **Time:** 1548

Calibation Solution	Instrument Reading		Spot Check/s		Midday Calibration Time: Cal Solution	Reading	
			Time: 1350				
0.0	0.31	NTU	10.0 = 9.81	NTU	0.0		NTU
10.0	10.0	NTU	Time:	NTU	10.0		NTU
20.0	21.4	NTU	10.0 =		20.0		NTU

Calibration Date: 8/29/23 **Time:** 0841

Calibation Solution	Instrument Reading		Spot Check/s		Midday Calibration Time: Cal Solution	Reading	
			Time: 1134				
0.0	0127	NTU	10.0 = 9.94		0.0		NTU
10.0	10.1	NTU	Time: 1405	NTU	10.0		NTU
20.0	20.2	NTU	10.0 = 10.1		20.0		NTU

Calibration Date: **Time:**

Calibation Solution	Instrument Reading		Spot Check/s		Midday Calibration Time: Cal Solution	Reading	
			Time:				
0.0		NTU	10.0 =		0.0		NTU
10.0		NTU	Time:	NTU	10.0		NTU
20.0		NTU	10.0 =		20.0		NTU

Calibration Date: **Time:**

Calibation Solution	Instrument Reading		Spot Check/s		Midday Calibration Time: Cal Solution	Reading	
			Time:				
0.0		NTU	10.0 =		0.0		NTU
10.0		NTU	Time:	NTU	10.0		NTU
20.0		NTU	10.0 =		20.0		NTU

Calibration Date: **Time:**

Calibation Solution	Instrument Reading		Spot Check/s		Midday Calibration Time: Cal Solution	Reading	
			Time:				
0.0		NTU	10.0 =		0.0		NTU
10.0		NTU	Time:	NTU	10.0		NTU
20.0		NTU	10.0 =		20.0		NTU

Calibration Date: **Time:**

Calibation Solution	Instrument Reading		Spot Check/s		Midday Calibration Time: Cal Solution	Reading	
			Time:				
0.0		NTU	10.0 =		0.0		NTU
10.0		NTU	Time:	NTU	10.0		NTU
20.0		NTU	10.0 =		20.0		NTU

Calibration Date: **Time:**

Calibation Solution	Instrument Reading		Spot Check/s		Midday Calibration Time: Cal Solution	Reading	
			Time:				
0.0		NTU	10.0 =		0.0		NTU
10.0		NTU	Time:	NTU	10.0		NTU
20.0		NTU	10.0 =		20.0		NTU

ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

Page: 1 of 1

SITE: Plant McIntosh LF3

TECHNICIAN: H. Auld

WATER LEVEL: Solinst

WATER LEVEL S/N: 532172

INSTRUMENT S/N: 965678

INSTRUMENT TYPE: AquaTroll

CAL. SOLUTION/S:	ID: pH 4	LOT # : 3GC916	EXP. DATE:	03/25
Manufact. Drift range	ID: pH 7	LOT # : 2GG042	EXP. DATE:	07/24
pH must be less that .10	ID: pH 10	LOT # : 2GG018	EXP. DATE:	07/24
(6.90-7.10 range)	ID: Conductivity	LOT # : 2GI642	EXP. DATE:	09/23
Conductivity must be within1.0%	ID: ORP	LOT # : 2GL022	EXP. DATE:	~~08/23~~ 09/23
(1399 - 1427 range)				

Calibration Date: 8/28/23 Time: 1600

RDO: 100% sat. = 91%

PH: 4.00 = 4.00 7.00 = 6.87 10.00 = 9.99

CONDUCTIVITY: 1413 = 1388

ORP (mV) 240 = 216

Drift Check Date: — Time: —

pH 7.00 = — SC 1413= — ORP 240= NA

Drift Check Date: ~~8/29/23~~ Time: ~~0830~~

pH 7.00 = SC 1413= ORP 240= NA

Calibration Date: 8/29/23 Time: 0830

RDO: 100% sat. = 102.3

PH: 4.00 = 4.07 7.00 = 7.09 10.00 = 10.08

CONDUCTIVITY: 1413 = 1515

ORP (mV) 240 = 237

Drift Check Date: 08/29 Time: 1145

pH 7.00 = 7.05 SC 1413= 1400 ORP 240= 238

Drift Check Date: — Time: —

pH 7.00 = — SC 1413= — ORP 240= — NA - Storm

Calibration Date: _____ Time: _____

RDO: 100% sat. =

PH: 4.00 = 7.00 = 10.00 =

CONDUCTIVITY: 1413 =

ORP (mV) 240 =

Drift Check Date: _____ Time: _____

pH 7.00 = SC 1413= ORP 240=

Drift Check Date: _____ Time: _____

pH 7.00 = SC 1413= ORP 240=

ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

Page: 1 of 1

SITE: Plant McIntosh LF3

TECHNICIAN: H. Awad

WATER LEVEL: Solinst

WATER LEVEL S/N: 532172

INSTRUMENT S/N: 965678

INSTRUMENT TYPE: AquaTroll

CAL. SOLUTION/S:	ID: pH 4	LOT #: 3GC916	EXP. DATE: 03/25
Manufact. Drift range	ID: pH 7	LOT #: 2GG042	EXP. DATE: 07/24
pH must be less that .10	ID: pH 10	LOT #: 2GG018	EXP. DATE: 07/24
(6.90-7.10 range)	ID: Conductivity	LOT #: 2GI642	EXP. DATE: 09/23
Conductivity must be within1.0%	ID: ORP	LOT #: 2GL022	EXP. DATE: 09/23
(1399 - 1427 range)			

Calibration Date: 9/5/23 Time: 1530

RDO: 100% sat. = 97.3

PH: 4.00 = 3.92 7.00 = 6.84 10.00 = 9.88

CONDUCTIVITY: 1413 = 1452

ORP (mV) 240 = 231

Drift Check Date:_____ Time: _____

pH 7.00 = SC 1413= ORP 240= NA

Drift Check Date:_____ Time: _____

pH 7.00 = SC 1413= ORP 240= 1 well

Calibration Date: 9/6/23 Time: 0900

RDO: 100% sat. = 103.1

PH: 4.00 = 4.10 7.00 = 7.10 10.00 = 10.08

CONDUCTIVITY: 1413 = 1451

ORP (mV) 240 = 238.4

Drift Check Date:_____ Time: _____

pH 7.00 = SC 1413= ORP 240= NA

Drift Check Date:_____ Time: _____

pH 7.00 = SC 1413= ORP 240= 1 well

Calibration Date:_____ Time: _____

RDO: 100% sat. =

PH: 4.00 = 7.00 = 10.00 =

CONDUCTIVITY: 1413 =

ORP (mV) 240 =

Drift Check Date:_____ Time: _____

pH 7.00 = SC 1413= ORP 240=

Drift Check Date:_____ Time: _____

pH 7.00 = SC 1413= ORP 240=

ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

SITE: Plant McIntosh LF3

TECHNICIAN: H. Awad

INSTRUMENT S/N: 22080D00083

INSTRUMENT TYPE: Hach 2100Q

CAL. SOLUTION:

0 NTU - LOT #	—	EXP. DATE:	—
10 NTU - LOT #	A3139	EXP. DATE:	08/24
20 NTU - LOT #	A3144	EXP. DATE:	09/24

Recal if spot check is out of range

Calibration Date: 08/28/23 **Time:** 1400

Calibation Solution	Instrument Reading	
0.0	0.3	NTU
10.0	9.7	NTU
20.0	19.6	NTU

Spot Check/s

Time:

10.0 = NA NTU

Time: NTU

10.0 = Next day

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: 08/29/23 **Time:** 0830

Calibation Solution	Instrument Reading	
0.0	0.3	NTU
10.0	9.5	NTU
20.0	19.7	NTU

Spot Check/s

Time: 1230

10.0 = 10.2

Time: NTU

10.0 =

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: **Time:**

Calibation Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Spot Check/s

Time:

10.0 =

Time: NTU

10.0 =

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: **Time:**

Calibation Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Spot Check/s

Time:

10.0 =

Time: NTU

10.0 =

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: **Time:**

Calibation Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Spot Check/s

Time:

10.0 =

Time: NTU

10.0 =

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: **Time:**

Calibation Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Spot Check/s

Time:

10.0 =

Time: NTU

10.0 =

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: **Time:**

Calibation Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Spot Check/s

Time:

10.0 =

Time: NTU

10.0 =

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Hunter Auld
McIntosh LF3

ATLANTIC COAST CONSULTING, INC.

Daily Instrument Calibration Log

Recal If spot check is out of range

Calibration Date: 9-5-23 **Time:** 1600

Calibation Solution	Instrument Reading	
0.0	0.3	NTU
10.0	10.1	NTU
20.0	19.6	NTU

Time:

Midday Spot Check		
10.0 =	NA	NTU

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: 9-6-23 **Time:** 0930

Calibation Solution	Instrument Reading	
0.0	0.3	NTU
10.0	9.7	NTU
20.0	19.5	NTU

Time:

Midday Spot Check		
Spot Check/s		NTU
10.0 =	NA	

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: **Time:**

Calibation Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Time:

10.0 =

Time:

Spot Check/s		NTU
10.0 =		

Time:

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: **Time:**

Calibation Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

10.0 =

Time:

Spot Check/s		NTU
10.0 =		

Time:

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: **Time:**

Calibation Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

10.0 =

Time:

Spot Check/s		NTU
10.0 =		

Time:

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: **Time:**

Calibation Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

10.0 =

Time:

Spot Check/s		NTU
10.0 =		

Time:

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date: **Time:**

Calibation Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

10.0 =

Time:

Spot Check/s		NTU
10.0 =		

Midday Calibration Time:

Cal Solution	Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Instrument S/N: 22080D00083 ; HACH 2100 Q

0 NTU: Fresh DI H_2O

10 NTU: #A3139 Exp. 08/24

20 NTU: #A3144 Exp. 09/24

Well Inspection

Site Name: Plant Mcintosh LF3 Date: 8/28/2023

Permit Number: 051-008D(CCR) Field Conditions: 87 °F

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
GWA-1B	Yes	Yes	No	Yes
GWA-2B	Yes	Yes	No	Yes
GWA-3A	Yes	Yes	No	Yes
GWA-4	Yes	Yes	No	Yes
GWA-5	Yes	Yes	No	Yes
GWA-7A	Yes	Yes	No	Yes
GWC-1A	Yes	Yes	No	Yes
GWC-2	Yes	Yes	No	Yes
GWC-4A	Yes	Yes	No	Yes
GWC-5A	Yes	Yes	No	Yes
GWC-6A	Yes	Yes	No	Yes
PZ-1	Yes	Yes	No	Yes
PZ-2	Yes	Yes	No	Yes
PZ-3	Yes	Yes	No	Yes
PZ-4	Yes	Yes	No	Yes
PZ-5	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Mcintosh LF3 Date: 8/28/2023

Permit Number: 051-008D(CCR) Field Conditions: 87 °F

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
GWA-1B	Yes	Yes	Yes	Yes	Yes
GWA-2B	Yes	Yes	Yes	Yes	Yes
GWA-3A	Yes	Yes	Yes	Yes	Yes
GWA-4	Yes	Yes	Yes	Yes	Yes
GWA-5	Yes	Yes	Yes	Yes	Yes
GWA-7A	Yes	Yes	Yes	Yes	Yes
GWC-1A	Yes	Yes	Yes	Yes	Yes
GWC-2	Yes	Yes	Yes	Yes	Yes
GWC-4A	Yes	Yes	Yes	Yes	Yes
GWC-5A	Yes	Yes	Yes	Yes	Yes
GWC-6A	Yes	Yes	Yes	Yes	Yes
PZ-1	Yes	Yes	Yes	Yes	Yes
PZ-2	Yes	Yes	Yes	Yes	Yes
PZ-3	Yes	Yes	Yes	Yes	Yes
PZ-4	Yes	Yes	Yes	Yes	Yes
PZ-5	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mcintosh LF3

Date: 8/28/2023

Permit Number: 051-008D(CCR)

Field Conditions: 87 °F

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
GWA-1B	Yes	Yes	Yes	Yes	Yes	Yes
GWA-2B	Yes	Yes	Yes	Yes	Yes	Yes
GWA-3A	Yes	Yes	Yes	Yes	Yes	Yes
GWA-4	Yes	Yes	Yes	Yes	Yes	Yes
GWA-5	Yes	Yes	Yes	Yes	Yes	Yes
GWA-7A	Yes	Yes	Yes	Yes	Yes	Yes
GWC-1A	Yes	Yes	Yes	Yes	Yes	Yes
GWC-2	Yes	Yes	Yes	Yes	Yes	Yes
GWC-4A	Yes	Yes	Yes	Yes	Yes	Yes
GWC-5A	Yes	Yes	Yes	Yes	Yes	Yes
GWC-6A	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1	Yes	Yes	Yes	Yes	Yes	Yes
PZ-2	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4	Yes	Yes	Yes	Yes	Yes	Yes
PZ-5	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mcintosh LF3

Date: 8/28/2023

Permit Number: 051-008D(CCR)

Field Conditions: 87 °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	
PZ-2	
PZ-3	
PZ-4	
PZ-5	

Atlantic Coast Consulting, Inc.

APPENDIX A

Laboratory Analytical and Field Sampling Reports
January 2024 Monitoring Event

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/31/2024 10:38:04 AM

JOB DESCRIPTION

Plant McIntosh Landfill #3

JOB NUMBER

680-245853-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

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
1/31/2024 10:38:04 AM

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: 680-245853-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
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: 680-245853-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-245853-1	MCI-LF3-GWA-5	Water	01/23/24 09:52	01/24/24 08:38
680-245853-2	MCI-GWA-4	Water	01/23/24 11:00	01/24/24 08:38
680-245853-3	MCI-GWA-3A	Water	01/23/24 12:10	01/24/24 08:38
680-245853-4	MCI-GWA-2B	Water	01/23/24 13:25	01/24/24 08:38
680-245853-5	MCI-GWC-6A	Water	01/23/24 14:37	01/24/24 08:38
680-245853-6	MCI-LF3-FB-09	Water	01/23/24 14:30	01/24/24 08:38
680-245853-7	MCI-LF3-EB-11	Water	01/23/24 15:20	01/24/24 08:38
680-245853-8	MCI-GWC-1A	Water	01/23/24 15:36	01/24/24 08:38
680-245853-9	MCI-GWC-2	Water	01/23/24 16:35	01/24/24 08:38
680-245853-10	MCI-LF3-FD-06	Water	01/23/24 00:00	01/24/24 08:38
680-245853-11	MCI-GWA-7A	Water	01/23/24 10:35	01/24/24 08:38
680-245853-12	MCI-GWA-1B	Water	01/23/24 11:50	01/24/24 08:38
680-245853-13	MCI-GWC-5A	Water	01/23/24 14:40	01/24/24 08:38
680-245853-14	MCI-LF3-FB-10	Water	01/23/24 15:30	01/24/24 08:38
680-245853-15	MCI-LF3-GWC-4A	Water	01/23/24 15:46	01/24/24 08:38
680-245853-16	MCI-LF3-FD-05	Water	01/23/24 00:00	01/24/24 08:38
680-245853-17	MCI-LF3-EB-12	Water	01/23/24 16:15	01/24/24 08:38

Job ID: 680-245853-1 — Eurofins Savannah

Job Narrative
680-245853-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 1/24/2024 8:38 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.1°C, 0.4°C and 0.6°C

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-819448 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

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

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

Job ID: 680-245853-1

Client Sample ID: MCI-LF3-GWA-5

Lab Sample ID: 680-245853-1

Date Collected: 01/23/24 09:52
Matrix: Water
Date Received: 01/24/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		1.0	0.20	mg/L			01/25/24 12:22	1
Fluoride	0.15	F1	0.10	0.040	mg/L			01/25/24 12:22	1
Sulfate	14		1.0	0.40	mg/L			01/25/24 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.12		0.010	0.00089	mg/L		01/25/24 06:17	01/26/24 16:43	1
Beryllium	0.00035	J	0.0025	0.00020	mg/L		01/25/24 06:17	01/26/24 16:43	1
Boron	0.051	J	0.080	0.022	mg/L		01/25/24 06:17	01/26/24 16:43	1
Calcium	3.2		0.50	0.14	mg/L		01/25/24 06:17	01/26/24 16:43	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/25/24 06:17	01/26/24 16:43	1
Cobalt	0.0018	J	0.0025	0.00022	mg/L		01/25/24 06:17	01/26/24 16:43	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/25/24 06:17	01/26/24 16:43	1
Lead	0.0011		0.0010	0.00021	mg/L		01/25/24 06:17	01/26/24 16:43	1
Vanadium	0.0011	J	0.0020	0.00063	mg/L		01/25/24 06:17	01/26/24 16:43	1
Zinc	0.0077		0.0050	0.0028	mg/L		01/25/24 06:17	01/26/24 16:43	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			01/25/24 15:10	1

Client Sample ID: MCI-GWA-4

Lab Sample ID: 680-245853-2

Date Collected: 01/23/24 11:00
Matrix: Water
Date Received: 01/24/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.1		1.0	0.20	mg/L			01/25/24 12:54	1
Fluoride	0.077	J	0.10	0.040	mg/L			01/25/24 12:54	1
Sulfate	3.3		1.0	0.40	mg/L			01/25/24 12:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.045		0.010	0.00089	mg/L		01/25/24 06:17	01/26/24 16:47	1
Beryllium	0.00021	J	0.0025	0.00020	mg/L		01/25/24 06:17	01/26/24 16:47	1
Boron	0.033	J	0.080	0.022	mg/L		01/25/24 06:17	01/26/24 16:47	1
Calcium	1.2		0.50	0.14	mg/L		01/25/24 06:17	01/26/24 16:47	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/25/24 06:17	01/26/24 16:47	1
Cobalt	0.0010	J	0.0025	0.00022	mg/L		01/25/24 06:17	01/26/24 16:47	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/25/24 06:17	01/26/24 16:47	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/25/24 06:17	01/26/24 16:47	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/25/24 06:17	01/26/24 16:47	1
Zinc	0.0078		0.0050	0.0028	mg/L		01/25/24 06:17	01/26/24 16:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	32		10	10	mg/L			01/25/24 15:10	1

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

Job ID: 680-245853-1

Client Sample ID: MCI-GWA-3A

Lab Sample ID: 680-245853-3

Date Collected: 01/23/24 12:10

Matrix: Water

Date Received: 01/24/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33		1.0	0.20	mg/L			01/25/24 13:05	1
Fluoride	0.049	J	0.10	0.040	mg/L			01/25/24 13:05	1
Sulfate	<0.40		1.0	0.40	mg/L			01/25/24 13:05	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		01/25/24 06:17	01/26/24 16:59	1
Beryllium	0.00081	J	0.0025	0.00020	mg/L		01/25/24 06:17	01/26/24 16:59	1
Boron	0.073	J	0.080	0.022	mg/L		01/25/24 06:17	01/26/24 16:59	1
Calcium	4.6		0.50	0.14	mg/L		01/25/24 06:17	01/26/24 16:59	1
Chromium	0.0016	J	0.0020	0.0012	mg/L		01/25/24 06:17	01/26/24 16:59	1
Cobalt	0.0030		0.0025	0.00022	mg/L		01/25/24 06:17	01/26/24 16:59	1
Copper	0.0012	J	0.0020	0.0011	mg/L		01/25/24 06:17	01/26/24 16:59	1
Lead	0.00031	J	0.0010	0.00021	mg/L		01/25/24 06:17	01/26/24 16:59	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/25/24 06:17	01/26/24 16:59	1
Zinc	0.0091		0.0050	0.0028	mg/L		01/25/24 06:17	01/26/24 16:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	99		10	10	mg/L			01/25/24 15:10	1

Client Sample ID: MCI-GWA-2B

Lab Sample ID: 680-245853-4

Date Collected: 01/23/24 13:25

Matrix: Water

Date Received: 01/24/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.6		1.0	0.20	mg/L			01/25/24 13:16	1
Fluoride	<0.040		0.10	0.040	mg/L			01/25/24 13:16	1
Sulfate	54		1.0	0.40	mg/L			01/25/24 13:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.037		0.010	0.00089	mg/L		01/25/24 06:17	01/26/24 17:03	1
Beryllium	0.0014	J	0.0025	0.00020	mg/L		01/25/24 06:17	01/26/24 17:03	1
Boron	0.50		0.080	0.022	mg/L		01/25/24 06:17	01/26/24 17:03	1
Calcium	12		0.50	0.14	mg/L		01/25/24 06:17	01/26/24 17:03	1
Chromium	0.0015	J	0.0020	0.0012	mg/L		01/25/24 06:17	01/26/24 17:03	1
Cobalt	0.0033		0.0025	0.00022	mg/L		01/25/24 06:17	01/26/24 17:03	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/25/24 06:17	01/26/24 17:03	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/25/24 06:17	01/26/24 17:03	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/25/24 06:17	01/26/24 17:03	1
Zinc	0.010		0.0050	0.0028	mg/L		01/25/24 06:17	01/26/24 17:03	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			01/25/24 15:10	1

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

Job ID: 680-245853-1

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-245853-5

Date Collected: 01/23/24 14:37

Matrix: Water

Date Received: 01/24/24 08:38

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			01/25/24 13:26	1
Fluoride	<0.040		0.10	0.040	mg/L			01/25/24 13:26	1
Sulfate	**3.3**		1.0	0.40	mg/L			01/25/24 13:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.079**		0.010	0.00089	mg/L		01/25/24 06:17	01/26/24 17:07	1
Beryllium	**0.00024**	**J**	0.0025	0.00020	mg/L		01/25/24 06:17	01/26/24 17:07	1
Boron	**0.047**	**J**	0.080	0.022	mg/L		01/25/24 06:17	01/26/24 17:07	1
Calcium	**3.0**		0.50	0.14	mg/L		01/25/24 06:17	01/26/24 17:07	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/25/24 06:17	01/26/24 17:07	1
Cobalt	**0.00095**	**J**	0.0025	0.00022	mg/L		01/25/24 06:17	01/26/24 17:07	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/25/24 06:17	01/26/24 17:07	1
Lead	**0.00023**	**J**	0.0010	0.00021	mg/L		01/25/24 06:17	01/26/24 17:07	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/25/24 06:17	01/26/24 17:07	1
Zinc	**0.0042**	**J**	0.0050	0.0028	mg/L		01/25/24 06:17	01/26/24 17:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**75**		10	10	mg/L			01/25/24 15:10	1

Client Sample ID: MCI-LF3-FB-09

Lab Sample ID: 680-245853-6

Date Collected: 01/23/24 14:30

Matrix: Water

Date Received: 01/24/24 08:38

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			01/25/24 13:37	1
Fluoride	<0.040		0.10	0.040	mg/L			01/25/24 13:37	1
Sulfate	<0.40		1.0	0.40	mg/L			01/25/24 13:37	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		01/25/24 06:17	01/26/24 17:11	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		01/25/24 06:17	01/26/24 17:11	1
Boron	<0.022		0.080	0.022	mg/L		01/25/24 06:17	01/26/24 17:11	1
Calcium	<0.14		0.50	0.14	mg/L		01/25/24 06:17	01/26/24 17:11	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/25/24 06:17	01/26/24 17:11	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		01/25/24 06:17	01/26/24 17:11	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/25/24 06:17	01/26/24 17:11	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/25/24 06:17	01/26/24 17:11	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/25/24 06:17	01/26/24 17:11	1
Zinc	<0.0028		0.0050	0.0028	mg/L		01/25/24 06:17	01/26/24 17:11	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			01/25/24 15:10	1

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

Job ID: 680-245853-1

Client Sample ID: MCI-LF3-EB-11

Lab Sample ID: 680-245853-7

Date Collected: 01/23/24 15:20
Matrix: Water
Date Received: 01/24/24 08:38

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			01/25/24 13:48	1
Fluoride	<0.040		0.10	0.040	mg/L			01/25/24 13:48	1
Sulfate	<0.40		1.0	0.40	mg/L			01/25/24 13:48	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		01/25/24 06:17	01/26/24 17:15	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		01/25/24 06:17	01/26/24 17:15	1
Boron	<0.022		0.080	0.022	mg/L		01/25/24 06:17	01/26/24 17:15	1
Calcium	<0.14		0.50	0.14	mg/L		01/25/24 06:17	01/26/24 17:15	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/25/24 06:17	01/26/24 17:15	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		01/25/24 06:17	01/26/24 17:15	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/25/24 06:17	01/26/24 17:15	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/25/24 06:17	01/26/24 17:15	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/25/24 06:17	01/26/24 17:15	1
Zinc	<0.0028		0.0050	0.0028	mg/L		01/25/24 06:17	01/26/24 17:15	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			01/25/24 15:10	1

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-245853-8

Date Collected: 01/23/24 15:36
Matrix: Water
Date Received: 01/24/24 08:38

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			01/25/24 13:58	1
Fluoride	**0.10**		0.10	0.040	mg/L			01/25/24 13:58	1
Sulfate	<0.40		1.0	0.40	mg/L			01/25/24 13:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.24**		0.010	0.00089	mg/L		01/25/24 06:17	01/26/24 17:19	1
Beryllium	**0.00041**	**J**	0.0025	0.00020	mg/L		01/25/24 06:17	01/26/24 17:19	1
Boron	**0.060**	**J**	0.080	0.022	mg/L		01/25/24 06:17	01/26/24 17:19	1
Calcium	**2.3**		0.50	0.14	mg/L		01/25/24 06:17	01/26/24 17:19	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/25/24 06:17	01/26/24 17:19	1
Cobalt	**0.0042**		0.0025	0.00022	mg/L		01/25/24 06:17	01/26/24 17:19	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/25/24 06:17	01/26/24 17:19	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/25/24 06:17	01/26/24 17:19	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/25/24 06:17	01/26/24 17:19	1
Zinc	**0.018**		0.0050	0.0028	mg/L		01/25/24 06:17	01/26/24 17:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**63**		10	10	mg/L			01/25/24 15:10	1

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

Job ID: 680-245853-1

Client Sample ID: MCI-GWC-2

Lab Sample ID: 680-245853-9

Date Collected: 01/23/24 16:35
Matrix: Water
Date Received: 01/24/24 08:38

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			01/25/24 14:09	1
Fluoride	0.043	J	0.10	0.040	mg/L			01/25/24 14:09	1
Sulfate	3.8		1.0	0.40	mg/L			01/25/24 14:09	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		01/25/24 06:17	01/26/24 17:23	1
Beryllium	0.00027	J	0.0025	0.00020	mg/L		01/25/24 06:17	01/26/24 17:23	1
Boron	0.092		0.080	0.022	mg/L		01/25/24 06:17	01/26/24 17:23	1
Calcium	1.4		0.50	0.14	mg/L		01/25/24 06:17	01/26/24 17:23	1
Chromium	0.0017	J	0.0020	0.0012	mg/L		01/25/24 06:17	01/26/24 17:23	1
Cobalt	0.0014	J	0.0025	0.00022	mg/L		01/25/24 06:17	01/26/24 17:23	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/25/24 06:17	01/26/24 17:23	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/25/24 06:17	01/26/24 17:23	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/25/24 06:17	01/26/24 17:23	1
Zinc	0.0069		0.0050	0.0028	mg/L		01/25/24 06:17	01/26/24 17:23	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			01/25/24 15:10	1

Client Sample ID: MCI-LF3-FD-06

Lab Sample ID: 680-245853-10

Date Collected: 01/23/24 00:00
Matrix: Water
Date Received: 01/24/24 08:38

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			01/25/24 14:20	1
Fluoride	<0.040		0.10	0.040	mg/L			01/25/24 14:20	1
Sulfate	3.4		1.0	0.40	mg/L			01/25/24 14:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.055		0.010	0.00089	mg/L		01/25/24 06:17	01/26/24 17:27	1
Beryllium	0.00032	J	0.0025	0.00020	mg/L		01/25/24 06:17	01/26/24 17:27	1
Boron	0.093		0.080	0.022	mg/L		01/25/24 06:17	01/26/24 17:27	1
Calcium	1.3		0.50	0.14	mg/L		01/25/24 06:17	01/26/24 17:27	1
Chromium	0.0017	J	0.0020	0.0012	mg/L		01/25/24 06:17	01/26/24 17:27	1
Cobalt	0.0012	J	0.0025	0.00022	mg/L		01/25/24 06:17	01/26/24 17:27	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/25/24 06:17	01/26/24 17:27	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/25/24 06:17	01/26/24 17:27	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/25/24 06:17	01/26/24 17:27	1
Zinc	0.0069		0.0050	0.0028	mg/L		01/25/24 06:17	01/26/24 17:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	38		10	10	mg/L			01/25/24 15:10	1

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

Job ID: 680-245853-1

Client Sample ID: MCI-GWA-7A

Lab Sample ID: 680-245853-11

Date Collected: 01/23/24 10:35
Matrix: Water
Date Received: 01/24/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.2		1.0	0.20	mg/L			01/25/24 14:52	1
Fluoride	<0.040		0.10	0.040	mg/L			01/25/24 14:52	1
Sulfate	66		1.0	0.40	mg/L			01/25/24 14:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.041		0.010	0.00089	mg/L		01/25/24 06:17	01/26/24 17:31	1
Beryllium	0.00045	J	0.0025	0.00020	mg/L		01/25/24 06:17	01/26/24 17:31	1
Boron	1.2		0.080	0.022	mg/L		01/25/24 06:17	01/29/24 15:11	1
Calcium	12		0.50	0.14	mg/L		01/25/24 06:17	01/26/24 17:31	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/25/24 06:17	01/26/24 17:31	1
Cobalt	0.0018	J	0.0025	0.00022	mg/L		01/25/24 06:17	01/26/24 17:31	1
Copper	0.0011	J	0.0020	0.0011	mg/L		01/25/24 06:17	01/26/24 17:31	1
Lead	0.00056	J	0.0010	0.00021	mg/L		01/25/24 06:17	01/26/24 17:31	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/25/24 06:17	01/26/24 17:31	1
Zinc	0.0094		0.0050	0.0028	mg/L		01/25/24 06:17	01/26/24 17:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	140		10	10	mg/L			01/25/24 15:10	1

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-245853-12

Date Collected: 01/23/24 11:50
Matrix: Water
Date Received: 01/24/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.3		1.0	0.20	mg/L			01/25/24 15:23	1
Fluoride	0.24		0.10	0.040	mg/L			01/25/24 15:23	1
Sulfate	1.4		1.0	0.40	mg/L			01/25/24 15:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.021		0.010	0.00089	mg/L		01/25/24 06:17	01/26/24 17:36	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		01/25/24 06:17	01/26/24 17:36	1
Boron	0.029	J	0.080	0.022	mg/L		01/25/24 06:17	01/26/24 17:36	1
Calcium	8.3		0.50	0.14	mg/L		01/25/24 06:17	01/26/24 17:36	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/25/24 06:17	01/26/24 17:36	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		01/25/24 06:17	01/26/24 17:36	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/25/24 06:17	01/26/24 17:36	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/25/24 06:17	01/26/24 17:36	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/25/24 06:17	01/26/24 17:36	1
Zinc	0.050		0.0050	0.0028	mg/L		01/25/24 06:17	01/26/24 17:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	100		10	10	mg/L			01/25/24 15:10	1

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

Job ID: 680-245853-1

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-245853-13

Date Collected: 01/23/24 14:40
Matrix: Water
Date Received: 01/24/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.4**		1.0	0.20	mg/L			01/25/24 15:34	1
Fluoride	<0.040		0.10	0.040	mg/L			01/25/24 15:34	1
Sulfate	<0.40		1.0	0.40	mg/L			01/25/24 15:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**0.087**		0.010	0.00089	mg/L		01/25/24 06:17	01/26/24 17:48	1
Beryllium	**0.00033**	**J**	0.0025	0.00020	mg/L		01/25/24 06:17	01/26/24 17:48	1
Boron	<0.022		0.080	0.022	mg/L		01/25/24 06:17	01/26/24 17:48	1
Calcium	**0.96**		0.50	0.14	mg/L		01/25/24 06:17	01/26/24 17:48	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/25/24 06:17	01/26/24 17:48	1
Cobalt	**0.0027**		0.0025	0.00022	mg/L		01/25/24 06:17	01/26/24 17:48	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/25/24 06:17	01/26/24 17:48	1
Lead	**0.00030**	**J**	0.0010	0.00021	mg/L		01/25/24 06:17	01/26/24 17:48	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/25/24 06:17	01/26/24 17:48	1
Zinc	**0.016**		0.0050	0.0028	mg/L		01/25/24 06:17	01/26/24 17:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	**35**		10	10	mg/L			01/25/24 15:10	1

Client Sample ID: MCI-LF3-FB-10

Lab Sample ID: 680-245853-14

Date Collected: 01/23/24 15:30
Matrix: Water
Date Received: 01/24/24 08:38

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			01/25/24 15:45	1
Fluoride	<0.040		0.10	0.040	mg/L			01/25/24 15:45	1
Sulfate	<0.40		1.0	0.40	mg/L			01/25/24 15:45	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		01/25/24 06:17	01/26/24 17:52	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		01/25/24 06:17	01/26/24 17:52	1
Boron	<0.022		0.080	0.022	mg/L		01/25/24 06:17	01/26/24 17:52	1
Calcium	<0.14		0.50	0.14	mg/L		01/25/24 06:17	01/26/24 17:52	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/25/24 06:17	01/26/24 17:52	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		01/25/24 06:17	01/26/24 17:52	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/25/24 06:17	01/26/24 17:52	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/25/24 06:17	01/26/24 17:52	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/25/24 06:17	01/26/24 17:52	1
Zinc	**0.0030**	**J**	0.0050	0.0028	mg/L		01/25/24 06:17	01/26/24 17:52	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			01/25/24 15:10	1

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

Lab Sample ID: 680-245853-15

Date Collected: 01/23/24 15:46

Matrix: Water

Date Received: 01/24/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.3		1.0	0.20	mg/L			01/25/24 15:55	1
Fluoride	<0.040		0.10	0.040	mg/L			01/25/24 15:55	1
Sulfate	0.41	J	1.0	0.40	mg/L			01/25/24 15:55	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		01/25/24 06:17	01/26/24 17:56	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		01/25/24 06:17	01/26/24 17:56	1
Boron	<0.022		0.080	0.022	mg/L		01/25/24 06:17	01/26/24 17:56	1
Calcium	0.30	J	0.50	0.14	mg/L		01/25/24 06:17	01/26/24 17:56	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/25/24 06:17	01/26/24 17:56	1
Cobalt	0.00040	J	0.0025	0.00022	mg/L		01/25/24 06:17	01/26/24 17:56	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/25/24 06:17	01/26/24 17:56	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/25/24 06:17	01/26/24 17:56	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/25/24 06:17	01/26/24 17:56	1
Zinc	0.0041	J	0.0050	0.0028	mg/L		01/25/24 06:17	01/26/24 17:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	25		10	10	mg/L			01/25/24 15:10	1

Client Sample ID: MCI-LF3-FD-05

Lab Sample ID: 680-245853-16

Date Collected: 01/23/24 00:00

Matrix: Water

Date Received: 01/24/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.6		1.0	0.20	mg/L			01/25/24 16:06	1
Fluoride	0.057	J	0.10	0.040	mg/L			01/25/24 16:06	1
Sulfate	0.50	J	1.0	0.40	mg/L			01/25/24 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.081		0.010	0.00089	mg/L		01/25/24 06:17	01/26/24 18:00	1
Beryllium	0.00032	J	0.0025	0.00020	mg/L		01/25/24 06:17	01/26/24 18:00	1
Boron	<0.022		0.080	0.022	mg/L		01/25/24 06:17	01/26/24 18:00	1
Calcium	1.1		0.50	0.14	mg/L		01/25/24 06:17	01/26/24 18:00	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/25/24 06:17	01/26/24 18:00	1
Cobalt	0.0025		0.0025	0.00022	mg/L		01/25/24 06:17	01/26/24 18:00	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/25/24 06:17	01/26/24 18:00	1
Lead	0.00027	J	0.0010	0.00021	mg/L		01/25/24 06:17	01/26/24 18:00	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/25/24 06:17	01/26/24 18:00	1
Zinc	0.017		0.0050	0.0028	mg/L		01/25/24 06:17	01/26/24 18:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	36		10	10	mg/L			01/29/24 11:14	1

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

Job ID: 680-245853-1

Client Sample ID: MCI-LF3-EB-12

Date Collected: 01/23/24 16:15
Date Received: 01/24/24 08:38

Lab Sample ID: 680-245853-17

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.20		1.0	0.20	mg/L			01/25/24 16:17	1
Fluoride	<0.040		0.10	0.040	mg/L			01/25/24 16:17	1
Sulfate	<0.40		1.0	0.40	mg/L			01/25/24 16:17	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		01/25/24 07:12	01/26/24 13:39	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		01/25/24 07:12	01/26/24 13:39	1
Boron	<0.022		0.080	0.022	mg/L		01/25/24 07:12	01/26/24 13:39	1
Calcium	<0.14		0.50	0.14	mg/L		01/25/24 07:12	01/26/24 13:39	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/25/24 07:12	01/26/24 13:39	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		01/25/24 07:12	01/26/24 13:39	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/25/24 07:12	01/26/24 13:39	1
Lead	**0.0010**		0.0010	0.00021	mg/L		01/25/24 07:12	01/26/24 13:39	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/25/24 07:12	01/26/24 13:39	1
Zinc	**0.0031**	**J**	0.0050	0.0028	mg/L		01/25/24 07:12	01/26/24 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			01/29/24 11:14	1

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

Lab Sample ID: MB 680-819448/2
Matrix: Water
Analysis Batch: 819448

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			01/25/24 11:33	1
Fluoride	<0.040		0.10	0.040	mg/L			01/25/24 11:33	1
Sulfate	<0.40		1.0	0.40	mg/L			01/25/24 11:33	1

Lab Sample ID: LCS 680-819448/4
Matrix: Water
Analysis Batch: 819448

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	9.91		mg/L		99	90 - 110		
Fluoride			2.00	2.01		mg/L		100	90 - 110		
Sulfate			10.0	9.86		mg/L		99	90 - 110		

Lab Sample ID: LCSD 680-819448/5
Matrix: Water
Analysis Batch: 819448

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	9.91		mg/L		99	90 - 110	0	15
Fluoride			2.00	2.00		mg/L		100	90 - 110	0	15
Sulfate			10.0	9.87		mg/L		99	90 - 110	0	15

Lab Sample ID: 680-245853-1 MS
Matrix: Water
Analysis Batch: 819448

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	16		10.0	26.5		mg/L		103	80 - 120		
Fluoride	0.15	F1	2.00	3.06	F1	mg/L		146	80 - 120		
Sulfate	14		10.0	25.3		mg/L		108	80 - 120		

Lab Sample ID: 680-245853-1 MSD
Matrix: Water
Analysis Batch: 819448

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	16		10.0	26.5		mg/L		103	80 - 120	0	15
Fluoride	0.15	F1	2.00	3.10	F1	mg/L		147	80 - 120	1	15
Sulfate	14		10.0	25.3		mg/L		108	80 - 120	0	15

Lab Sample ID: 680-245853-11 MS
Matrix: Water
Analysis Batch: 819448

Client Sample ID: MCI-GWA-7A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	7.2		10.0	17.4		mg/L		102	80 - 120		
Fluoride	<0.040		2.00	2.29		mg/L		114	80 - 120		
Sulfate	66		10.0	75.9	4	mg/L		97	80 - 120		

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

Lab Sample ID: 680-245853-11 MSD
Matrix: Water
Analysis Batch: 819448

Client Sample ID: MCI-GWA-7A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7.2		10.0	17.1		mg/L		99	80 - 120	2	15
Fluoride	<0.040		2.00	2.21		mg/L		110	80 - 120	4	15
Sulfate	66		10.0	74.3	4	mg/L		82	80 - 120	2	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-819334/1-A
Matrix: Water
Analysis Batch: 819755

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 819334

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		01/25/24 06:17	01/26/24 16:10	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		01/25/24 06:17	01/26/24 16:10	1
Boron	<0.022		0.080	0.022	mg/L		01/25/24 06:17	01/26/24 16:10	1
Calcium	<0.14		0.50	0.14	mg/L		01/25/24 06:17	01/26/24 16:10	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/25/24 06:17	01/26/24 16:10	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		01/25/24 06:17	01/26/24 16:10	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/25/24 06:17	01/26/24 16:10	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/25/24 06:17	01/26/24 16:10	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/25/24 06:17	01/26/24 16:10	1
Zinc	<0.0028		0.0050	0.0028	mg/L		01/25/24 06:17	01/26/24 16:10	1

Lab Sample ID: LCS 680-819334/2-A
Matrix: Water
Analysis Batch: 819755

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 819334

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.0959		mg/L		96	80 - 120
Beryllium	0.0500	0.0517		mg/L		103	80 - 120
Boron	0.400	0.375		mg/L		94	80 - 120
Calcium	5.00	4.78		mg/L		96	80 - 120
Chromium	0.100	0.103		mg/L		103	80 - 120
Cobalt	0.0500	0.0526		mg/L		105	80 - 120
Copper	0.101	0.110		mg/L		109	80 - 120
Lead	0.500	0.489		mg/L		98	80 - 120
Vanadium	0.100	0.103		mg/L		103	80 - 120
Zinc	0.0505	0.0508		mg/L		101	80 - 120

Lab Sample ID: 680-245850-C-3-B MS
Matrix: Water
Analysis Batch: 819755

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 819334

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.025		0.100	0.129		mg/L		104	75 - 125
Beryllium	<0.00020		0.0500	0.0535		mg/L		107	75 - 125
Boron	6.4		0.400	6.50	4	mg/L		37	75 - 125
Calcium	65		5.00	66.7	4	mg/L		37	75 - 125
Chromium	0.0047		0.100	0.109		mg/L		104	75 - 125
Cobalt	0.024		0.0500	0.0769		mg/L		106	75 - 125

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

Lab Sample ID: 680-245850-C-3-B MS
Matrix: Water
Analysis Batch: 819755

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 819334

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	<0.0011		0.101	0.111		mg/L		110	75 - 125
Lead	0.00033	J	0.500	0.493		mg/L		98	75 - 125
Vanadium	0.021		0.100	0.129		mg/L		109	75 - 125
Zinc	0.020		0.0505	0.0718		mg/L		103	75 - 125

Lab Sample ID: 680-245850-C-3-C MSD
Matrix: Water
Analysis Batch: 819755

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 819334

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.025		0.100	0.128		mg/L		103	75 - 125	1	20
Beryllium	<0.00020		0.0500	0.0551		mg/L		110	75 - 125	3	20
Boron	6.4		0.400	6.80	4	mg/L		111	75 - 125	4	20
Calcium	65		5.00	67.0	4	mg/L		44	75 - 125	0	20
Chromium	0.0047		0.100	0.111		mg/L		106	75 - 125	1	20
Cobalt	0.024		0.0500	0.0780		mg/L		108	75 - 125	1	20
Copper	<0.0011		0.101	0.112		mg/L		111	75 - 125	1	20
Lead	0.00033	J	0.500	0.503		mg/L		101	75 - 125	2	20
Vanadium	0.021		0.100	0.130		mg/L		110	75 - 125	1	20
Zinc	0.020		0.0505	0.0731		mg/L		106	75 - 125	2	20

Lab Sample ID: MB 680-819337/1-A
Matrix: Water
Analysis Batch: 819755

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 819337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.00089		0.010	0.00089	mg/L		01/25/24 07:12	01/26/24 13:14	1
Beryllium	<0.00020		0.0025	0.00020	mg/L		01/25/24 07:12	01/26/24 13:14	1
Boron	<0.022		0.080	0.022	mg/L		01/25/24 07:12	01/26/24 13:14	1
Calcium	<0.14		0.50	0.14	mg/L		01/25/24 07:12	01/26/24 13:14	1
Chromium	<0.0012		0.0020	0.0012	mg/L		01/25/24 07:12	01/26/24 13:14	1
Cobalt	<0.00022		0.0025	0.00022	mg/L		01/25/24 07:12	01/26/24 13:14	1
Copper	<0.0011		0.0020	0.0011	mg/L		01/25/24 07:12	01/26/24 13:14	1
Lead	<0.00021		0.0010	0.00021	mg/L		01/25/24 07:12	01/26/24 13:14	1
Vanadium	<0.00063		0.0020	0.00063	mg/L		01/25/24 07:12	01/26/24 13:14	1
Zinc	<0.0028		0.0050	0.0028	mg/L		01/25/24 07:12	01/26/24 13:14	1

Lab Sample ID: LCS 680-819337/2-A
Matrix: Water
Analysis Batch: 819755

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 819337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.0971		mg/L		97	80 - 120
Beryllium	0.0500	0.0504		mg/L		101	80 - 120
Boron	0.400	0.386		mg/L		97	80 - 120
Calcium	5.00	5.04		mg/L		101	80 - 120
Chromium	0.100	0.104		mg/L		104	80 - 120
Cobalt	0.0500	0.0524		mg/L		105	80 - 120
Copper	0.101	0.110		mg/L		109	80 - 120

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

Lab Sample ID: LCS 680-819337/2-A
Matrix: Water
Analysis Batch: 819755

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 819337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.500	0.476		mg/L		95	80 - 120
Vanadium	0.100	0.101		mg/L		101	80 - 120
Zinc	0.0505	0.0519		mg/L		103	80 - 120

Lab Sample ID: 752-15777-A-1-E MS
Matrix: Water
Analysis Batch: 819755

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 819337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.030		0.100	0.152		mg/L		123	75 - 125
Beryllium	<0.00020		0.0500	0.0540		mg/L		108	75 - 125
Boron	<0.022		0.400	0.362		mg/L		90	75 - 125
Calcium	800	E	5.00	815	E 4	mg/L		307	75 - 125
Chromium	0.013		0.100	0.116		mg/L		102	75 - 125
Cobalt	0.0019	J	0.0500	0.0526		mg/L		101	75 - 125
Copper	0.0098		0.101	0.117		mg/L		106	75 - 125
Lead	0.0020		0.500	0.470		mg/L		94	75 - 125
Vanadium	0.10		0.100	0.219		mg/L		118	75 - 125
Zinc	0.51		0.0505	0.592	4	mg/L		172	75 - 125

Lab Sample ID: 752-15777-A-1-F MSD
Matrix: Water
Analysis Batch: 819755

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 819337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Barium	0.030		0.100	0.155		mg/L		125	75 - 125	1	20
Beryllium	<0.00020		0.0500	0.0596		mg/L		119	75 - 125	10	20
Boron	<0.022		0.400	0.394		mg/L		98	75 - 125	8	20
Calcium	800	E	5.00	808	E 4	mg/L		166	75 - 125	1	20
Chromium	0.013		0.100	0.116		mg/L		103	75 - 125	0	20
Cobalt	0.0019	J	0.0500	0.0523		mg/L		101	75 - 125	1	20
Copper	0.0098		0.101	0.120		mg/L		109	75 - 125	2	20
Lead	0.0020		0.500	0.466		mg/L		93	75 - 125	1	20
Vanadium	0.10		0.100	0.220		mg/L		119	75 - 125	1	20
Zinc	0.51		0.0505	0.589	4	mg/L		165	75 - 125	1	20

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

Lab Sample ID: MB 680-819515/1
Matrix: Water
Analysis Batch: 819515

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			01/25/24 15:10	1

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

Lab Sample ID: LCS 680-819515/2
Matrix: Water
Analysis Batch: 819515

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			2470	2420		mg/L		98	80 - 120		

Lab Sample ID: LCSD 680-819515/3
Matrix: Water
Analysis Batch: 819515

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			2470	2380		mg/L		96	80 - 120	2	25

Lab Sample ID: 680-245846-C-1 DU
Matrix: Water
Analysis Batch: 819515

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	450			452		mg/L				0.9	5

Lab Sample ID: 680-245865-A-5 DU
Matrix: Water
Analysis Batch: 819515

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	260			248		mg/L				5	5

Lab Sample ID: MB 680-819963/1
Matrix: Water
Analysis Batch: 819963

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			01/29/24 11:14	1

Lab Sample ID: LCS 680-819963/2
Matrix: Water
Analysis Batch: 819963

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			2470	2400		mg/L		97	80 - 120		

Lab Sample ID: LCSD 680-819963/3
Matrix: Water
Analysis Batch: 819963

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			2470	2420		mg/L		98	80 - 120	1	25

Lab Sample ID: 680-245891-L-1 DU
Matrix: Water
Analysis Batch: 819963

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	310			302		mg/L				1	5

QC Association Summary

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

Job ID: 680-245853-1

HPLC/IC

Analysis Batch: 819448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-245853-1	MCI-LF3-GWA-5	Total/NA	Water	300.0-1993 R2.1	
680-245853-2	MCI-GWA-4	Total/NA	Water	300.0-1993 R2.1	
680-245853-3	MCI-GWA-3A	Total/NA	Water	300.0-1993 R2.1	
680-245853-4	MCI-GWA-2B	Total/NA	Water	300.0-1993 R2.1	
680-245853-5	MCI-GWC-6A	Total/NA	Water	300.0-1993 R2.1	
680-245853-6	MCI-LF3-FB-09	Total/NA	Water	300.0-1993 R2.1	
680-245853-7	MCI-LF3-EB-11	Total/NA	Water	300.0-1993 R2.1	
680-245853-8	MCI-GWC-1A	Total/NA	Water	300.0-1993 R2.1	
680-245853-9	MCI-GWC-2	Total/NA	Water	300.0-1993 R2.1	
680-245853-10	MCI-LF3-FD-06	Total/NA	Water	300.0-1993 R2.1	
680-245853-11	MCI-GWA-7A	Total/NA	Water	300.0-1993 R2.1	
680-245853-12	MCI-GWA-1B	Total/NA	Water	300.0-1993 R2.1	
680-245853-13	MCI-GWC-5A	Total/NA	Water	300.0-1993 R2.1	
680-245853-14	MCI-LF3-FB-10	Total/NA	Water	300.0-1993 R2.1	
680-245853-15	MCI-LF3-GWC-4A	Total/NA	Water	300.0-1993 R2.1	
680-245853-16	MCI-LF3-FD-05	Total/NA	Water	300.0-1993 R2.1	
680-245853-17	MCI-LF3-EB-12	Total/NA	Water	300.0-1993 R2.1	
MB 680-819448/2	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-819448/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-819448/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-245853-1 MS	MCI-LF3-GWA-5	Total/NA	Water	300.0-1993 R2.1	
680-245853-1 MSD	MCI-LF3-GWA-5	Total/NA	Water	300.0-1993 R2.1	
680-245853-11 MS	MCI-GWA-7A	Total/NA	Water	300.0-1993 R2.1	
680-245853-11 MSD	MCI-GWA-7A	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 819334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-245853-1	MCI-LF3-GWA-5	Total Recoverable	Water	3005A	
680-245853-2	MCI-GWA-4	Total Recoverable	Water	3005A	
680-245853-3	MCI-GWA-3A	Total Recoverable	Water	3005A	
680-245853-4	MCI-GWA-2B	Total Recoverable	Water	3005A	
680-245853-5	MCI-GWC-6A	Total Recoverable	Water	3005A	
680-245853-6	MCI-LF3-FB-09	Total Recoverable	Water	3005A	
680-245853-7	MCI-LF3-EB-11	Total Recoverable	Water	3005A	
680-245853-8	MCI-GWC-1A	Total Recoverable	Water	3005A	
680-245853-9	MCI-GWC-2	Total Recoverable	Water	3005A	
680-245853-10	MCI-LF3-FD-06	Total Recoverable	Water	3005A	
680-245853-11	MCI-GWA-7A	Total Recoverable	Water	3005A	
680-245853-12	MCI-GWA-1B	Total Recoverable	Water	3005A	
680-245853-13	MCI-GWC-5A	Total Recoverable	Water	3005A	
680-245853-14	MCI-LF3-FB-10	Total Recoverable	Water	3005A	
680-245853-15	MCI-LF3-GWC-4A	Total Recoverable	Water	3005A	
680-245853-16	MCI-LF3-FD-05	Total Recoverable	Water	3005A	
MB 680-819334/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-819334/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-245850-C-3-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-245850-C-3-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Metals

Prep Batch: 819337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-245853-17	MCI-LF3-EB-12	Total Recoverable	Water	3005A	
MB 680-819337/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-819337/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
752-15777-A-1-E MS	Matrix Spike	Total Recoverable	Water	3005A	
752-15777-A-1-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 819755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-245853-1	MCI-LF3-GWA-5	Total Recoverable	Water	6020B	819334
680-245853-2	MCI-GWA-4	Total Recoverable	Water	6020B	819334
680-245853-3	MCI-GWA-3A	Total Recoverable	Water	6020B	819334
680-245853-4	MCI-GWA-2B	Total Recoverable	Water	6020B	819334
680-245853-5	MCI-GWC-6A	Total Recoverable	Water	6020B	819334
680-245853-6	MCI-LF3-FB-09	Total Recoverable	Water	6020B	819334
680-245853-7	MCI-LF3-EB-11	Total Recoverable	Water	6020B	819334
680-245853-8	MCI-GWC-1A	Total Recoverable	Water	6020B	819334
680-245853-9	MCI-GWC-2	Total Recoverable	Water	6020B	819334
680-245853-10	MCI-LF3-FD-06	Total Recoverable	Water	6020B	819334
680-245853-11	MCI-GWA-7A	Total Recoverable	Water	6020B	819334
680-245853-12	MCI-GWA-1B	Total Recoverable	Water	6020B	819334
680-245853-13	MCI-GWC-5A	Total Recoverable	Water	6020B	819334
680-245853-14	MCI-LF3-FB-10	Total Recoverable	Water	6020B	819334
680-245853-15	MCI-LF3-GWC-4A	Total Recoverable	Water	6020B	819334
680-245853-16	MCI-LF3-FD-05	Total Recoverable	Water	6020B	819334
680-245853-17	MCI-LF3-EB-12	Total Recoverable	Water	6020B	819337
MB 680-819334/1-A	Method Blank	Total Recoverable	Water	6020B	819334
MB 680-819337/1-A	Method Blank	Total Recoverable	Water	6020B	819337
LCS 680-819334/2-A	Lab Control Sample	Total Recoverable	Water	6020B	819334
LCS 680-819337/2-A	Lab Control Sample	Total Recoverable	Water	6020B	819337
680-245850-C-3-B MS	Matrix Spike	Total Recoverable	Water	6020B	819334
680-245850-C-3-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	819334
752-15777-A-1-E MS	Matrix Spike	Total Recoverable	Water	6020B	819337
752-15777-A-1-F MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	819337

Analysis Batch: 820100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-245853-11	MCI-GWA-7A	Total Recoverable	Water	6020B	819334

General Chemistry

Analysis Batch: 819515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-245853-1	MCI-LF3-GWA-5	Total/NA	Water	2540C-2011	
680-245853-2	MCI-GWA-4	Total/NA	Water	2540C-2011	
680-245853-3	MCI-GWA-3A	Total/NA	Water	2540C-2011	
680-245853-4	MCI-GWA-2B	Total/NA	Water	2540C-2011	
680-245853-5	MCI-GWC-6A	Total/NA	Water	2540C-2011	
680-245853-6	MCI-LF3-FB-09	Total/NA	Water	2540C-2011	
680-245853-7	MCI-LF3-EB-11	Total/NA	Water	2540C-2011	
680-245853-8	MCI-GWC-1A	Total/NA	Water	2540C-2011	
680-245853-9	MCI-GWC-2	Total/NA	Water	2540C-2011	

General Chemistry (Continued)

Analysis Batch: 819515 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-245853-10	MCI-LF3-FD-06	Total/NA	Water	2540C-2011	
680-245853-11	MCI-GWA-7A	Total/NA	Water	2540C-2011	
680-245853-12	MCI-GWA-1B	Total/NA	Water	2540C-2011	
680-245853-13	MCI-GWC-5A	Total/NA	Water	2540C-2011	
680-245853-14	MCI-LF3-FB-10	Total/NA	Water	2540C-2011	
680-245853-15	MCI-LF3-GWC-4A	Total/NA	Water	2540C-2011	
MB 680-819515/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-819515/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-819515/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-245846-C-1 DU	Duplicate	Total/NA	Water	2540C-2011	
680-245865-A-5 DU	Duplicate	Total/NA	Water	2540C-2011	

Analysis Batch: 819963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-245853-16	MCI-LF3-FD-05	Total/NA	Water	2540C-2011	
680-245853-17	MCI-LF3-EB-12	Total/NA	Water	2540C-2011	
MB 680-819963/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-819963/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-819963/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-245891-L-1 DU	Duplicate	Total/NA	Water	2540C-2011	

Client Sample ID: MCI-LF3-GWA-5

Lab Sample ID: 680-245853-1

Date Collected: 01/23/24 09:52

Matrix: Water

Date Received: 01/24/24 08:38

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	819448	01/25/24 12:22	UI	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 16:43	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	819515	01/25/24 15:10	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-GWA-4

Lab Sample ID: 680-245853-2

Date Collected: 01/23/24 11:00

Matrix: Water

Date Received: 01/24/24 08:38

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	819448	01/25/24 12:54	UI	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 16:47	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	819515	01/25/24 15:10	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-GWA-3A

Lab Sample ID: 680-245853-3

Date Collected: 01/23/24 12:10

Matrix: Water

Date Received: 01/24/24 08:38

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	819448	01/25/24 13:05	UI	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 16:59	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	819515	01/25/24 15:10	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-GWA-2B

Lab Sample ID: 680-245853-4

Date Collected: 01/23/24 13:25

Matrix: Water

Date Received: 01/24/24 08:38

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	819448	01/25/24 13:16	UI	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:03	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	819515	01/25/24 15:10	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-245853-5

Date Collected: 01/23/24 14:37

Matrix: Water

Date Received: 01/24/24 08:38

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	819448	01/25/24 13:26	UI	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:07	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	819515	01/25/24 15:10	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-LF3-FB-09

Lab Sample ID: 680-245853-6

Date Collected: 01/23/24 14:30

Matrix: Water

Date Received: 01/24/24 08:38

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	819448	01/25/24 13:37	UI	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:11	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	819515	01/25/24 15:10	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-LF3-EB-11

Lab Sample ID: 680-245853-7

Date Collected: 01/23/24 15:20

Matrix: Water

Date Received: 01/24/24 08:38

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	819448	01/25/24 13:48	UI	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:15	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	819515	01/25/24 15:10	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-245853-8

Date Collected: 01/23/24 15:36

Matrix: Water

Date Received: 01/24/24 08:38

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	819448	01/25/24 13:58	UI	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:19	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	819515	01/25/24 15:10	PG	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 680-245853-1

Client Sample ID: MCI-GWC-2

Lab Sample ID: 680-245853-9

Date Collected: 01/23/24 16:35
Matrix: Water
Date Received: 01/24/24 08:38

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	819448	01/25/24 14:09	UI	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:23	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	819515	01/25/24 15:10	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-LF3-FD-06

Lab Sample ID: 680-245853-10

Date Collected: 01/23/24 00:00
Matrix: Water
Date Received: 01/24/24 08:38

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	819448	01/25/24 14:20	UI	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:27	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	819515	01/25/24 15:10	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-GWA-7A

Lab Sample ID: 680-245853-11

Date Collected: 01/23/24 10:35
Matrix: Water
Date Received: 01/24/24 08:38

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	819448	01/25/24 14:52	UI	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:31	BWR	EET SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			25 mL	125 mL	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			820100	01/29/24 15:11	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	819515	01/25/24 15:10	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-245853-12

Date Collected: 01/23/24 11:50
Matrix: Water
Date Received: 01/24/24 08:38

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	819448	01/25/24 15:23	UI	EET SAV
	Instrument ID: CICK									

Lab Chronicle

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

Job ID: 680-245853-1

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-245853-12

Date Collected: 01/23/24 11:50

Matrix: Water

Date Received: 01/24/24 08:38

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	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:36	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	819515	01/25/24 15:10	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-245853-13

Date Collected: 01/23/24 14:40

Matrix: Water

Date Received: 01/24/24 08:38

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	819448	01/25/24 15:34	UI	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:48	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	819515	01/25/24 15:10	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-LF3-FB-10

Lab Sample ID: 680-245853-14

Date Collected: 01/23/24 15:30

Matrix: Water

Date Received: 01/24/24 08:38

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	819448	01/25/24 15:45	UI	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:52	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	819515	01/25/24 15:10	PG	EET SAV
	Instrument ID: NOEQUIP									

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

Lab Sample ID: 680-245853-15

Date Collected: 01/23/24 15:46

Matrix: Water

Date Received: 01/24/24 08:38

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	819448	01/25/24 15:55	UI	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:56	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	819515	01/25/24 15:10	PG	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Job ID: 680-245853-1
Project/Site: Plant McIntosh Landfill #3

Client Sample ID: MCI-LF3-FD-05
Lab Sample ID: 680-245853-16

Date Collected: 01/23/24 00:00
Matrix: Water
Date Received: 01/24/24 08:38

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	819448	01/25/24 16:06	UI	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 18:00	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	819963	01/29/24 11:14	PG	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCI-LF3-EB-12
Lab Sample ID: 680-245853-17

Date Collected: 01/23/24 16:15
Matrix: Water
Date Received: 01/24/24 08:38

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	819448	01/25/24 16:17	UI	EET SAV
	Instrument ID: CICK									
Total Recoverable	Prep	3005A			25 mL	125 mL	819337	01/25/24 07:12	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 13:39	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	819963	01/29/24 11:14	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
Job ID: 680-245853-1
Project/Site: Plant McIntosh Landfill #3

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

Method Summary

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

Job ID: 680-245853-1

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: H. Awl & J. Beckford ACC	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of 2
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Atlanta	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: GA, 30308				Other:
Phone: 404-506-7116(Tel)	Lab Project #: 68027732			
Email: SCS Contacts / ACC Contacts	PO #: GPC82130-0002			
Project Name: Plant McIntosh Landfill 3	Project #:			
Site: Georgia	SSOW#:			

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)	APP III Metals: B,Ca	Cl, F, SO4, & TDS (EPA 300.0 & SM 2540C)	Custom State 8 Permit Metals (EPA 6020): Ba,Be,Cr,Co,Cu,Pb,V,Zn	Total Number of containers	Task_Code: MCI-CCR-ASSMT-2024S1 / Special Instructions/Note: Full APP III + 8 State Metals
			Preservation Code:				D	I	D		
MCI- LF3 - GWA - 5	01/23/24	0952	G	WG	N	N	✓	✓	✓	3	
MCI- GWA - 4	01/23/24	1100	G	WG	N	N	✓	✓	✓	3	
MCI- GWA - 3A	01/23/24	1210	G	WG	N	N	✓	✓	✓	3	
MCI- GWA - 2B	01/23/24	1325	G	WG	N	N	✓	✓	✓	3	
MCI- GWC - 6A	01/23/24	1437	G	WG	N	N	✓	✓	✓	3	
MCI- LF3 - FB - 09	01/23/24	1430	G	WQ	✓	N	✓	✓	✓	3	
MCI- LF3 - EB - 11	01/23/24	1520	G	WQ	N	N	✓	✓	✓	3	
MCI- GWC - 1A	01/23/24	1536	G	WG	N	N	✓	✓	✓	3	
MCI- GWC - 2	01/23/24	1675	G	WG	N	N	✓	✓	✓	3	
MCI- LF3 - FD - 06	01/23/24	—	G	WG	N	N	✓	✓	✓	3	
MCI-			G			N					

680-245853 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: State Permit Metals: barium, beryllium, chromium, cobalt, copper, lead, vanadium, zinc

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11/24/21 0838	ACC		11/24/22 0838	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.1 -0.1 0.4 -0.4 ; 0.6 -0.6

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: J. Berisford H. Auld ACC	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5948	E-Mail: david.fuller@et.eurofinsus.com		Page: 2 of 2
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027732			
Email: SCS Contacts / ACC Contacts	PO #: GPC82130-0002			
Project Name: Plant McIntosh Landfill 3	Project #:			
Site: Georgia	SSOW#:			

Analysis Requested

Preservation Codes:

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)

Other:

Task_Code: MCI-CCR-ASSMT-2024S1

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)	APP III Metals: B,Ca	Cl, F, SO_4 & TDS (EPA 300.0 & SM 2540C)	Custom State 8 Permit Metals (EPA 6020): Ba,Be,Cr,Co,Cu,Pb,V,Zn	Total Number of containers
			Preservation Code:				D	I	D	
MCI- GWA-7A	01/23/24	1035	G	WG	N	N	✓	✓	✓	3
MCI- GWA-1B	01/23/24	1150	G	WG	N	N	✓	✓	✓	3
MCI- GWC-5A	01/23/24	1440	G	WG	N	N	✓	✓	✓	3
MCI- LF3-FB-10	01/23/24	1530	G	WQ	N	N	✓	✓	✓	3
MCI- LF3-GWC-4A	01/23/24	1546	G	WG	N	N	✓	✓	✓	3
MCI- LF3-FD-05	01/23/24	—	G	WG	N	N	✓	✓	✓	3
MCI- LF3-FB-12	01/23/24	1615	G	WQ	N	N	✓	✓	✓	3
MCI-			G			N				
MCI-			G			N				
MCI-			G			N				
MCI-			G			N				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: State Permit Metals: barium, beryllium, chromium, cobalt, copper, lead, vanadium, zinc

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/24/24 0738	ACC		1/24/24 0738	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.1-0.1, 0.4-0.4, 0.6-0.6

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-245853-1

Login Number: 245853

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/31/2024 1:08:43 PM

JOB DESCRIPTION

Plant McIntosh Landfill #3

JOB NUMBER

680-245853-2

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

my EOL

Job Notes

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

Authorization



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1/31/2024 1:08:43 PM

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

Definitions/Glossary

Client: Southern Company
Job ID: 680-245853-2
Project/Site: Plant McIntosh Landfill #3

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

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
Job ID: 680-245853-2
Project/Site: Plant McIntosh Landfill #3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-245853-1	MCI-LF3-GWA-5	Water	01/23/24 09:52	01/24/24 08:38
680-245853-2	MCI-GWA-4	Water	01/23/24 11:00	01/24/24 08:38
680-245853-3	MCI-GWA-3A	Water	01/23/24 12:10	01/24/24 08:38
680-245853-4	MCI-GWA-2B	Water	01/23/24 13:25	01/24/24 08:38
680-245853-5	MCI-GWC-6A	Water	01/23/24 14:37	01/24/24 08:38
680-245853-8	MCI-GWC-1A	Water	01/23/24 15:36	01/24/24 08:38
680-245853-9	MCI-GWC-2	Water	01/23/24 16:35	01/24/24 08:38
680-245853-11	MCI-GWA-7A	Water	01/23/24 10:35	01/24/24 08:38
680-245853-12	MCI-GWA-1B	Water	01/23/24 11:50	01/24/24 08:38
680-245853-13	MCI-GWC-5A	Water	01/23/24 14:40	01/24/24 08:38
680-245853-15	MCI-LF3-GWC-4A	Water	01/23/24 15:46	01/24/24 08:38

Job ID: 680-245853-2 — Eurofins Savannah

Job Narrative
680-245853-2

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 1/24/2024 8:38 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.1°C, 0.4°C and 0.6°C

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

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

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

Job ID: 680-245853-2

Client Sample ID: MCI-LF3-GWA-5

Lab Sample ID: 680-245853-1

Date Collected: 01/23/24 09:52

Matrix: Water

Date Received: 01/24/24 08:38

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		01/25/24 06:17	01/26/24 16:43	1
Potassium	**1.9**		0.50	0.044	mg/L		01/25/24 06:17	01/26/24 16:43	1
Sodium	**7.1**		0.50	0.20	mg/L		01/25/24 06:17	01/26/24 16:43	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			01/26/24 15:54	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/26/24 15:54	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/26/24 15:54	1

Client Sample ID: MCI-GWA-4

Lab Sample ID: 680-245853-2

Date Collected: 01/23/24 11:00

Matrix: Water

Date Received: 01/24/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**0.89**		0.50	0.023	mg/L		01/25/24 06:17	01/26/24 16:47	1
Potassium	**1.2**		0.50	0.044	mg/L		01/25/24 06:17	01/26/24 16:47	1
Sodium	**3.9**		0.50	0.20	mg/L		01/25/24 06:17	01/26/24 16:47	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			01/26/24 15:42	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/26/24 15:42	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/26/24 15:42	1

Client Sample ID: MCI-GWA-3A

Lab Sample ID: 680-245853-3

Date Collected: 01/23/24 12:10

Matrix: Water

Date Received: 01/24/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**2.1**		0.50	0.023	mg/L		01/25/24 06:17	01/26/24 16:59	1
Potassium	**3.4**		0.50	0.044	mg/L		01/25/24 06:17	01/26/24 16:59	1
Sodium	**9.7**		0.50	0.20	mg/L		01/25/24 06:17	01/26/24 16:59	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			01/26/24 15:48	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/26/24 15:48	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/26/24 15:48	1

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

Job ID: 680-245853-2

Client Sample ID: MCI-GWA-2B

Lab Sample ID: 680-245853-4

Date Collected: 01/23/24 13:25

Matrix: Water

Date Received: 01/24/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	3.0		0.50	0.023	mg/L		01/25/24 06:17	01/26/24 17:03	1
Potassium	2.7		0.50	0.044	mg/L		01/25/24 06:17	01/26/24 17:03	1
Sodium	13		0.50	0.20	mg/L		01/25/24 06:17	01/26/24 17:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	8.9		5.0	5.0	mg/L			01/26/24 18:55	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	8.9		5.0	5.0	mg/L			01/26/24 18:55	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/26/24 18:55	1

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-245853-5

Date Collected: 01/23/24 14:37

Matrix: Water

Date Received: 01/24/24 08:38

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		01/25/24 06:17	01/26/24 17:07	1
Potassium	1.7		0.50	0.044	mg/L		01/25/24 06:17	01/26/24 17:07	1
Sodium	6.6		0.50	0.20	mg/L		01/25/24 06:17	01/26/24 17:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	11		5.0	5.0	mg/L			01/26/24 18:41	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	11		5.0	5.0	mg/L			01/26/24 18:41	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/26/24 18:41	1

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-245853-8

Date Collected: 01/23/24 15:36

Matrix: Water

Date Received: 01/24/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	3.1		0.50	0.023	mg/L		01/25/24 06:17	01/26/24 17:19	1
Potassium	1.9		0.50	0.044	mg/L		01/25/24 06:17	01/26/24 17:19	1
Sodium	5.3		0.50	0.20	mg/L		01/25/24 06:17	01/26/24 17:19	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			01/26/24 16:15	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/26/24 16:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/26/24 16:15	1

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

Job ID: 680-245853-2

Client Sample ID: MCI-GWC-2

Lab Sample ID: 680-245853-9

Date Collected: 01/23/24 16:35
Matrix: Water
Date Received: 01/24/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	0.91		0.50	0.023	mg/L		01/25/24 06:17	01/26/24 17:23	1
Potassium	1.7		0.50	0.044	mg/L		01/25/24 06:17	01/26/24 17:23	1
Sodium	4.5		0.50	0.20	mg/L		01/25/24 06:17	01/26/24 17:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	8.1		5.0	5.0	mg/L			01/26/24 18:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	8.1		5.0	5.0	mg/L			01/26/24 18:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/26/24 18:27	1

Client Sample ID: MCI-GWA-7A

Lab Sample ID: 680-245853-11

Date Collected: 01/23/24 10:35
Matrix: Water
Date Received: 01/24/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	3.6		0.50	0.023	mg/L		01/25/24 06:17	01/26/24 17:31	1
Potassium	2.6		0.50	0.044	mg/L		01/25/24 06:17	01/26/24 17:31	1
Sodium	17		0.50	0.20	mg/L		01/25/24 06:17	01/26/24 17:31	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			01/26/24 18:48	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	6.7		5.0	5.0	mg/L			01/26/24 18:48	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/26/24 18:48	1

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-245853-12

Date Collected: 01/23/24 11:50
Matrix: Water
Date Received: 01/24/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	3.0		0.50	0.023	mg/L		01/25/24 06:17	01/26/24 17:36	1
Potassium	1.1		0.50	0.044	mg/L		01/25/24 06:17	01/26/24 17:36	1
Sodium	5.4		0.50	0.20	mg/L		01/25/24 06:17	01/26/24 17:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	45		5.0	5.0	mg/L			01/26/24 16:09	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	45		5.0	5.0	mg/L			01/26/24 16:09	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/26/24 16:09	1

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

Job ID: 680-245853-2

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-245853-13

Date Collected: 01/23/24 14:40

Matrix: Water

Date Received: 01/24/24 08:38

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		01/25/24 06:17	01/26/24 17:48	1
Potassium	**1.3**		0.50	0.044	mg/L		01/25/24 06:17	01/26/24 17:48	1
Sodium	**2.5**		0.50	0.20	mg/L		01/25/24 06:17	01/26/24 17:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**6.3**		5.0	5.0	mg/L			01/26/24 16:01	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**6.3**		5.0	5.0	mg/L			01/26/24 16:01	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/26/24 16:01	1

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

Lab Sample ID: 680-245853-15

Date Collected: 01/23/24 15:46

Matrix: Water

Date Received: 01/24/24 08:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	**0.72**		0.50	0.023	mg/L		01/25/24 06:17	01/26/24 17:56	1
Potassium	**0.67**		0.50	0.044	mg/L		01/25/24 06:17	01/26/24 17:56	1
Sodium	**1.8**		0.50	0.20	mg/L		01/25/24 06:17	01/26/24 17:56	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			01/26/24 16:21	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/26/24 16:21	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<5.0		5.0	5.0	mg/L			01/26/24 16:21	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-819334/1-A
Matrix: Water
Analysis Batch: 819755

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 819334

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	<0.023		0.50	0.023	mg/L		01/25/24 06:17	01/26/24 16:10	1
Potassium	<0.044		0.50	0.044	mg/L		01/25/24 06:17	01/26/24 16:10	1
Sodium	<0.20		0.50	0.20	mg/L		01/25/24 06:17	01/26/24 16:10	1

Lab Sample ID: LCS 680-819334/2-A
Matrix: Water
Analysis Batch: 819755

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 819334

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	5.00	4.82		mg/L		96	80 - 120
Potassium	7.00	6.97		mg/L		100	80 - 120
Sodium	5.03	4.76		mg/L		95	80 - 120

Lab Sample ID: 680-245850-C-3-B MS
Matrix: Water
Analysis Batch: 819755

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 819334

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Magnesium	9.3		5.00	13.6		mg/L		86	75 - 125
Potassium	35		7.00	38.9	4	mg/L		56	75 - 125
Sodium	320		5.03	304	4	mg/L		-352	75 - 125

Lab Sample ID: 680-245850-C-3-C MSD
Matrix: Water
Analysis Batch: 819755

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 819334

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Magnesium	9.3		5.00	13.8		mg/L		89	75 - 125	1	20
Potassium	35		7.00	42.6	4	mg/L		109	75 - 125	9	20
Sodium	320		5.03	310	4	mg/L		-230	75 - 125	2	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-819933/4
Matrix: Water
Analysis Batch: 819933

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			01/26/24 12:27	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			01/26/24 12:27	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			01/26/24 12:27	1

Lab Sample ID: LCS 680-819933/6
Matrix: Water
Analysis Batch: 819933

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	248		mg/L		99	90 - 112

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

Lab Sample ID: LCSD 680-819933/31
Matrix: Water
Analysis Batch: 819933

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	250		mg/L		100	90 - 112	1	30

Lab Sample ID: 680-245850-A-2 DU
Matrix: Water
Analysis Batch: 819933

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3	7.2			<5.0		mg/L				NC	30
Bicarbonate Alkalinity as CaCO3	7.2			<5.0		mg/L				NC	30
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	30

Lab Sample ID: MB 680-819947/4
Matrix: Water
Analysis Batch: 819947

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			01/26/24 18:03	1
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			01/26/24 18:03	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	5.0	mg/L			01/26/24 18:03	1

Lab Sample ID: LCS 680-819947/6
Matrix: Water
Analysis Batch: 819947

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	251		mg/L		100	90 - 112		

Lab Sample ID: LCSD 680-819947/31
Matrix: Water
Analysis Batch: 819947

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	252		mg/L		101	90 - 112	1	30

Lab Sample ID: 680-245853-9 DU
Matrix: Water
Analysis Batch: 819947

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

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity as CaCO3	8.1			7.03		mg/L				15	30
Bicarbonate Alkalinity as CaCO3	8.1			7.03		mg/L				15	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: 680-245853-2

Metals

Prep Batch: 819334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-245853-1	MCI-LF3-GWA-5	Total Recoverable	Water	3005A	
680-245853-2	MCI-GWA-4	Total Recoverable	Water	3005A	
680-245853-3	MCI-GWA-3A	Total Recoverable	Water	3005A	
680-245853-4	MCI-GWA-2B	Total Recoverable	Water	3005A	
680-245853-5	MCI-GWC-6A	Total Recoverable	Water	3005A	
680-245853-8	MCI-GWC-1A	Total Recoverable	Water	3005A	
680-245853-9	MCI-GWC-2	Total Recoverable	Water	3005A	
680-245853-11	MCI-GWA-7A	Total Recoverable	Water	3005A	
680-245853-12	MCI-GWA-1B	Total Recoverable	Water	3005A	
680-245853-13	MCI-GWC-5A	Total Recoverable	Water	3005A	
680-245853-15	MCI-LF3-GWC-4A	Total Recoverable	Water	3005A	
MB 680-819334/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-819334/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
680-245850-C-3-B MS	Matrix Spike	Total Recoverable	Water	3005A	
680-245850-C-3-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 819755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-245853-1	MCI-LF3-GWA-5	Total Recoverable	Water	6020B	819334
680-245853-2	MCI-GWA-4	Total Recoverable	Water	6020B	819334
680-245853-3	MCI-GWA-3A	Total Recoverable	Water	6020B	819334
680-245853-4	MCI-GWA-2B	Total Recoverable	Water	6020B	819334
680-245853-5	MCI-GWC-6A	Total Recoverable	Water	6020B	819334
680-245853-8	MCI-GWC-1A	Total Recoverable	Water	6020B	819334
680-245853-9	MCI-GWC-2	Total Recoverable	Water	6020B	819334
680-245853-11	MCI-GWA-7A	Total Recoverable	Water	6020B	819334
680-245853-12	MCI-GWA-1B	Total Recoverable	Water	6020B	819334
680-245853-13	MCI-GWC-5A	Total Recoverable	Water	6020B	819334
680-245853-15	MCI-LF3-GWC-4A	Total Recoverable	Water	6020B	819334
MB 680-819334/1-A	Method Blank	Total Recoverable	Water	6020B	819334
LCS 680-819334/2-A	Lab Control Sample	Total Recoverable	Water	6020B	819334
680-245850-C-3-B MS	Matrix Spike	Total Recoverable	Water	6020B	819334
680-245850-C-3-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	819334

General Chemistry

Analysis Batch: 819933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-245853-1	MCI-LF3-GWA-5	Total/NA	Water	2320B-2011	
680-245853-2	MCI-GWA-4	Total/NA	Water	2320B-2011	
680-245853-3	MCI-GWA-3A	Total/NA	Water	2320B-2011	
680-245853-8	MCI-GWC-1A	Total/NA	Water	2320B-2011	
680-245853-12	MCI-GWA-1B	Total/NA	Water	2320B-2011	
680-245853-13	MCI-GWC-5A	Total/NA	Water	2320B-2011	
680-245853-15	MCI-LF3-GWC-4A	Total/NA	Water	2320B-2011	
MB 680-819933/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-819933/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-819933/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-245850-A-2 DU	Duplicate	Total/NA	Water	2320B-2011	

QC Association Summary

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

Job ID: 680-245853-2

General Chemistry

Analysis Batch: 819947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-245853-4	MCI-GWA-2B	Total/NA	Water	2320B-2011	
680-245853-5	MCI-GWC-6A	Total/NA	Water	2320B-2011	
680-245853-9	MCI-GWC-2	Total/NA	Water	2320B-2011	
680-245853-11	MCI-GWA-7A	Total/NA	Water	2320B-2011	
MB 680-819947/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-819947/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-819947/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-245853-9 DU	MCI-GWC-2	Total/NA	Water	2320B-2011	

Lab Chronicle

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

Job ID: 680-245853-2

Client Sample ID: MCI-LF3-GWA-5

Lab Sample ID: 680-245853-1

Date Collected: 01/23/24 09:52
Matrix: Water
Date Received: 01/24/24 08:38

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	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 16:43	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			819933	01/26/24 15:54	PG	EET SAV
	Instrument ID: MANTECH 2									

Client Sample ID: MCI-GWA-4

Lab Sample ID: 680-245853-2

Date Collected: 01/23/24 11:00
Matrix: Water
Date Received: 01/24/24 08:38

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	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 16:47	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			819933	01/26/24 15:42	PG	EET SAV
	Instrument ID: MANTECH 2									

Client Sample ID: MCI-GWA-3A

Lab Sample ID: 680-245853-3

Date Collected: 01/23/24 12:10
Matrix: Water
Date Received: 01/24/24 08:38

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	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 16:59	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			819933	01/26/24 15:48	PG	EET SAV
	Instrument ID: MANTECH 2									

Client Sample ID: MCI-GWA-2B

Lab Sample ID: 680-245853-4

Date Collected: 01/23/24 13:25
Matrix: Water
Date Received: 01/24/24 08:38

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	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:03	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			819947	01/26/24 18:55	PG	EET SAV
	Instrument ID: MANTECH 2									

Lab Chronicle

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

Job ID: 680-245853-2

Client Sample ID: MCI-GWC-6A

Lab Sample ID: 680-245853-5

Date Collected: 01/23/24 14:37
Matrix: Water
Date Received: 01/24/24 08:38

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	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:07	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			819947	01/26/24 18:41	PG	EET SAV
	Instrument ID: MANTECH 2									

Client Sample ID: MCI-GWC-1A

Lab Sample ID: 680-245853-8

Date Collected: 01/23/24 15:36
Matrix: Water
Date Received: 01/24/24 08:38

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	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:19	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			819933	01/26/24 16:15	PG	EET SAV
	Instrument ID: MANTECH 2									

Client Sample ID: MCI-GWC-2

Lab Sample ID: 680-245853-9

Date Collected: 01/23/24 16:35
Matrix: Water
Date Received: 01/24/24 08:38

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	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:23	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			819947	01/26/24 18:27	PG	EET SAV
	Instrument ID: MANTECH 2									

Client Sample ID: MCI-GWA-7A

Lab Sample ID: 680-245853-11

Date Collected: 01/23/24 10:35
Matrix: Water
Date Received: 01/24/24 08:38

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	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:31	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			819947	01/26/24 18:48	PG	EET SAV
	Instrument ID: MANTECH 2									

Lab Chronicle

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

Job ID: 680-245853-2

Client Sample ID: MCI-GWA-1B

Lab Sample ID: 680-245853-12

Date Collected: 01/23/24 11:50
Matrix: Water
Date Received: 01/24/24 08:38

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	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:36	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			819933	01/26/24 16:09	PG	EET SAV
	Instrument ID: MANTECH 2									

Client Sample ID: MCI-GWC-5A

Lab Sample ID: 680-245853-13

Date Collected: 01/23/24 14:40
Matrix: Water
Date Received: 01/24/24 08:38

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	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:48	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			819933	01/26/24 16:01	PG	EET SAV
	Instrument ID: MANTECH 2									

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

Lab Sample ID: 680-245853-15

Date Collected: 01/23/24 15:46
Matrix: Water
Date Received: 01/24/24 08:38

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	819334	01/25/24 06:17	RR	EET SAV
Total Recoverable	Analysis	6020B		1			819755	01/26/24 17:56	BWR	EET SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	2320B-2011		1			819933	01/26/24 16:21	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
Job ID: 680-245853-2
Project/Site: Plant McIntosh Landfill #3

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24

Method Summary

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

Job ID: 680-245853-2

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

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: H. Awl & J. Beckford ACC	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of 2
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027732			
Email: SCS Contacts / ACC Contacts	PO #: GPC82130-0002			
Project Name: Plant McIntosh Landfill 3	Project #:			
Site: Georgia	SSOW#:			

Analysis Requested

Preservation Codes:

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)

Other:

Task_Code: MCI-CCR-ASSMT-2024S1

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)	APP III Metals: B,Ca	Cl, F, SO4, & TDS (EPA 300.0 & SM 2540C)	Custom State 8 Permit Metals (EPA 6020): Ba,Be,Cr,Co,Cu,Pb,V,Zn	Total Number of containers
			Preservation Code:				D	I	D	
MCI- LF3 - GWA - 5	01/23/24	0952	G	WG	N	N	✓	✓	✓	3
MCI- GWA - 4	01/23/24	1100	G	WG	N	N	✓	✓	✓	3
MCI- GWA - 3A	01/23/24	1210	G	WG	N	N	✓	✓	✓	3
MCI- GWA - 2B	01/23/24	1325	G	WG	N	N	✓	✓	✓	3
MCI- GWC - 6A	01/23/24	1437	G	WG	N	N	✓	✓	✓	3
MCI- LF3 - FB - 09	01/23/24	1430	G	WQ	✓	N	✓	✓	✓	3
MCI- LF3 - EB - 11	01/23/24	1520	G	WQ	N	N	✓	✓	✓	3
MCI- GWC - 1A	01/23/24	1536	G	WG	N	N	✓	✓	✓	3
MCI- GWC - 2	01/23/24	1675	G	WG	N	N	✓	✓	✓	3
MCI- LF3 - FD - 06	01/23/24	—	G	WG	N	N	✓	✓	✓	3
MCI-			G			N				

680-245853 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: State Permit Metals: barium, beryllium, chromium, cobalt, copper, lead, vanadium, zinc

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11/24/23 0838	ACC		11/24/23 0838	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.1 -0.1 0.4 -0.4 ; 0.6 -0.6

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: J. Brinkley H. Auld ACC	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5948	E-Mail: david.fuller@et.eurofinsus.com		Page: 2 of 2
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027732			
Email: SCS Contacts / ACC Contacts	PO #: GPC82130-0002			
Project Name: Plant McIntosh Landfill 3	Project #:			
Site: Georgia	SSOW#:			

Analysis Requested

Preservation Codes:

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)

Other:

Task_Code: MCI-CCR-ASSMT-2024S1

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)	APP III Metals: B,Ca	Cl, F, SO_4 & TDS (EPA 300.0 & SM 2540C)	Custom State 8 Permit Metals (EPA 6020): Ba,Be,Cr,Co,Cu,Pb,V,Zn	Total Number of containers
			Preservation Code:				D	I	D	
MCI- GWA-7A	01/23/24	1035	G	WG	N	N	✓	✓	✓	3
MCI- GWA-1B	01/23/24	1150	G	WG	N	N	✓	✓	✓	3
MCI- GWC-5A	01/23/24	1440	G	WG	N	N	✓	✓	✓	3
MCI- LF3-FB-10	01/23/24	1530	G	WQ	N	N	✓	✓	✓	3
MCI- LF3-GWC-4A	01/23/24	1546	G	WG	N	N	✓	✓	✓	3
MCI- LF3-FD-05	01/23/24	—	G	WG	N	N	✓	✓	✓	3
MCI- LF3-FB-12	01/23/24	1615	G	WQ	N	N	✓	✓	✓	3
MCI-			G			N				
MCI-			G			N				
MCI-			G			N				
MCI-			G			N				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: State Permit Metals: barium, beryllium, chromium, cobalt, copper, lead, vanadium, zinc

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/24/24 0738	ACC		1/24/24 0738	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.1-0.1, 0.4-0.4, 0.6-0.6

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Hand J Bostick ACC	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5998	E-Mail: david.fuller@et.eurofinsus.com		Page: 1 of 2
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:	Analysis Requested		
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30308				
Phone: 404-506-7116(Tel)	Lab Project #: 68027732			
Email: SCS Contacts / ACC Contacts	PO #: GPC82130-0002			
Project Name: Plant McIntosh Landfill 3	Project #:			
Site: Georgia	SSOW#:			

Preservation Codes:

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)

Other:

Task_Code: MCI-CCR-ASSMT-2024S1

Special Instructions/Note: ALK + 3 Cations (Report Separately)

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)	Cations: Mg,Na,K	Total Alkalinity, Carbonate Alkalinity, Bicarbonate Alkalinity	Total Number of containers
			Preservation Code:				B	A	
MCI- LF3-GWA-5	01/23/24	0952	G	WG	N	N	✓	✓	1
MCI- GWA-4	01/23/24	1100	G	WG	N	N	✓	✓	1
MCI- GWA-3A	01/23/24	1210	G	WG	N	N	✓	✓	1
MCI- GWA-2B	01/23/24	1325	G	WG	N	N	✓	✓	1
MCI- GWC-6A	01/23/24	1437	G	WG	N	N	✓	✓	1
MCI- GWC-1A	01/23/24	1536	G	WG	N	N	✓	✓	1
MCI- GWC-2	01/23/24	1635	G	WG	N	N	✓	✓	1
MCI-			G	WG	N	N			
MCI-			G	WG	N	N			
MCI-			G	WG	N	N			
MCI-			G	WG	N	N			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ 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:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	1/24/24 0838	ACC		1/24/22 0830	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.1-0.1 0.4-0.4 0.6-0.6

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: J. Beckford H. Arnold ACC	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No:
Client Contact: SCS Contacts	Phone: 770-594-5448	E-Mail: david.fuller@et.eurofinsus.com		Page: 2 of 2
Company: GA Power				Job #:
Address: 241 Ralph McGill Blvd SE	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Atlanta	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: GA, 30308				Other:
Phone: 404-506-7116(Tel)	Lab Project #: 68027732			
Email: SCS Contacts / ACC Contacts	PO #: GPC82130-0002			
Project Name: Plant McIntosh Landfill 3	Project #:			
Site: Georgia	SSOW#:			

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)	Cations: Mg,Na,K	Total Alkalinity, Carbonate Alkalinity, Bicarbonate Alkalinity	Total Number of containers	Task_Code: MCI-CCR-ASSMT-2024S1 Special Instructions/Note: ALK + 3 Cations (Report Separately)
			Preservation Code:				D	I		
MCI- GWA-7A	01/23/24	1035	G	WG	N	N	✓	✓	1	
MCI- GWA-13	01/23/24	1150	G	WG	N	N	✓	✓	1	
MCI- GWC-5A	01/23/24	1440	G	WG	N	N	✓	✓	1	
MCI- LF3-GWC-4A	01/23/24	1546	G	WG	N	N	✓	✓	1	
MCI-			G	WG	N	N				
MCI-			G	WG	N	N				
MCI-			G	WG	N	N				
MCI-			G	WG	N	N				
MCI-			G	WG	N	N				
MCI-			G	WG	N	N				
MCI-			G	WG	N	N				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ 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:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/24/24 0838	ACC		1/24/24 0838	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: CDO 0.1-0.1, 0.4-0.4 DD-0.6

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-245853-2

Login Number: 245853

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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

LEVEL 2A LABORATORY DATA VALIDATIONS

McIntosh Inactive Landfill No. 3

Annual Event

January 2024

Georgia Power Company – McIntosh Landfill 3

Quality Control Review of Analytical Data – January 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) on January 23, 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 IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)[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, except for fluoride from MCI-LF3-GWA-5 (680-245853-1) as described in the qualifications section below.

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:

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.

- Sample MCI-LF3-GWA-5 (680-245853-1) was qualified as estimated (J) for fluoride as the associated matrix spike (MS) and matrix spike duplicate (MSD) recoveries were outside QC criteria (146% and 147%, respectively, outside the range of 80-120).

Atlantic Coast Consulting, Inc. reviewed the laboratory data from McIntosh LF3 sampled on January 23, 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

[1]US EPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0

[2]US EPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

TABLE 1

Georgia Power Company – McIntosh LF3

Sample Summary Table – January 2024

						Analyses		
SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Metals (6020B)	Anions (300.0)	TDS (SM 2540C)
245853-1	MCI-LF3-GWA-5	01/23/24	680-245853-1	WG		X	X	X
245853-1	MCI-GWA-4	01/23/24	680-245853-2	WG		X	X	X
245853-1	MCI-GWA-3A	01/23/24	680-245853-3	WG		X	X	X
245853-1	MCI-GWA-2B	01/23/24	680-245853-4	WG		X	X	X
245853-1	MCI-GWC-6A	01/23/24	680-245853-5	WG		X	X	X
245853-1	MCI-LF3-FB-09	01/23/24	680-245853-6	WQ	FB	X	X	X
245853-1	MCI-LF3-EB-11	01/23/24	680-245853-7	WQ	EB	X	X	X
245853-1	MCI-GWC-1A	01/23/24	680-245853-8	WG		X	X	X
245853-1	MCI-GWC-2	01/23/24	680-245853-9	WG		X	X	X
245853-1	MCI-LF3-FD-06	01/23/24	680-245853-10	WG	FD (MCI-GWC-2)	X	X	X
245853-1	MCI-GWA-7A	01/23/24	680-245853-11	WG		X	X	X
245853-1	MCI-GWA-1B	01/23/24	680-245853-12	WG		X	X	X
245853-1	MCI-GWC-5A	01/23/24	680-245853-13	WG		X	X	X
245853-1	MCI-LF3-FB-10	01/23/24	680-245853-14	WQ	FB	X	X	X
245853-1	MCI-LF3-GWC-4A	01/23/24	680-245853-15	WG		X	X	X
245853-1	MCI-LF3-FD-05	01/23/24	680-245853-16	WG	FD (MCI-GWC-5A)	X	X	X
245853-1	MCI-LF3-EB-12	01/23/24	680-245853-17	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

TABLE 2

Georgia Power Company – McIntosh LF3

Qualifier Summary Table – January 2024

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
245853-1	MCI-LF3-GWA-5	Fluoride			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
QC – Quality Control
SDG – Sample Delivery Group
TDS – Total Dissolved Solids

Qualifiers:
B – Associated Blank Detection
J – Estimated Result
ND – Non-Detect Result

LEVEL 2A LABORATORY DATA VALIDATIONS

McIntosh Inactive Landfill No. 3

Major Ions Event

January 2024

Georgia Power Company – McIntosh Landfill 3

Quality Control Review of Analytical Data – January 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) on January 23, 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.

The samples were analyzed for major ion constituents. Test methods included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B) and Alkalinity in Water (Standard Methods 2320B).

Data were reviewed in accordance with the US EPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy (September 2011, Rev. 2.0)[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 on January 23, 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

[1]US EPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0

[2]US EPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

TABLE 1

Georgia Power Company – McIntosh LF3

Sample Summary Table – January 2024

						Analyses	
SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Metals (6020B)	Alkalinity (SM 2320B)
245853	MCI-LF3-GWA-5	01/23/24	680-245853-1	WG		X	X
245853	MCI-GWA-4	01/23/24	680-245853-2	WG		X	X
245853	MCI-GWA-3A	01/23/24	680-245853-3	WG		X	X
245853	MCI-GWA-2B	01/23/24	680-245853-4	WG		X	X
245853	MCI-GWC-6A	01/23/24	680-245853-5	WG		X	X
245853	MCI-GWC-1A	01/23/24	680-245853-8	WG		X	X
245853	MCI-GWC-2	01/23/24	680-245853-9	WG		X	X
245853	MCI-GWA-7A	01/23/24	680-245853-11	WG		X	X
245853	MCI-GWA-1B	01/23/24	680-245853-12	WG		X	X
245853	MCI-GWC-5A	01/23/24	680-245853-13	WG		X	X
245853	MCI-LF3-GWC-4A	01/23/24	680-245853-15	WG		X	X

Abbreviations:
WG – Groundwater
QC – Quality Control
SDG – Sample Delivery Group

Low-Flow Test Report:

Test Date / Time: 1/23/2024 11:00:45 AM
Project: Plant McIntosh LF3
Operator Name: J. Berisford

Location Name: GWA-1B **Well Diameter: 2 in** **Screen Length: 10 ft** **Casing Type: PVC** **Top of Screen: 48.53 ft** **Total Depth: 58.53 ft** **Initial Depth to Water: 22.92 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 12.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 3.3 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Cloudy, sample time-1150

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	
1/23/2024 11:00 AM	00:00	5.24 pH	17.30 °C	0.00 µS/cm	9.56 mg/L	2.29 NTU	54.8 mV	22.92 ft	250.00 ml/min
1/23/2024 11:05 AM	05:00	5.87 pH	16.81 °C	36.35 µS/cm	6.51 mg/L	2.53 NTU	77.8 mV	23.10 ft	250.00 ml/min
1/23/2024 11:10 AM	10:00	5.63 pH	17.90 °C	33.72 µS/cm	0.71 mg/L	2.13 NTU	81.8 mV	23.10 ft	250.00 ml/min
1/23/2024 11:15 AM	15:00	5.54 pH	18.64 °C	33.28 µS/cm	0.17 mg/L	1.55 NTU	87.2 mV	23.20 ft	250.00 ml/min
1/23/2024 11:20 AM	20:00	5.54 pH	18.72 °C	33.61 µS/cm	0.12 mg/L	1.83 NTU	79.2 mV	23.20 ft	250.00 ml/min
1/23/2024 11:25 AM	25:00	5.65 pH	18.79 °C	36.16 µS/cm	0.09 mg/L	1.12 NTU	70.9 mV	23.20 ft	250.00 ml/min
1/23/2024 11:30 AM	30:00	5.93 pH	18.76 °C	51.37 µS/cm	0.08 mg/L	1.55 NTU	44.4 mV	23.20 ft	250.00 ml/min
1/23/2024 11:35 AM	35:00	6.40 pH	18.75 °C	66.60 µS/cm	0.07 mg/L	1.28 NTU	-30.6 mV	23.20 ft	250.00 ml/min
1/23/2024 11:40 AM	40:00	6.48 pH	18.77 °C	67.98 µS/cm	0.06 mg/L	1.63 NTU	-25.8 mV	23.20 ft	250.00 ml/min
1/23/2024 11:45 AM	45:00	6.51 pH	18.77 °C	68.04 µS/cm	0.06 mg/L	1.07 NTU	-24.9 mV	23.20 ft	250.00 ml/min
1/23/2024 11:50 AM	50:00	6.52 pH	18.77 °C	68.64 µS/cm	0.05 mg/L	1.64 NTU	-24.1 mV	23.20 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/23/2024 12:50:35 PM
Project: Plant McIntosh LF3
Operator Name: Hunter Auld

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: 20.73 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 47 ft** **Estimated Total Volume Pumped: 4.4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 125 ml/min** **Final Draw Down: 16.4 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1325 on 1-23-24. Cloudy 60s.

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	
1/23/2024 12:50 PM	00:00	8.81 pH	17.13 °C	2.16 µS/cm	9.85 mg/L	5.00 NTU	214.1 mV	20.73 ft	125.00 ml/min
1/23/2024 12:55 PM	05:00	6.33 pH	18.59 °C	146.63 µS/cm	0.47 mg/L	2.50 NTU	111.9 mV	21.90 ft	125.00 ml/min
1/23/2024 1:00 PM	10:00	5.83 pH	18.80 °C	147.43 µS/cm	0.32 mg/L	2.60 NTU	104.5 mV	22.00 ft	125.00 ml/min
1/23/2024 1:05 PM	15:00	5.55 pH	18.79 °C	153.71 µS/cm	0.29 mg/L	1.30 NTU	103.1 mV	22.10 ft	125.00 ml/min
1/23/2024 1:10 PM	20:00	5.34 pH	18.71 °C	157.06 µS/cm	0.28 mg/L	0.90 NTU	102.2 mV	22.10 ft	125.00 ml/min
1/23/2024 1:15 PM	25:00	5.19 pH	18.70 °C	159.52 µS/cm	0.27 mg/L	1.00 NTU	102.8 mV	22.10 ft	125.00 ml/min
1/23/2024 1:20 PM	30:00	5.20 pH	18.76 °C	159.19 µS/cm	0.26 mg/L	1.20 NTU	102.3 mV	22.10 ft	125.00 ml/min
1/23/2024 1:25 PM	35:00	5.14 pH	18.70 °C	160.49 µS/cm	0.26 mg/L	0.50 NTU	102.0 mV	22.10 ft	125.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/23/2024 11:35:38 AM
Project: Plant McIntosh LF3
Operator Name: Hunter Auld

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: 17.66 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 29 ft** **Estimated Total Volume Pumped: 4.4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 19.7 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1210 on 1-23-24. Cloudy, 60s.

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	
1/23/2024 11:35 AM	00:00	5.68 pH	18.16 °C	0.00 µS/cm	9.53 mg/L	5.00 NTU	72.7 mV	17.66 ft	150.00 ml/min
1/23/2024 11:40 AM	05:00	5.68 pH	18.20 °C	0.00 µS/cm	9.52 mg/L	5.00 NTU	75.4 mV	17.66 ft	150.00 ml/min
1/23/2024 11:45 AM	10:00	4.72 pH	18.52 °C	110.57 µS/cm	0.60 mg/L	2.80 NTU	128.4 mV	18.50 ft	200.00 ml/min
1/23/2024 11:50 AM	15:00	4.69 pH	18.70 °C	111.57 µS/cm	0.35 mg/L	5.40 NTU	128.1 mV	18.90 ft	175.00 ml/min
1/23/2024 11:55 AM	20:00	4.67 pH	18.44 °C	112.25 µS/cm	0.41 mg/L	6.90 NTU	128.5 mV	19.00 ft	100.00 ml/min
1/23/2024 12:00 PM	25:00	4.66 pH	18.52 °C	113.02 µS/cm	0.38 mg/L	4.90 NTU	128.4 mV	19.10 ft	100.00 ml/min
1/23/2024 12:05 PM	30:00	4.65 pH	18.52 °C	113.42 µS/cm	0.38 mg/L	4.90 NTU	128.5 mV	19.20 ft	100.00 ml/min
1/23/2024 12:10 PM	35:00	4.65 pH	18.61 °C	114.05 µS/cm	0.37 mg/L	4.80 NTU	128.5 mV	19.30 ft	100.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/23/2024 10:30:13 AM
Project: Plant McIntosh LF3
Operator Name: Hunter Auld

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: 17.69 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: 1.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 50 ml/min** **Final Draw Down: 15.7 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1100 on 1-23-24. Cloudy, 59.

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	
1/23/2024 10:30 AM	00:00	4.91 pH	16.11 °C	0.21 µS/cm	9.86 mg/L	5.00 NTU	131.1 mV	17.69 ft	50.00 ml/min
1/23/2024 10:35 AM	05:00	5.00 pH	16.58 °C	40.77 µS/cm	5.67 mg/L	1.40 NTU	112.8 mV	18.30 ft	50.00 ml/min
1/23/2024 10:40 AM	10:00	5.01 pH	17.54 °C	40.21 µS/cm	5.42 mg/L	1.00 NTU	109.3 mV	18.60 ft	50.00 ml/min
1/23/2024 10:45 AM	15:00	5.00 pH	17.72 °C	40.28 µS/cm	5.31 mg/L	1.50 NTU	108.8 mV	18.70 ft	50.00 ml/min
1/23/2024 10:50 AM	20:00	4.98 pH	17.90 °C	40.59 µS/cm	5.14 mg/L	1.80 NTU	108.4 mV	18.80 ft	50.00 ml/min
1/23/2024 10:55 AM	25:00	4.98 pH	18.12 °C	40.49 µS/cm	5.13 mg/L	1.50 NTU	108.4 mV	18.90 ft	50.00 ml/min
1/23/2024 11:00 AM	30:00	4.98 pH	18.03 °C	40.42 µS/cm	4.99 mg/L	1.35 NTU	108.8 mV	19.00 ft	50.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/22/2024 4:24:56 PM
Project: Plant McIntosh LF3
Operator Name: Hunter Auld

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: 16.87 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 28 ft** **Estimated Total Volume Pumped: 12 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 133.6 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Well purged dry. Allow over night 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	
1/22/2024 4:24 PM	00:00	6.23 pH	13.31 °C	18.50 µS/cm	10.58 mg/L	5.00 NTU	262.2 mV	16.87 ft	50.00 ml/min
1/22/2024 4:29 PM	05:00	4.65 pH	17.19 °C	90.26 µS/cm	3.18 mg/L	16.00 NTU	122.9 mV	17.90 ft	125.00 ml/min
1/22/2024 4:34 PM	10:00	4.51 pH	17.98 °C	87.83 µS/cm	3.90 mg/L	13.30 NTU	114.9 mV	18.90 ft	125.00 ml/min
1/22/2024 4:39 PM	15:00	4.53 pH	17.85 °C	87.48 µS/cm	3.56 mg/L	8.70 NTU	113.5 mV	19.30 ft	50.00 ml/min
1/22/2024 4:44 PM	20:00	4.52 pH	17.65 °C	87.44 µS/cm	3.94 mg/L	7.10 NTU	113.2 mV	19.60 ft	50.00 ml/min
1/22/2024 4:49 PM	25:00	4.52 pH	17.39 °C	87.31 µS/cm	3.80 mg/L	8.80 NTU	113.3 mV	20.00 ft	50.00 ml/min
1/22/2024 4:54 PM	30:00	4.50 pH	18.34 °C	88.42 µS/cm	3.78 mg/L	10.70 NTU	112.2 mV	21.50 ft	250.00 ml/min
1/22/2024 4:59 PM	35:00	4.52 pH	18.72 °C	87.92 µS/cm	3.11 mg/L	29.50 NTU	112.6 mV	23.00 ft	250.00 ml/min
1/22/2024 5:04 PM	40:00	4.49 pH	18.74 °C	86.83 µS/cm	3.23 mg/L	29.10 NTU	114.8 mV	24.50 ft	250.00 ml/min
1/22/2024 5:09 PM	45:00	4.51 pH	18.80 °C	85.38 µS/cm	2.40 mg/L	82.00 NTU	115.5 mV	25.50 ft	250.00 ml/min
1/22/2024 5:14 PM	50:00	4.59 pH	18.70 °C	86.11 µS/cm	0.98 mg/L	54.20 NTU	117.2 mV	26.50 ft	250.00 ml/min
1/22/2024 5:19 PM	55:00	4.61 pH	18.65 °C	85.52 µS/cm	0.85 mg/L	39.20 NTU	116.8 mV	28.00 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/23/2024 9:37:58 AM
Project: Plant McIntosh LF3
Operator Name: Hunter Auld

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: 16.87 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 28 ft** **Estimated Total Volume Pumped: 0.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 50 ml/min** **Final Draw Down: 19.4 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 0953. Cloudy, 50s. Well purged dry 1-22-24. Sampled 1-23-24.

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	
1/23/2024 9:37 AM	00:00	8.32 pH	14.81 °C	23.31 µS/cm	10.33 mg/L	5.00 NTU	263.6 mV	16.87 ft	50.00 ml/min
1/23/2024 9:42 AM	05:00	6.85 pH	15.62 °C	112.22 µS/cm	3.51 mg/L	31.00 NTU	128.4 mV	17.50 ft	50.00 ml/min
1/23/2024 9:47 AM	10:00	4.84 pH	16.87 °C	90.54 µS/cm	4.25 mg/L	12.30 NTU	117.3 mV	18.00 ft	50.00 ml/min
1/23/2024 9:52 AM	15:00	4.66 pH	17.19 °C	89.03 µS/cm	5.96 mg/L	8.90 NTU	112.2 mV	18.50 ft	50.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/23/2024 9:50:18 AM
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: 24.48 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 5.8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 130 ml/min** **Final Draw Down: 12 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Cloudy, sample time-1035

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	
1/23/2024 9:50 AM	00:00	6.91 pH	15.15 °C	0.00 µS/cm	10.29 mg/L	2.89 NTU	116.4 mV	24.48 ft	130.00 ml/min
1/23/2024 9:55 AM	05:00	5.48 pH	16.71 °C	107.81 µS/cm	1.41 mg/L	3.10 NTU	56.9 mV	25.10 ft	130.00 ml/min
1/23/2024 10:00 AM	10:00	5.34 pH	18.46 °C	101.05 µS/cm	0.39 mg/L	2.70 NTU	-5.0 mV	25.30 ft	130.00 ml/min
1/23/2024 10:05 AM	15:00	5.38 pH	18.59 °C	100.46 µS/cm	0.21 mg/L	1.41 NTU	-19.2 mV	25.50 ft	130.00 ml/min
1/23/2024 10:10 AM	20:00	5.38 pH	18.51 °C	101.34 µS/cm	0.17 mg/L	2.09 NTU	-10.9 mV	25.50 ft	130.00 ml/min
1/23/2024 10:15 AM	25:00	5.34 pH	18.47 °C	104.06 µS/cm	0.14 mg/L	2.21 NTU	-21.3 mV	25.50 ft	130.00 ml/min
1/23/2024 10:20 AM	30:00	5.16 pH	18.55 °C	117.52 µS/cm	0.13 mg/L	2.22 NTU	4.4 mV	25.50 ft	130.00 ml/min
1/23/2024 10:25 AM	35:00	5.04 pH	18.59 °C	126.39 µS/cm	0.12 mg/L	1.72 NTU	23.0 mV	25.50 ft	130.00 ml/min
1/23/2024 10:30 AM	40:00	5.01 pH	18.50 °C	128.70 µS/cm	0.12 mg/L	1.90 NTU	33.5 mV	25.50 ft	130.00 ml/min
1/23/2024 10:35 AM	45:00	5.01 pH	18.48 °C	129.02 µS/cm	0.12 mg/L	2.05 NTU	38.2 mV	25.50 ft	130.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/23/2024 3:11:44 PM
Project: Plant McIntosh LF3
Operator Name: Hunter Auld

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: 23.46 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 3.8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 10.1 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1536 on 1-23-24. Cloudy 60s. EB-11 here at 1520.

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	
1/23/2024 3:11 PM	00:00	5.31 pH	18.81 °C	37.06 µS/cm	9.36 mg/L	5.00 NTU	109.6 mV	23.46 ft	150.00 ml/min
1/23/2024 3:16 PM	05:00	4.53 pH	18.94 °C	80.01 µS/cm	0.48 mg/L	1.10 NTU	101.2 mV	24.20 ft	150.00 ml/min
1/23/2024 3:21 PM	10:00	4.53 pH	18.97 °C	79.58 µS/cm	0.43 mg/L	0.40 NTU	101.3 mV	24.20 ft	150.00 ml/min
1/23/2024 3:26 PM	15:00	4.53 pH	19.03 °C	79.92 µS/cm	0.42 mg/L	0.80 NTU	100.1 mV	24.20 ft	150.00 ml/min
1/23/2024 3:31 PM	20:00	4.54 pH	19.27 °C	80.84 µS/cm	0.43 mg/L	0.50 NTU	100.7 mV	24.30 ft	150.00 ml/min
1/23/2024 3:36 PM	25:00	4.55 pH	19.31 °C	81.47 µS/cm	0.43 mg/L	0.30 NTU	100.9 mV	24.30 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/23/2024 4:10:31 PM
Project: Plant McIntosh LF3
Operator Name: Hunter Auld

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: 21.64 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: 0.7 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1635 on 1-23-24. Cloudy 60s. 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	
1/23/2024 4:10 PM	00:00	5.02 pH	18.46 °C	45.01 µS/cm	5.75 mg/L	5.00 NTU	111.1 mV	21.64 ft	200.00 ml/min
1/23/2024 4:15 PM	05:00	5.01 pH	20.22 °C	44.06 µS/cm	0.31 mg/L	7.80 NTU	105.2 mV	21.70 ft	200.00 ml/min
1/23/2024 4:20 PM	10:00	5.00 pH	20.32 °C	43.90 µS/cm	0.30 mg/L	7.40 NTU	105.0 mV	21.70 ft	200.00 ml/min
1/23/2024 4:25 PM	15:00	4.98 pH	20.27 °C	43.56 µS/cm	0.23 mg/L	5.10 NTU	105.7 mV	21.70 ft	200.00 ml/min
1/23/2024 4:30 PM	20:00	4.96 pH	20.30 °C	43.21 µS/cm	0.21 mg/L	2.80 NTU	105.3 mV	21.70 ft	200.00 ml/min
1/23/2024 4:35 PM	25:00	4.96 pH	20.26 °C	43.16 µS/cm	0.22 mg/L	2.10 NTU	105.4 mV	21.70 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/23/2024 3:16:00 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: 23.78 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 32 ft** **Estimated Total Volume Pumped: 4.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 6.2 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Cloudy, sample time-1546, 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	+/- 5	
1/23/2024 3:16 PM	00:00	5.33 pH	18.95 °C	0.00 µS/cm	9.05 mg/L	6.89 NTU	50.5 mV	23.78 ft	150.00 ml/min
1/23/2024 3:21 PM	05:00	4.69 pH	19.66 °C	19.93 µS/cm	0.78 mg/L	7.05 NTU	109.2 mV	24.10 ft	150.00 ml/min
1/23/2024 3:26 PM	10:00	4.66 pH	20.15 °C	19.56 µS/cm	0.42 mg/L	5.81 NTU	121.0 mV	24.30 ft	150.00 ml/min
1/23/2024 3:31 PM	15:00	4.66 pH	20.09 °C	19.46 µS/cm	0.26 mg/L	4.49 NTU	99.0 mV	24.30 ft	150.00 ml/min
1/23/2024 3:36 PM	20:00	4.65 pH	20.19 °C	19.44 µS/cm	0.22 mg/L	2.75 NTU	111.7 mV	24.30 ft	150.00 ml/min
1/23/2024 3:41 PM	25:00	4.63 pH	20.31 °C	19.26 µS/cm	0.20 mg/L	1.04 NTU	97.4 mV	24.30 ft	150.00 ml/min
1/23/2024 3:46 PM	30:00	4.64 pH	20.33 °C	19.21 µS/cm	0.18 mg/L	1.22 NTU	91.1 mV	24.30 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/23/2024 2:05:17 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: 25.22 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 37 ft** **Estimated Total Volume Pumped: 5.2 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 4.5 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Cloudy, sample time-1440, 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	+/- 5	
1/23/2024 2:05 PM	00:00	6.77 pH	18.59 °C	0.00 µS/cm	9.49 mg/L	0.99 NTU	66.0 mV	25.22 ft	150.00 ml/min
1/23/2024 2:10 PM	05:00	4.82 pH	19.39 °C	27.85 µS/cm	0.73 mg/L	0.72 NTU	120.4 mV	25.50 ft	150.00 ml/min
1/23/2024 2:15 PM	10:00	4.77 pH	19.70 °C	27.81 µS/cm	1.31 mg/L	1.14 NTU	105.0 mV	25.60 ft	150.00 ml/min
1/23/2024 2:20 PM	15:00	4.77 pH	19.74 °C	27.74 µS/cm	1.09 mg/L	0.83 NTU	104.6 mV	25.60 ft	150.00 ml/min
1/23/2024 2:25 PM	20:00	4.77 pH	19.75 °C	27.73 µS/cm	1.22 mg/L	1.99 NTU	79.5 mV	25.60 ft	150.00 ml/min
1/23/2024 2:30 PM	25:00	4.78 pH	19.75 °C	27.73 µS/cm	1.15 mg/L	1.35 NTU	69.5 mV	25.60 ft	150.00 ml/min
1/23/2024 2:35 PM	30:00	4.79 pH	19.71 °C	27.99 µS/cm	1.08 mg/L	0.89 NTU	61.1 mV	25.60 ft	150.00 ml/min
1/23/2024 2:40 PM	35:00	4.80 pH	19.70 °C	28.00 µS/cm	1.01 mg/L	1.09 NTU	59.0 mV	25.60 ft	150.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/23/2024 2:12:16 PM
Project: Plant McIntosh LF3
Operator Name: Hunter Auld

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: 25.23 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: Poly** **Tubing Inner Diameter: 0.17 in** **Pump Intake From TOC: 37 ft** **Estimated Total Volume Pumped: 3.8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 6.8 in**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965658**

Test Notes:
Sampled at 1437 on 1-23-24. Cloudy 60s. FB-09 here at 1430.

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	
1/23/2024 2:12 PM	00:00	5.54 pH	17.99 °C	67.70 µS/cm	6.83 mg/L	5.00 NTU	105.1 mV	25.23 ft	200.00 ml/min
1/23/2024 2:17 PM	05:00	5.33 pH	19.10 °C	67.34 µS/cm	0.36 mg/L	3.00 NTU	99.0 mV	25.80 ft	150.00 ml/min
1/23/2024 2:22 PM	10:00	5.32 pH	19.18 °C	67.11 µS/cm	0.27 mg/L	3.00 NTU	98.7 mV	25.80 ft	150.00 ml/min
1/23/2024 2:27 PM	15:00	5.32 pH	19.26 °C	66.67 µS/cm	0.24 mg/L	2.00 NTU	98.1 mV	25.80 ft	150.00 ml/min
1/23/2024 2:32 PM	20:00	5.32 pH	19.26 °C	66.31 µS/cm	0.22 mg/L	2.10 NTU	98.0 mV	25.80 ft	150.00 ml/min
1/23/2024 2:37 PM	25:00	5.32 pH	19.32 °C	66.09 µS/cm	0.21 mg/L	1.50 NTU	97.9 mV	25.80 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: McIntosh LF 3 Date: 1-22-24

Calibrated By: H. Auld Field Conditions: Cloudy, 50s

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	965658
Turbidity Meter	HACH 2100Q	22080D000803

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	NA	—	—
pH (SU)	4.00	36C916	03/25	Pine
pH (SU)	7.00	36D1214	04/25	↓
pH (SU)	10.00	36D200	04/25	↓
Specific Conductance (µS/cm)	1,413	36G1006	07/24	↓
ORP (mV)	240.0	36I0291	06/24	↓

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	NA	—	—
	10	A3139	08/24	HACH
	20	A3144	09/24	↓
	100	A3142	08/24	↓

Calibration					
Time Start: 1545		**Time Finish:** 1615			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	98.5	13.6	± 10%	EPA 2023
pH (SU)	4.00	3.94	14.7	± 0.1	GWMP
pH (SU)	7.00	7.07	14.6	± 0.1	GWMP
pH (SU)	10.00	10.14	13.2	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1470	13.6	± 10% of standard	NA
ORP (mV)	240.0	244	13.5	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.3	± 10% of standard	EPA 2023
	10	10.4		
	20	19.7		
	100	100		

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	NA		± 0.1	GWMP
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023

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

Notes:

Field Instrumentation Calibration Form

Atlantic Coast Consulting, Inc.

Site Name: McIntosh LF3 Date: 1-23-24

Calibrated By: H. Auld Field Conditions: cloudy, 50s → 60s

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	965658
Turbidity Meter	HACH 2100Q	22080D000803

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
D.O. (%)	N/A	NA	—	—
pH (SU)	4.00	36C916	03/25	Pine
pH (SU)	7.00	36D104	04/25	↓
pH (SU)	10.00	36D200	04/25	↓
Specific Conductance (µS/cm)	1,413	36610616	07/24	↓
ORP (mV)	240.0	36I0291	06/24	↓

	Standard	**Lot #**	**Date of Expiration**	**Brand**
Turbidity (NTU)	0	NA	—	
	10	A3139	08/24	
	20	A3144	09/24	
	100	A3142	08/24	

Calibration					
Time Start: 0830		**Time Finish:** 0900			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.8	14.7	± 10%	EPA 2023
pH (SU)	4.00	3.97	14.7	± 0.1	GWMP
pH (SU)	7.00	7.06	14.6	± 0.1	GWMP
pH (SU)	10.00	10.02	14.6	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1406	14.6	± 10% of standard	NA
ORP (mV)	240.0	236	14.7	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	~~NA~~ 0.3	± 10% of standard	EPA 2023
	10	~~A3139~~ 9.9		
	20	~~A3144~~ 19.7		
	100	~~A3142~~ 99		

Calibration Check					
Time Start 1220		**Time Finish** 1230			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.08	16.7	± 0.1	GWMP
pH (SU)	7.00	6.93	15.9	± 0.1	GWMP
pH (SU)	10.00	9.96	15.6	± 0.1	GWMP
Specific Conductance (µS/cm)	1,413	1416	15.5	± 10% of standard	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.3	± 10% of standard	EPA 2023
	10	9.97		
	20	20.2		
	100	101		

Notes:

Field Instrumentation Calibration Form

ATLANTIC COAST CONSULTING, INC.

Site Name: Plant McIntosh LF3 Date: 1/23/24

Calibrated By: J. Bessford Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	~~Aquatroll~~ Solinst	850762
Turbidity Meter	~~Aquatroll~~ HACH 2100Q	22080D001122

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
D.O. (%)	N/A	DI 1/20	—	—
pH (SU)	4.00	36C916	3/24	Pine
pH (SU)	7.00	36D1214	4/25	Pine
pH (SU)	10.00	26H903	8/24	Pine
Specific Conductance (µS/cm)	1,413	3661066	7/24	Pine
ORP (mV)	240.0	3660038	4/24	Pine

	Standard	Lot #	Date of Expiration	Brand
Turbidity (NTU)	0	~~A3139~~ NA	~~8/24~~ DI 1/20	—
	10	A3139	8/24	HACH
	20	A3138	8/24	HACH
	100	A3139	8/24	HACH

Calibration					
Time Start: 0409		Time Finish: 0422			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	93.8	14.6	± 10%	EPA 2023
pH (SU)	4.00	4.00	15.90	± 0.1	GWMP
pH (SU)	7.00	7.04	16.00	± 0.1	GWMP
pH (SU)	10.00	10.11	15.98	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 1284	1286	15.87	± 10% of standard	NA
ORP (mV)	240.0	240.7	15.76	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.22	± 10% of standard	EPA 2023
	10	10.1		
	20	20.2		
	100	98		

Calibration Check					
Time Start 1327		Time Finish 1334			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
pH (SU)	4.00	4.07	18.8	± 0.1	GWMP
pH (SU)	7.00	7.05	20.0	± 0.1	GWMP
pH (SU)	10.00	9.95	19.4	± 0.1	GWMP
Specific Conductance (µS/cm)	~~1,413~~ 1284	1307	19.7	± 10% of standard	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.19	± 10% of standard	EPA 2023
	10	10.1		
	20	19.8		
	100	101		

Notes:

Well Inspection

Site Name: Plant Mcintosh LF3

Date: 1/22/2024

Permit Number: 051-008D(CCR)

Field Conditions: 60 °F

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
GWA-1B	Yes	Yes	No	Yes
GWA-2B	Yes	Yes	No	Yes
GWA-3A	Yes	Yes	No	Yes
GWA-4	Yes	Yes	No	Yes
GWA-5	Yes	Yes	No	Yes
GWA-7A	Yes	Yes	No	Yes
GWC-1A	Yes	Yes	No	Yes
GWC-2	Yes	Yes	No	Yes
GWC-4A	Yes	Yes	No	Yes
GWC-5A	Yes	Yes	No	Yes
GWC-6A	Yes	Yes	No	Yes
PZ-1	Yes	Yes	No	Yes
PZ-2	Yes	Yes	No	Yes
PZ-3	Yes	Yes	No	Yes
PZ-4	Yes	Yes	No	Yes
PZ-5	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Mcintosh LF3

Date: 1/22/2024

Permit Number: 051-008D(CCR)

Field Conditions: 60 °F

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
GWA-1B	Yes	Yes	Yes	Yes	Yes
GWA-2B	Yes	Yes	Yes	Yes	Yes
GWA-3A	Yes	Yes	Yes	Yes	Yes
GWA-4	Yes	Yes	Yes	Yes	Yes
GWA-5	Yes	Yes	Yes	Yes	Yes
GWA-7A	Yes	Yes	Yes	Yes	Yes
GWC-1A	Yes	Yes	Yes	Yes	Yes
GWC-2	Yes	Yes	Yes	Yes	Yes
GWC-4A	Yes	Yes	Yes	Yes	Yes
GWC-5A	Yes	Yes	Yes	Yes	Yes
GWC-6A	Yes	Yes	Yes	Yes	Yes
PZ-1	Yes	Yes	Yes	Yes	Yes
PZ-2	Yes	Yes	Yes	Yes	Yes
PZ-3	Yes	Yes	Yes	Yes	Yes
PZ-4	Yes	Yes	Yes	Yes	Yes
PZ-5	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mcintosh LF3 Date: 1/22/2024

Permit Number: 051-008D(CCR) Field Conditions: 60 °F

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
GWA-1B	Yes	Yes	Yes	Yes	Yes	Yes
GWA-2B	Yes	Yes	Yes	Yes	Yes	Yes
GWA-3A	Yes	Yes	Yes	Yes	Yes	Yes
GWA-4	Yes	Yes	Yes	Yes	Yes	Yes
GWA-5	Yes	Yes	Yes	Yes	Yes	Yes
GWA-7A	Yes	Yes	Yes	Yes	Yes	Yes
GWC-1A	Yes	Yes	Yes	Yes	Yes	Yes
GWC-2	Yes	Yes	Yes	Yes	Yes	Yes
GWC-4A	Yes	Yes	Yes	Yes	Yes	Yes
GWC-5A	Yes	Yes	Yes	Yes	Yes	Yes
GWC-6A	Yes	Yes	Yes	Yes	Yes	Yes
PZ-1	Yes	Yes	Yes	Yes	Yes	Yes
PZ-2	Yes	Yes	Yes	Yes	Yes	Yes
PZ-3	Yes	Yes	Yes	Yes	Yes	Yes
PZ-4	Yes	Yes	Yes	Yes	Yes	Yes
PZ-5	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Mcintosh LF3

Date: 1/22/2024

Permit Number: 051-008D(CCR)

Field Conditions: 60 °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	
PZ-2	
PZ-3	
PZ-4	
PZ-5	

APPENDIX B

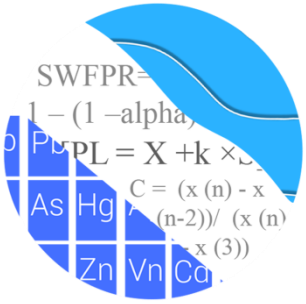
STATISTICAL ANALYSIS REPORTS

APPENDIX B

Statistical Analysis Reports
August 2023 Monitoring Event

GROUNDWATER STATS CONSULTING

February 28, 2024



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 2023 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 2023 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. While data from upgradient well GWA-1A continues to be included in construction of interwell prediction limits since the data represents historical groundwater quality upgradient of the facility, downgradient wells GWC-1, GWC-5, and GWC-6 are not included in the analysis.

A minimum of 8 samples have been collected at each of the existing wells. New upgradient well GWA-1B and new 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 downgradient wells GWC-1A, GWC-5A, and GWC-6A are included on all 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 the Fall 2017 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 will be 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 with 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 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

Based on the earlier evaluation discussed above, the following methods were selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Interwell prediction limits, combined with a 1-of-2 resample plan for barium, beryllium, chromium, cobalt, copper, lead, vanadium, and zinc

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 are similar to those historically reported in upgradient well GWA-5, no adjustments were required at this time.

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 Appendix III Parameters – August 2023

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).

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 2023 (Figure D). Data from upgradient wells were screened for new outliers, and no additional measurements were flagged. The reported measurement of 0.51 mg/L for fluoride in upgradient well GWA-1B during the August 2022 sample event was slightly higher than historical measurements but well below the Groundwater Protection Standard of 4.0 mg/L. This measurement was not identified as a statistical outlier and was not flagged in the database. 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

While this step was not required during this analysis, when data from downgradient well/constituent pairs are found to exceed their respective prediction limit, however, 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 2023

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 2023 (Figure E). 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

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 9/28/2023 5:43 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

Interwell Prediction Limits Appendix I - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 9/29/2023, 3:36 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	8/29/2023	0.24	No	254	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	8/29/2023	0.065	No	254	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	8/29/2023	0.032	No	254	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	8/29/2023	0.076	No	254	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	8/29/2023	0.079	No	254	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	8/29/2023	0.00038J	No	255	n/a	n/a	68.24	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-2	0.0036	n/a	8/29/2023	0.00031J	No	255	n/a	n/a	68.24	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-4A	0.0036	n/a	8/29/2023	0.0025ND	No	255	n/a	n/a	68.24	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-5A	0.0036	n/a	8/29/2023	0.00031J	No	255	n/a	n/a	68.24	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-6A	0.0036	n/a	8/29/2023	0.00026J	No	255	n/a	n/a	68.24	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1A	0.032	n/a	8/29/2023	0.002ND	No	253	n/a	n/a	50.99	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.032	n/a	8/29/2023	0.0037	No	253	n/a	n/a	50.99	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-4A	0.032	n/a	8/29/2023	0.002ND	No	253	n/a	n/a	50.99	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-5A	0.032	n/a	8/29/2023	0.002ND	No	253	n/a	n/a	50.99	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-6A	0.032	n/a	8/29/2023	0.0013J	No	253	n/a	n/a	50.99	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-1A	0.0072	n/a	8/29/2023	0.0047	No	253	n/a	n/a	49.01	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-2	0.0072	n/a	8/29/2023	0.0014J	No	253	n/a	n/a	49.01	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-4A	0.0072	n/a	8/29/2023	0.00045J	No	253	n/a	n/a	49.01	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-5A	0.0072	n/a	8/29/2023	0.0023J	No	253	n/a	n/a	49.01	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-6A	0.0072	n/a	8/29/2023	0.00099J	No	253	n/a	n/a	49.01	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Copper (mg/L)	GWC-1A	0.008	n/a	8/29/2023	0.002ND	No	234	n/a	n/a	79.91	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-2	0.008	n/a	8/29/2023	0.002ND	No	234	n/a	n/a	79.91	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1A	0.016	n/a	8/29/2023	0.001ND	No	254	n/a	n/a	81.5	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.016	n/a	8/29/2023	0.001ND	No	254	n/a	n/a	81.5	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-5A	0.016	n/a	8/29/2023	0.001ND	No	254	n/a	n/a	81.5	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-6A	0.016	n/a	8/29/2023	0.00038J	No	254	n/a	n/a	81.5	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1A	0.055	n/a	8/29/2023	0.002ND	No	237	n/a	n/a	75.53	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.055	n/a	8/29/2023	0.002ND	No	237	n/a	n/a	75.53	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-4A	0.055	n/a	8/29/2023	0.002ND	No	237	n/a	n/a	75.53	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWC-1A	0.074	n/a	8/29/2023	0.017	No	237	n/a	n/a	24.89	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.074	n/a	8/29/2023	0.0065	No	237	n/a	n/a	24.89	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-4A	0.074	n/a	8/29/2023	0.004J	No	237	n/a	n/a	24.89	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-5A	0.074	n/a	8/29/2023	0.01	No	237	n/a	n/a	24.89	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-6A	0.074	n/a	8/29/2023	0.008	No	237	n/a	n/a	24.89	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

Interwell Prediction Limits Appendix III - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 9/28/2023, 5:38 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	8/29/2023	0.042J	No	108	n/a	n/a	37.96	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	1.9	n/a	8/29/2023	0.1	No	108	n/a	n/a	37.96	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4A	1.9	n/a	8/29/2023	0.08ND	No	108	n/a	n/a	37.96	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-5A	1.9	n/a	8/29/2023	0.08ND	No	108	n/a	n/a	37.96	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6A	1.9	n/a	8/29/2023	0.033J	No	108	n/a	n/a	37.96	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1A	20	n/a	8/29/2023	2.5	No	107	n/a	n/a	0	n/a	n/a	0.000173	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	20	n/a	8/29/2023	1.6	No	107	n/a	n/a	0	n/a	n/a	0.000173	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4A	20	n/a	8/29/2023	0.37J	No	107	n/a	n/a	0	n/a	n/a	0.000173	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5A	20	n/a	8/29/2023	1.1	No	107	n/a	n/a	0	n/a	n/a	0.000173	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6A	20	n/a	8/29/2023	3.2	No	107	n/a	n/a	0	n/a	n/a	0.000173	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1A	30	n/a	8/29/2023	13	No	108	n/a	n/a	0	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	30	n/a	8/29/2023	4.8	No	108	n/a	n/a	0	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4A	30	n/a	8/29/2023	4.1	No	108	n/a	n/a	0	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5A	30	n/a	8/29/2023	5.2	No	108	n/a	n/a	0	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6A	30	n/a	8/29/2023	9.5	No	108	n/a	n/a	0	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1A	0.51	n/a	8/29/2023	0.08J	No	108	n/a	n/a	55.56	n/a	n/a	0.0001701	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-2	0.51	n/a	8/29/2023	0.1ND	No	108	n/a	n/a	55.56	n/a	n/a	0.0001701	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-4A	0.51	n/a	8/29/2023	0.1ND	No	108	n/a	n/a	55.56	n/a	n/a	0.0001701	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-5A	0.51	n/a	8/29/2023	0.1ND	No	108	n/a	n/a	55.56	n/a	n/a	0.0001701	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6A	0.51	n/a	8/29/2023	0.1ND	No	108	n/a	n/a	55.56	n/a	n/a	0.0001701	NP Inter (NDs) 1 of 2
pH (S.U.)	GWC-1A	5.903	4.063	8/29/2023	4.25	No	188	2.223	0.1157	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-2	5.903	4.063	8/29/2023	4.63	No	188	2.223	0.1157	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-4A	5.903	4.063	8/29/2023	4.39	No	188	2.223	0.1157	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-5A	5.903	4.063	8/29/2023	4.6	No	188	2.223	0.1157	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-6A	5.903	4.063	8/29/2023	4.96	No	188	2.223	0.1157	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
Sulfate (mg/L)	GWC-1A	110	n/a	8/29/2023	0.4J	No	108	n/a	n/a	27.78	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	110	n/a	8/29/2023	5.2	No	108	n/a	n/a	27.78	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4A	110	n/a	8/29/2023	0.57J	No	108	n/a	n/a	27.78	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5A	110	n/a	8/29/2023	0.48J	No	108	n/a	n/a	27.78	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6A	110	n/a	8/29/2023	2.7	No	108	n/a	n/a	27.78	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-1A	166.8	n/a	8/29/2023	53	No	107	7.871	2.796	1.869	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-2	166.8	n/a	8/29/2023	45	No	107	7.871	2.796	1.869	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-4A	166.8	n/a	8/29/2023	21	No	107	7.871	2.796	1.869	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-5A	166.8	n/a	8/29/2023	36	No	107	7.871	2.796	1.869	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-6A	166.8	n/a	8/29/2023	76	No	107	7.871	2.796	1.869	None	sqrt(x)	0.001504	Param Inter 1 of 2

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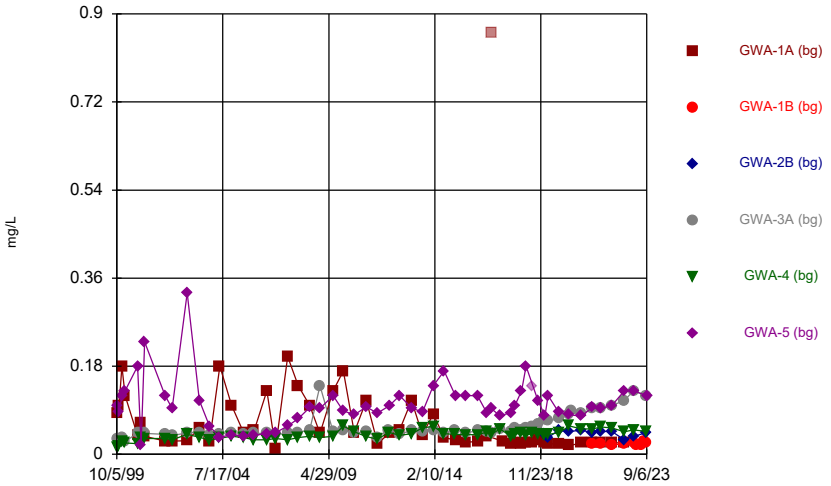
FIGURE A.

Sanitas™ v.10.0.10 . UG

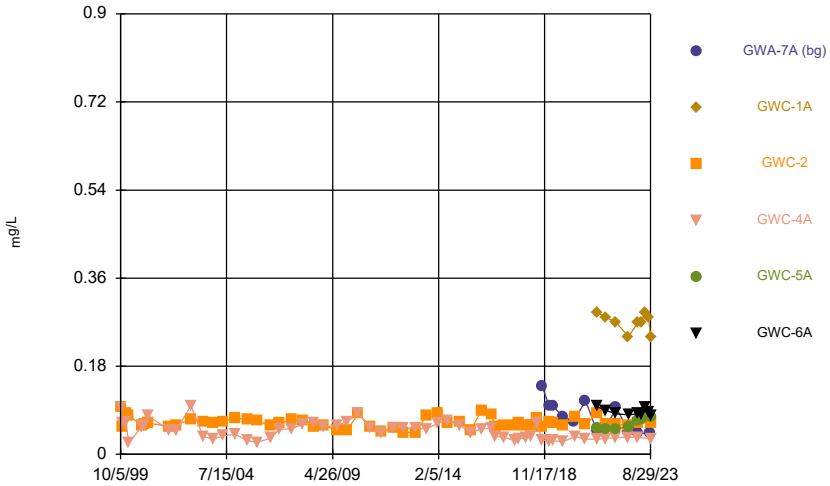
Time Series



Constituent: Barium Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

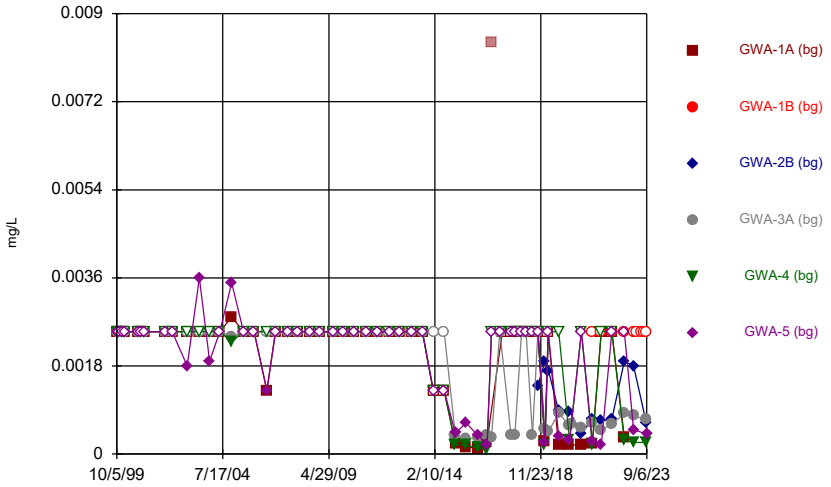
Time Series



Constituent: Barium Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

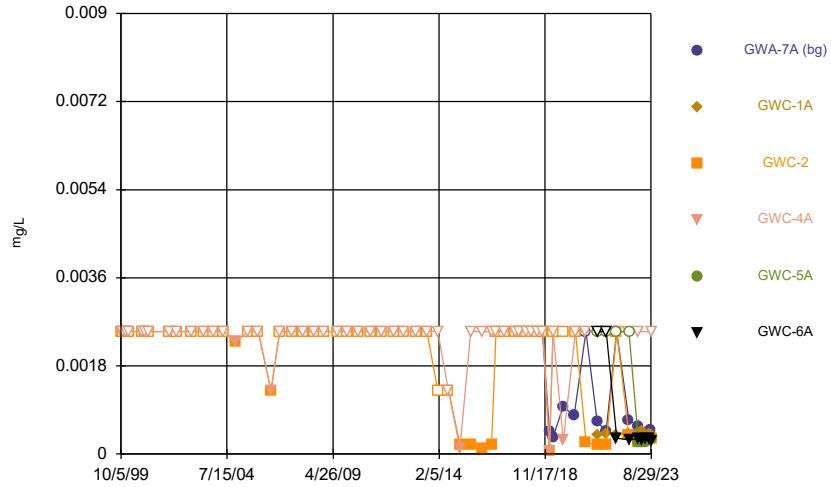
Time Series



Constituent: Beryllium Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

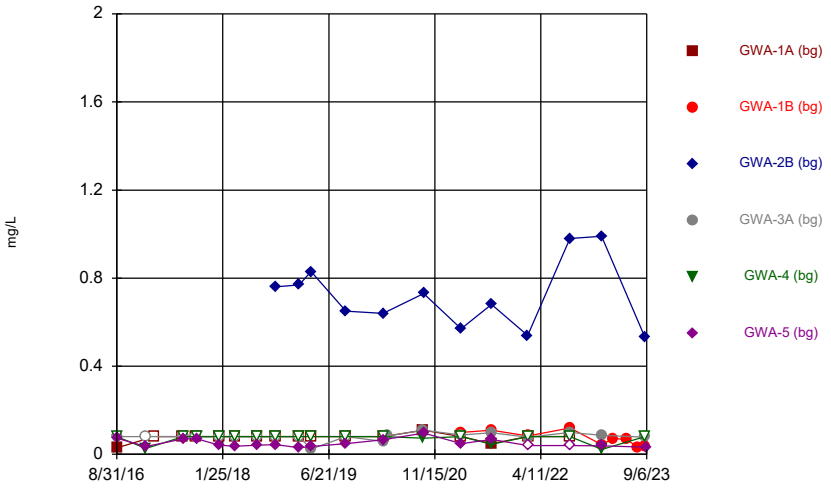
Time Series



Constituent: Beryllium Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

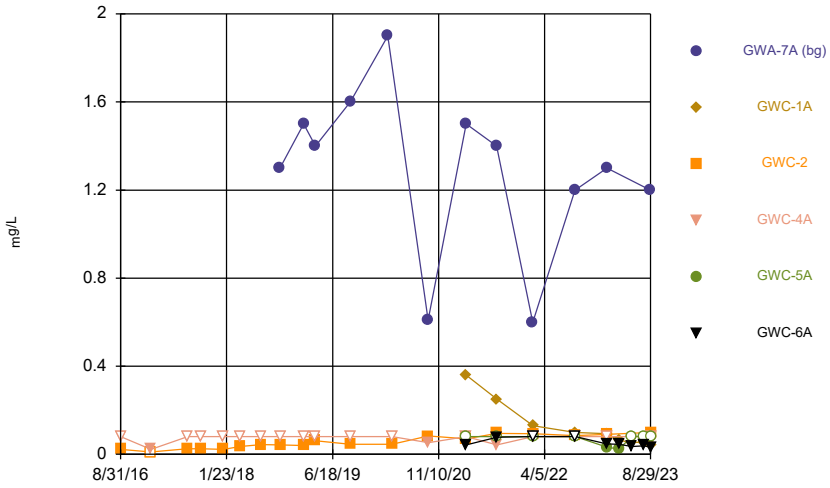
Time Series



Constituent: Boron Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

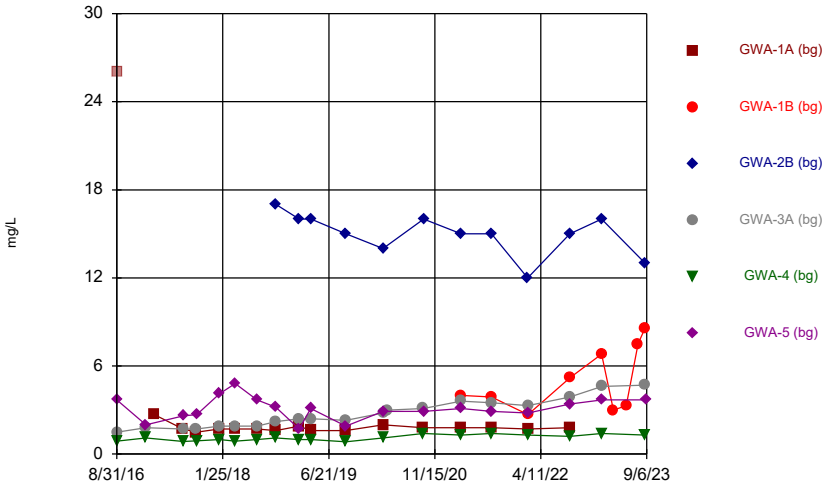
Time Series



Constituent: Boron Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

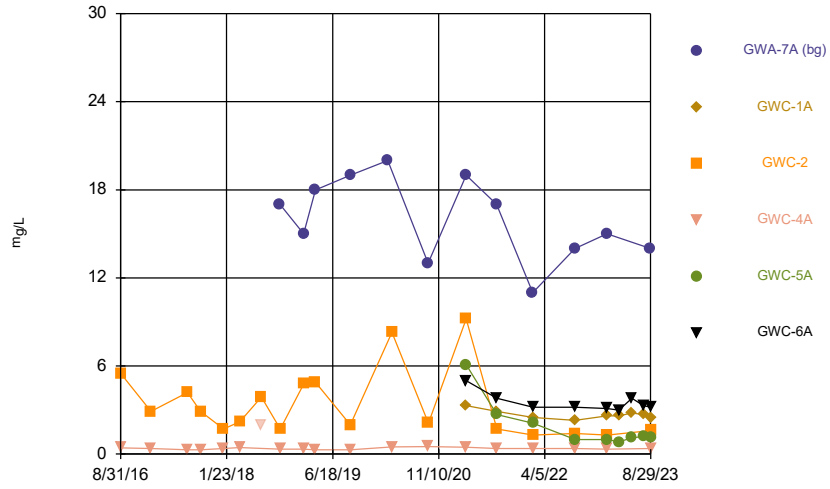
Time Series



Constituent: Calcium Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

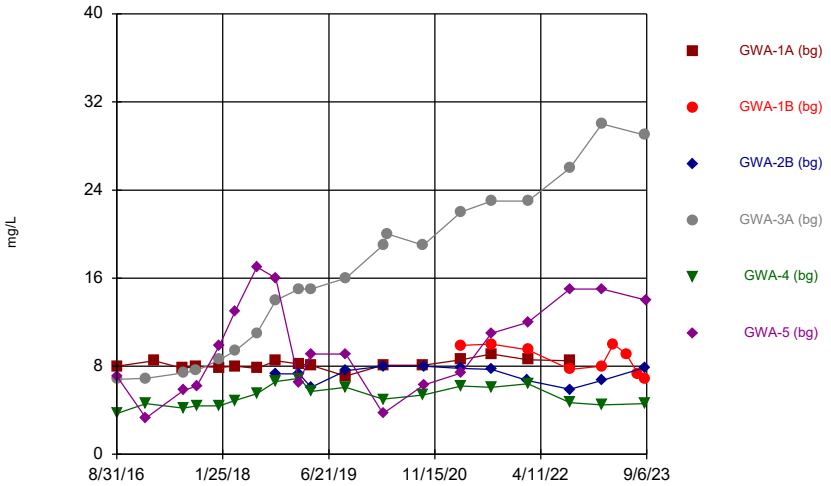
Time Series



Constituent: Calcium Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

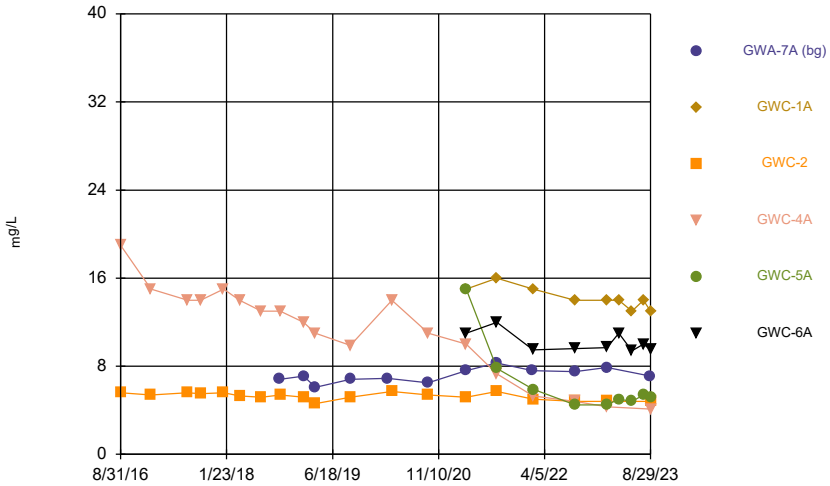
Time Series



Constituent: Chloride Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

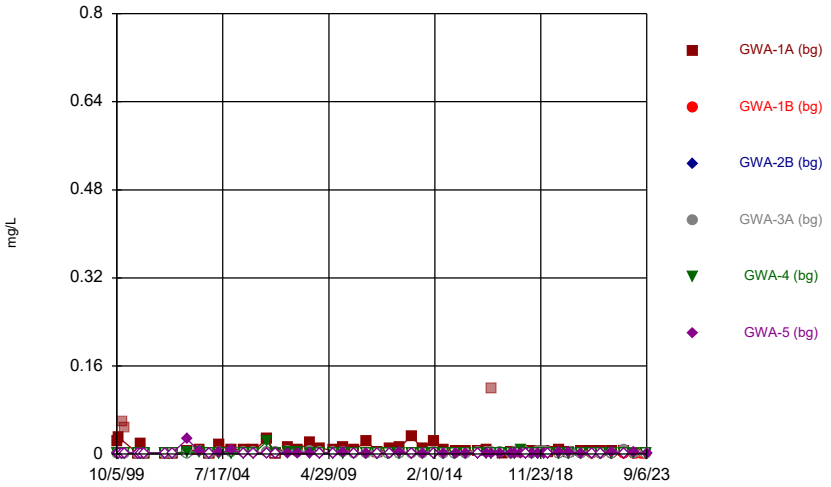
Time Series



Constituent: Chloride Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

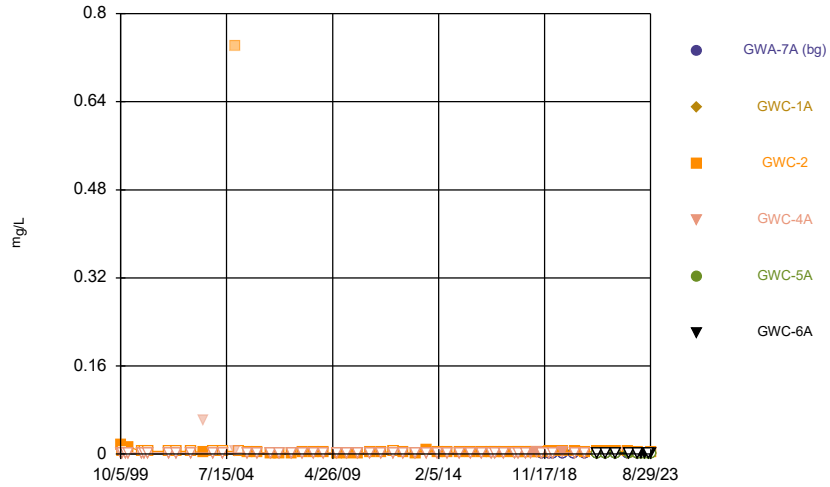
Time Series



Constituent: Chromium Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

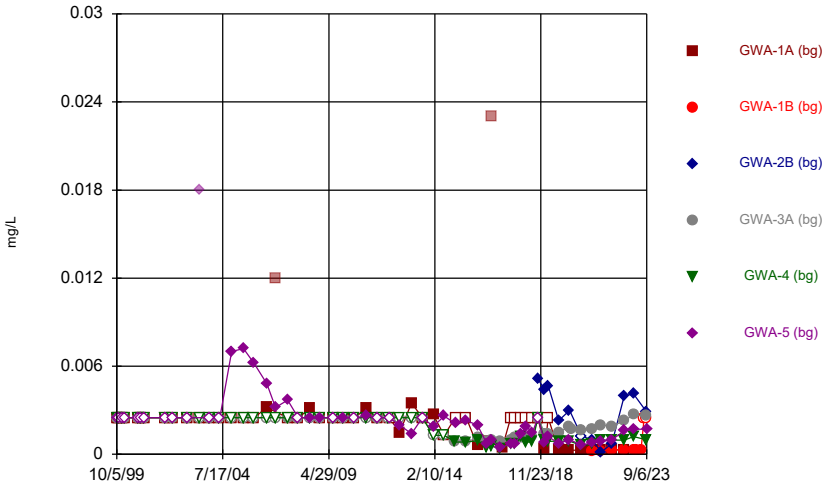
Time Series



Constituent: Chromium Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

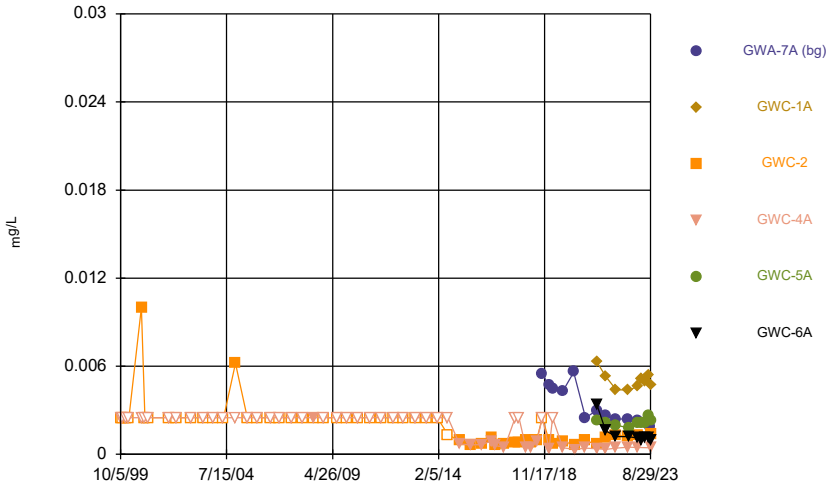
Time Series



Constituent: Cobalt Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

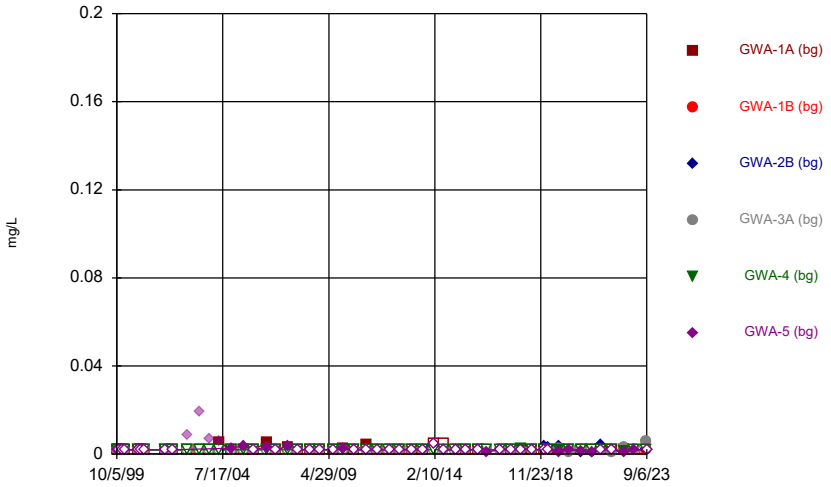
Time Series



Constituent: Cobalt Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

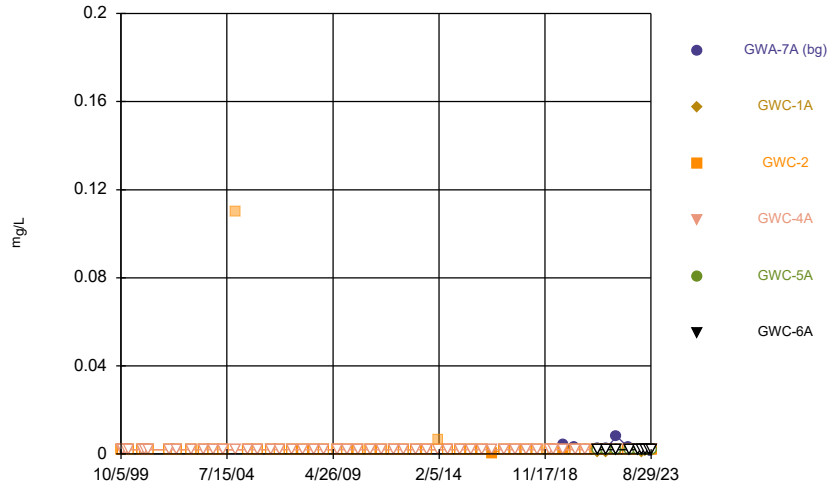
Time Series



Constituent: Copper Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

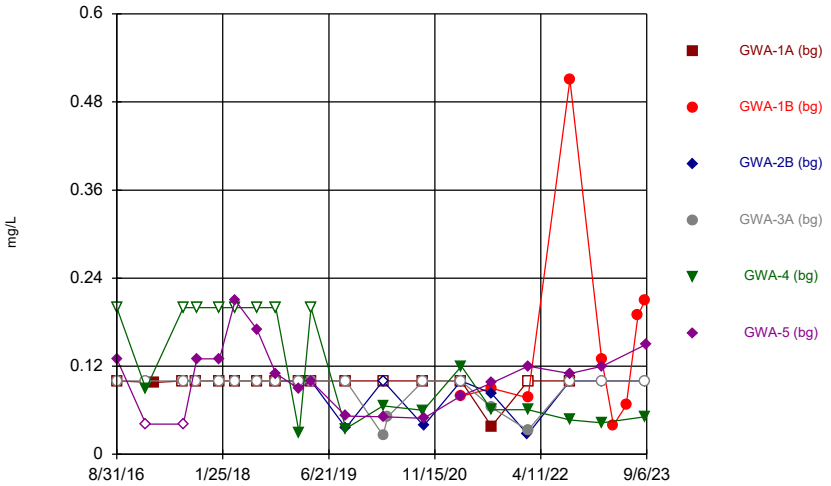
Time Series



Constituent: Copper Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

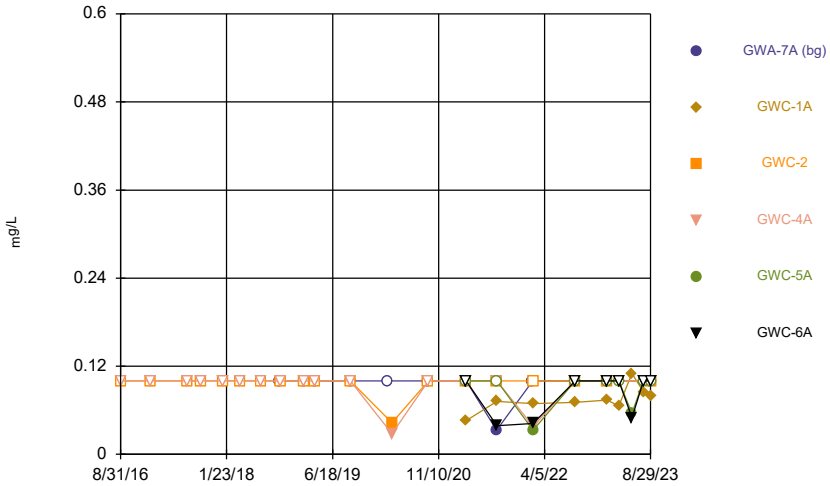
Time Series



Constituent: Fluoride Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

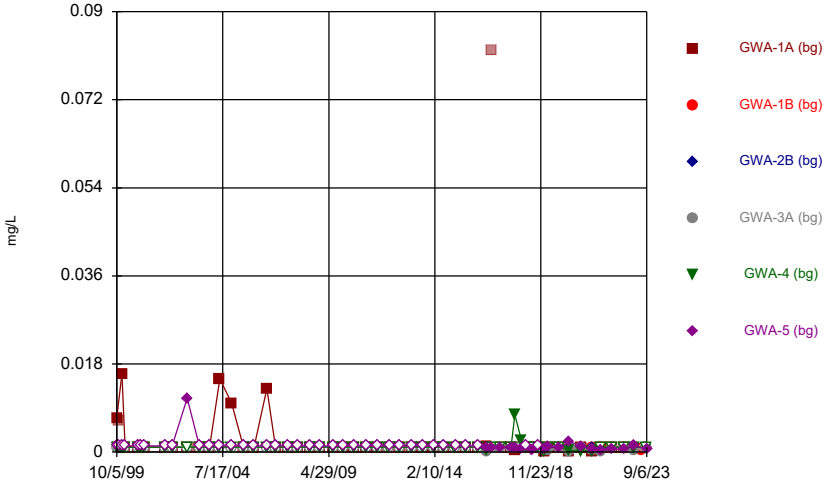
Time Series



Constituent: Fluoride Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

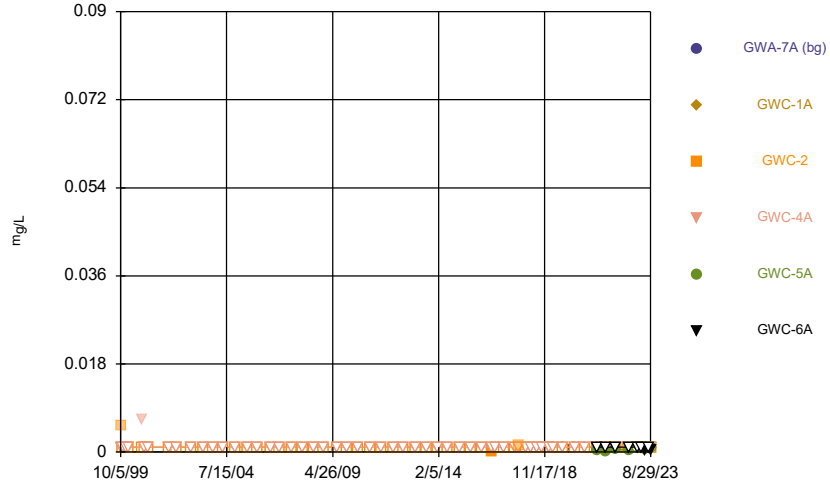
Time Series



Constituent: Lead Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

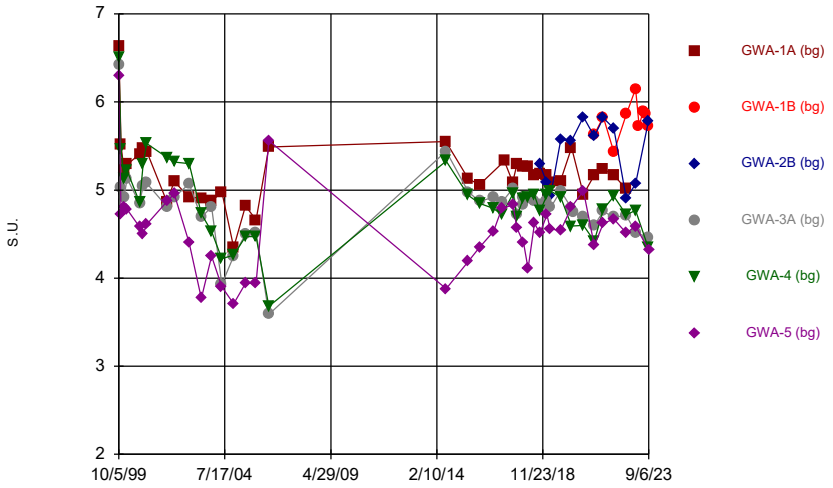
Time Series



Constituent: Lead Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

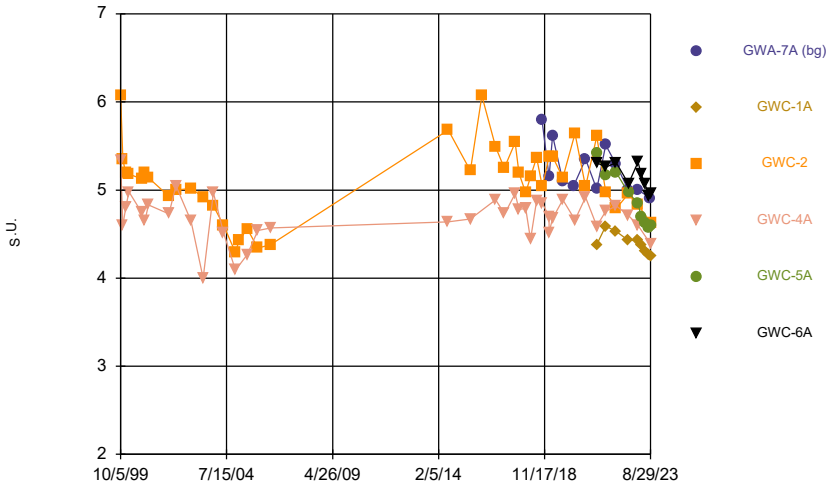
Time Series



Constituent: pH Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

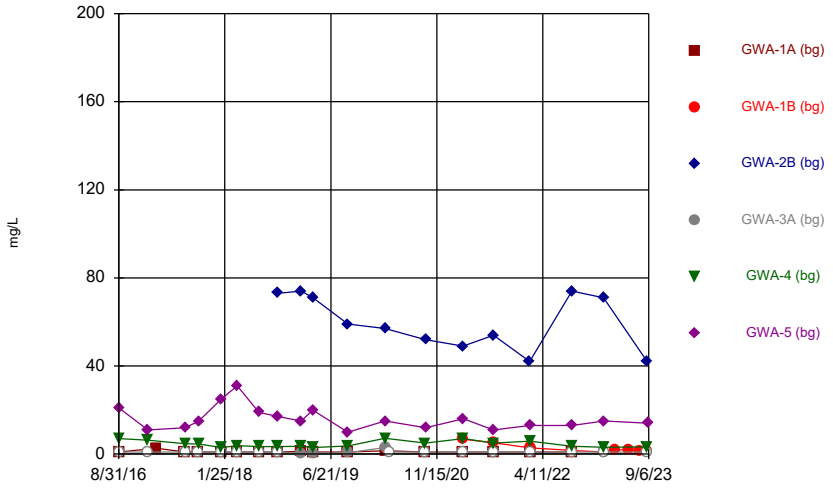
Time Series



Constituent: pH Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

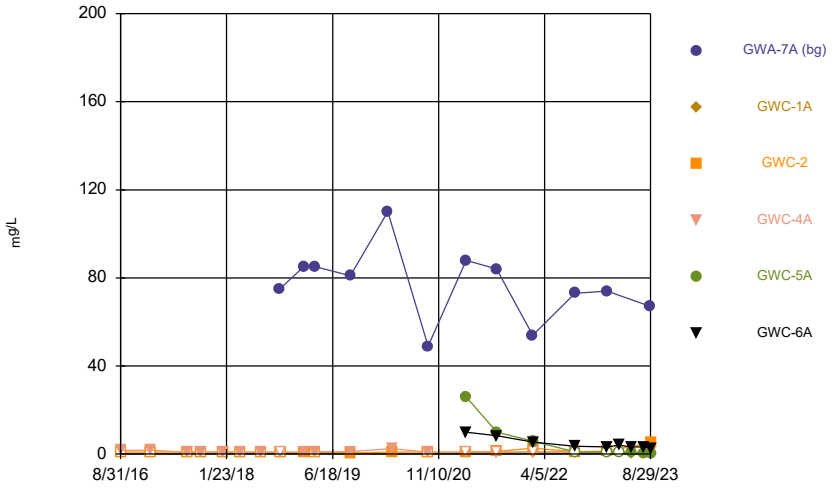
Time Series



Constituent: Sulfate Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

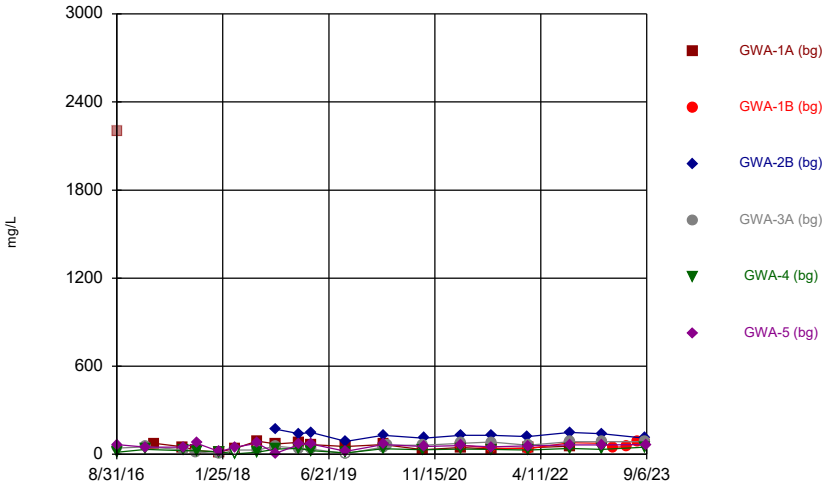
Time Series



Constituent: Sulfate Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

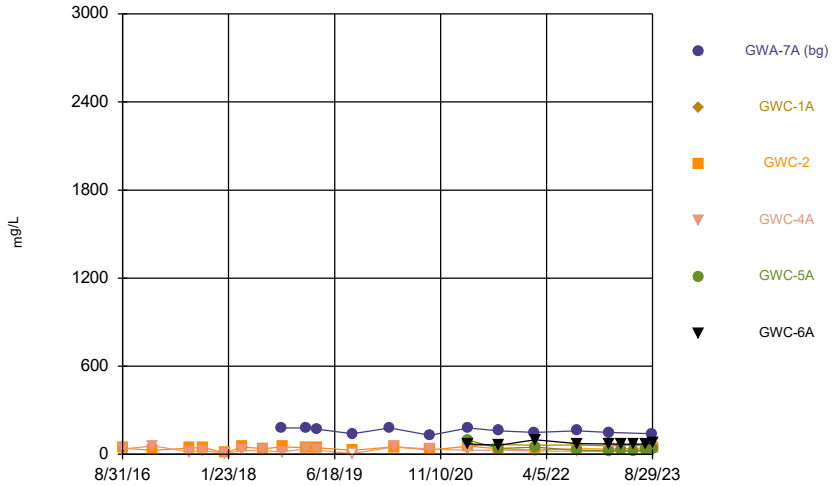
Time Series



Constituent: Total Dissolved Solids Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

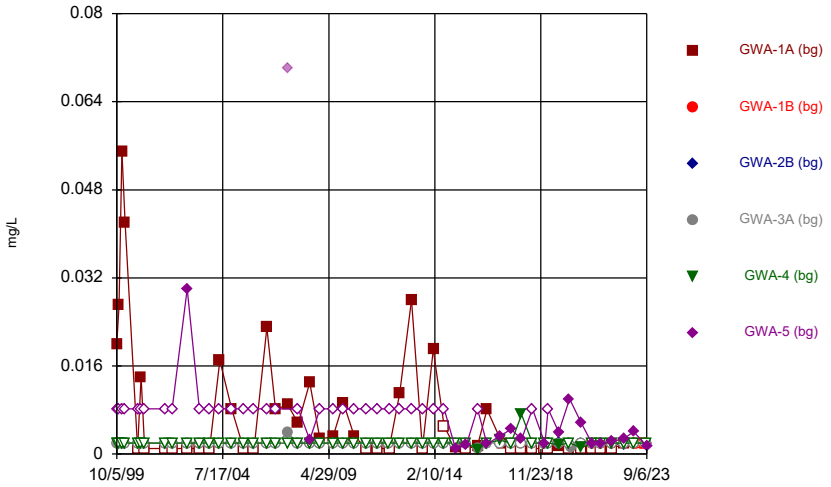
Time Series



Constituent: Total Dissolved Solids Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

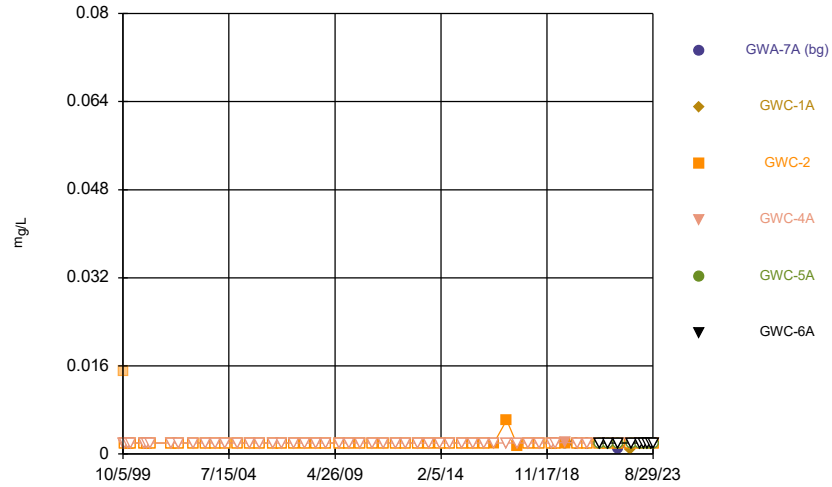
Time Series



Constituent: Vanadium Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

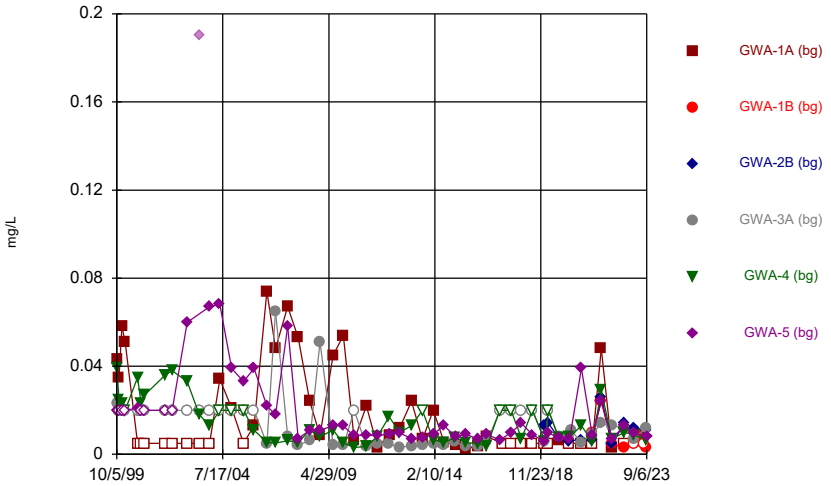
Time Series



Constituent: Vanadium Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

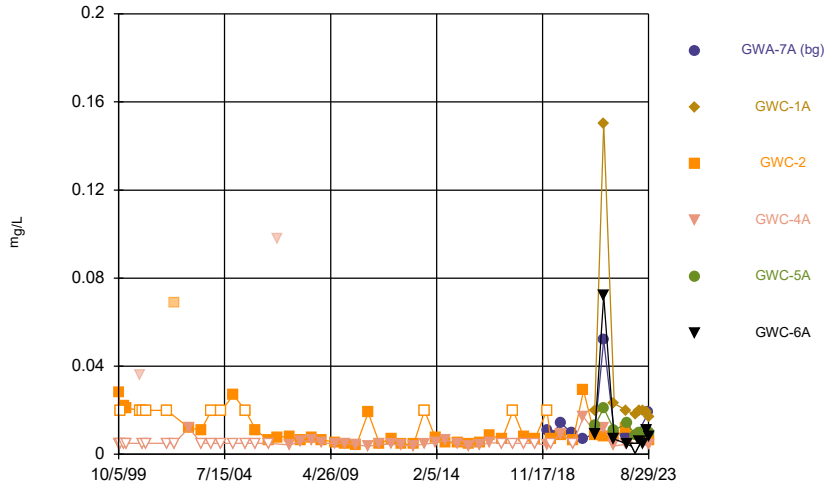
Time Series



Constituent: Zinc Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 9/28/2023 5:22 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Time Series

Constituent: Barium (mg/L) Analysis Run 9/28/2023 5:28 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 9/28/2023 5:28 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

Time Series

Constituent: Barium (mg/L) Analysis Run 9/28/2023 5:28 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 9/28/2023 5:28 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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 9/28/2023 5:28 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					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 9/28/2023 5:28 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 9/28/2023 5:28 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		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 9/28/2023 5:28 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 9/28/2023 5:28 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 9/28/2023 5:28 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 9/28/2023 5:28 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

Time Series

Constituent: Calcium (mg/L) Analysis Run 9/28/2023 5:28 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

Time Series

Constituent: Chloride (mg/L) Analysis Run 9/28/2023 5:28 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

Time Series

Constituent: Chloride (mg/L) Analysis Run 9/28/2023 5:28 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

Time Series

Constituent: Chromium (mg/L) Analysis Run 9/28/2023 5:28 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					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Chromium (mg/L) Analysis Run 9/28/2023 5:28 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 9/28/2023 5:28 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					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 9/28/2023 5:28 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 9/28/2023 5:28 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					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 9/28/2023 5:28 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 9/28/2023 5:28 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		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 9/28/2023 5:28 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Copper (mg/L) Analysis Run 9/28/2023 5:28 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

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Copper (mg/L) Analysis Run 9/28/2023 5:28 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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Copper (mg/L) Analysis Run 9/28/2023 5:28 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		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Copper (mg/L) Analysis Run 9/28/2023 5:28 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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 9/28/2023 5:28 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				<0.1	<0.2	0.13 (J)
9/1/2016	<0.1					
1/19/2017				<0.1	0.089 (J)	<0.082
2/28/2017	0.098 (J)					
7/17/2017	<0.1					
7/18/2017				<0.1	<0.2	
7/19/2017						<0.082
9/20/2017	<0.1			<0.1		
9/21/2017					<0.2	0.13 (J)
1/8/2018	<0.1					
1/9/2018				<0.1	<0.2	0.13 (J)
3/27/2018	<0.1			<0.1	<0.2	0.21
7/10/2018	<0.1			<0.1	<0.2	0.17 (J)
10/8/2018	<0.1		<0.1		<0.2	0.11 (J)
10/9/2018				<0.1		
1/30/2019	<0.1		<0.1	<0.1	0.029 (J)	0.089 (J)
3/27/2019	<0.1					0.1 (J)
3/28/2019			<0.1	<0.1	<0.2	
9/11/2019	<0.1					
9/12/2019			0.036 (J)	<0.1	0.035 (J)	0.052 (J)
3/10/2020	<0.1		<0.1	0.026 (J)	0.066 (J)	0.051 (J)
4/2/2020				0.051 (J)		
9/21/2020	<0.1			<0.1	0.06 (J)	
9/22/2020			0.039 (J)			0.049 (J)
3/23/2021	<0.1	0.079 (J)	<0.1	<0.1		
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	<0.1	<0.1	0.047 (J)	0.11
1/31/2023		0.13	<0.1			
2/1/2023				<0.1	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			<0.1	<0.1		
9/6/2023						0.15

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 9/28/2023 5:28 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	<0.1					
10/9/2018			<0.1	<0.1		
1/30/2019	<0.1			<0.1		
1/31/2019			<0.1			
3/28/2019	<0.1		<0.1	<0.1		
9/12/2019	<0.1		<0.1	<0.1		
3/11/2020	<0.1					
3/31/2020			0.043 (J)	0.028 (J)		
9/21/2020	<0.1					
9/22/2020			<0.1	<0.1		
3/23/2021	<0.1		<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	<0.1					
2/8/2022			<0.1		0.033 (J)	
2/9/2022		0.069 (J)		0.038 (J)		0.042 (J)
8/30/2022	<0.1	0.071 (J)	<0.1	<0.1		
8/31/2022					<0.1	<0.1
1/31/2023	<0.1	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	<0.1					
8/29/2023		0.08 (J)	<0.1	<0.1	<0.1	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 9/28/2023 5:28 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					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 9/28/2023 5:28 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 9/28/2023 5:28 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		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 9/28/2023 5:28 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH (S.U.) Analysis Run 9/28/2023 5:28 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 9/28/2023 5:28 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

Time Series

Constituent: pH (S.U.) Analysis Run 9/28/2023 5:28 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 9/28/2023 5:28 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

Time Series

Constituent: Sulfate (mg/L) Analysis Run 9/28/2023 5:28 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	7	21
9/1/2016	<1					
1/19/2017				<1	6.3	11
2/28/2017	2.7					
7/17/2017	<1					
7/18/2017				<1	4.7	
7/19/2017						12
9/20/2017	<1			<1		
9/21/2017					4.5	15
1/8/2018	<1					
1/9/2018				<1	3	25
3/27/2018	<1			<1	3.8	31
7/10/2018	<1			<1	3.4	19
10/8/2018	<1		73		3.4	17
10/9/2018				<1		
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				<1		
9/21/2020	<1			<1	5	
9/22/2020			52			12
3/23/2021	<1	6.8	49	<1		
3/24/2021					7	16
8/17/2021	<1	5.2	54	<1	5	11
2/7/2022			42			
2/8/2022	<1	2.8		<1	5.9	13
8/30/2022	<1	1.6	74	<1	3.5	13
1/31/2023		1	71			
2/1/2023				<1	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	<1		
9/6/2023						14

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 9/28/2023 5:28 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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 9/28/2023 5:28 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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 9/28/2023 5:28 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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 9/28/2023 5:28 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			<0.002	<0.002	<0.0082
2/17/2000	0.042			<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

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 9/28/2023 5:28 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 9/28/2023 5:28 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		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 9/28/2023 5:28 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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 9/28/2023 5:28 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 9/28/2023 5:28 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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 9/28/2023 5:28 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		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 9/28/2023 5:28 PM View: Constituents View

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

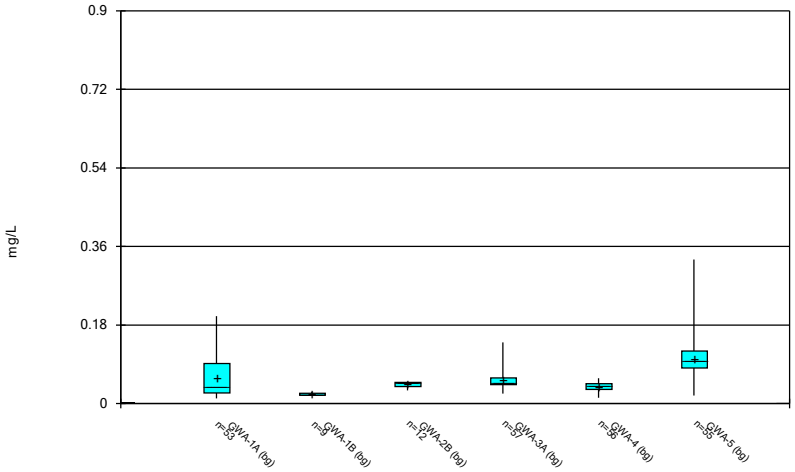
	GWA-7A (bg)	GWC-1A	GWC-2	GWC-4A	GWC-5A	GWC-6A
9/21/2020	0.007					
9/22/2020			0.029	0.017		
3/23/2021	0.0096		0.0085			0.0091
3/24/2021		0.02		0.01	0.013	
8/17/2021	0.052					
8/18/2021		0.15	0.0081	0.012	0.021	0.072
2/7/2022	0.0098					
2/8/2022			0.0078		0.011	
2/9/2022		0.023		0.0039 (J)		0.0069
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

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

Sanitas™ v.10.0.10 . UG

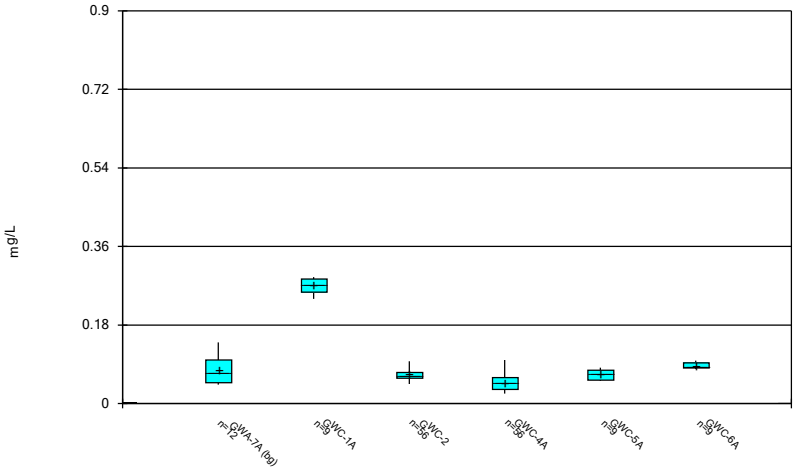
Box & Whiskers Plot



Constituent: Barium Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

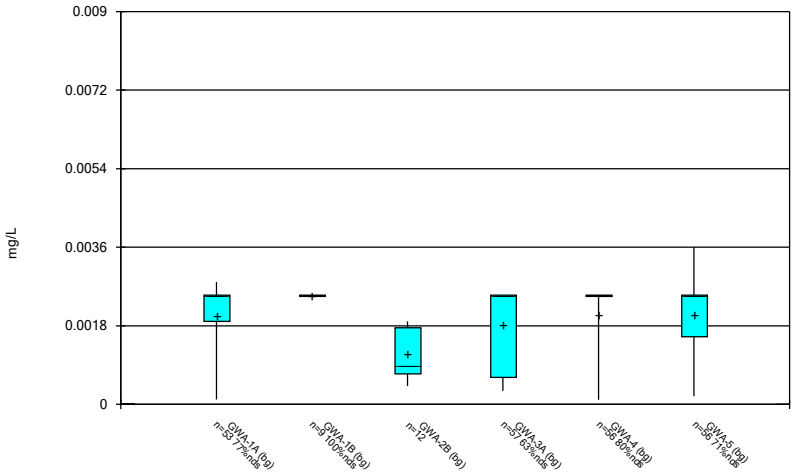
Box & Whiskers Plot



Constituent: Barium Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

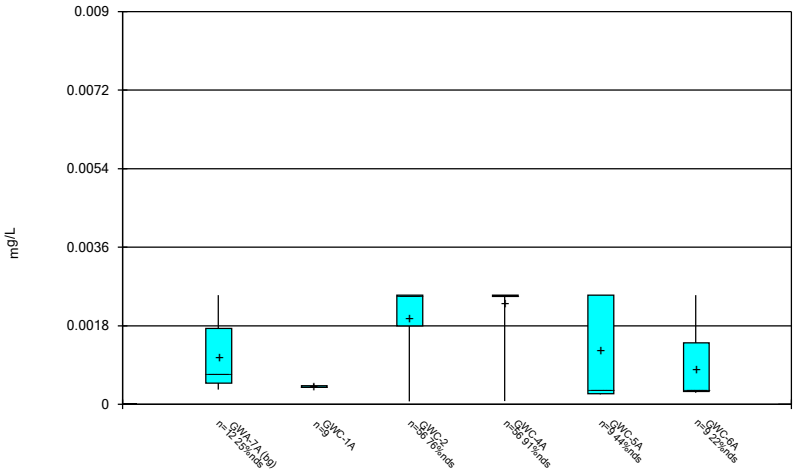
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

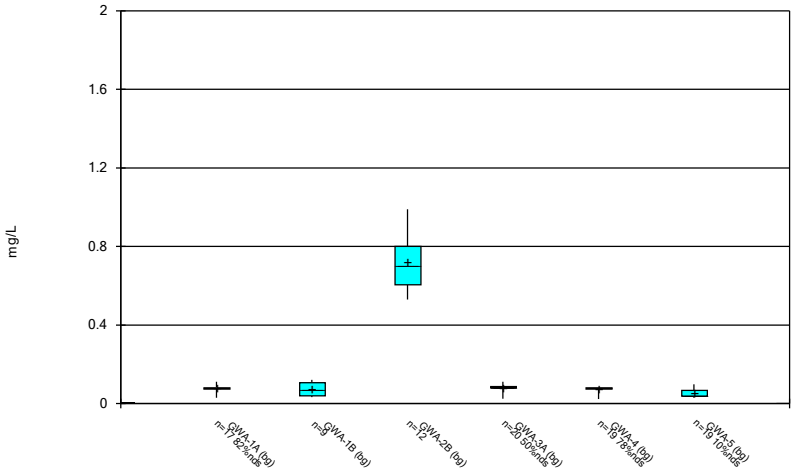
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

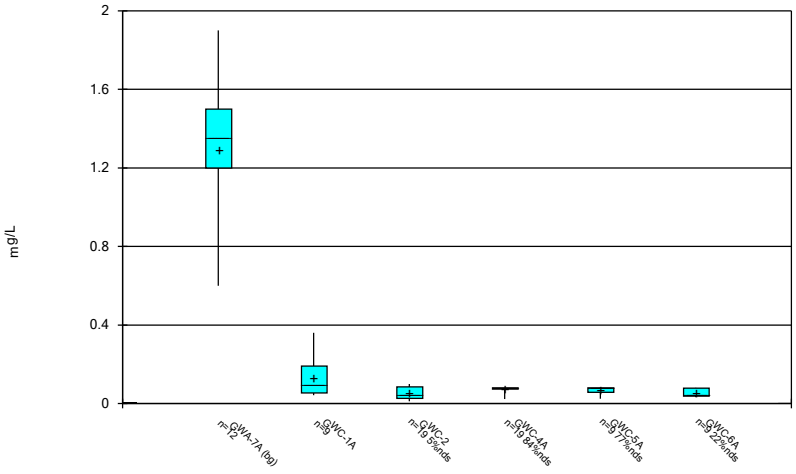
Box & Whiskers Plot



Constituent: Boron Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

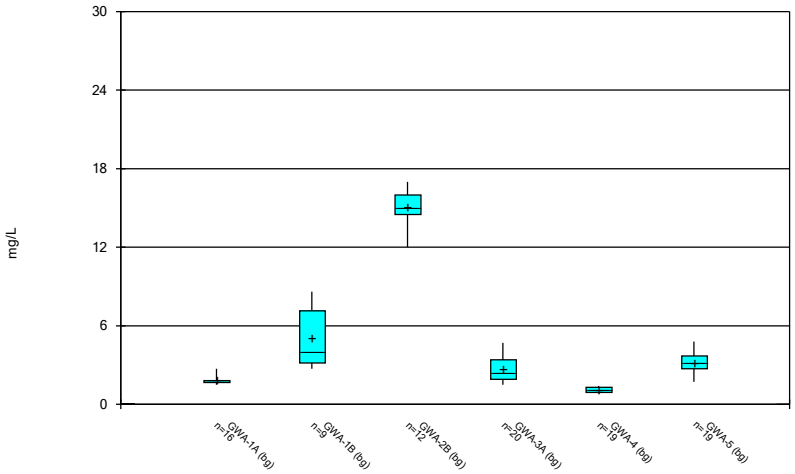
Box & Whiskers Plot



Constituent: Boron Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

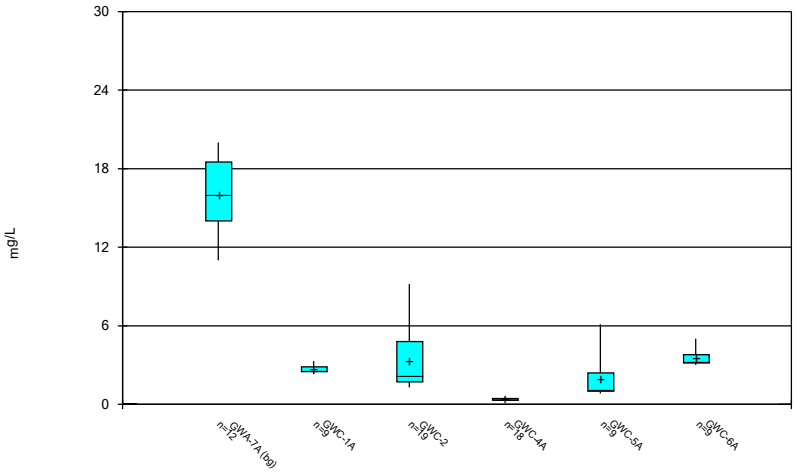
Box & Whiskers Plot



Constituent: Calcium Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

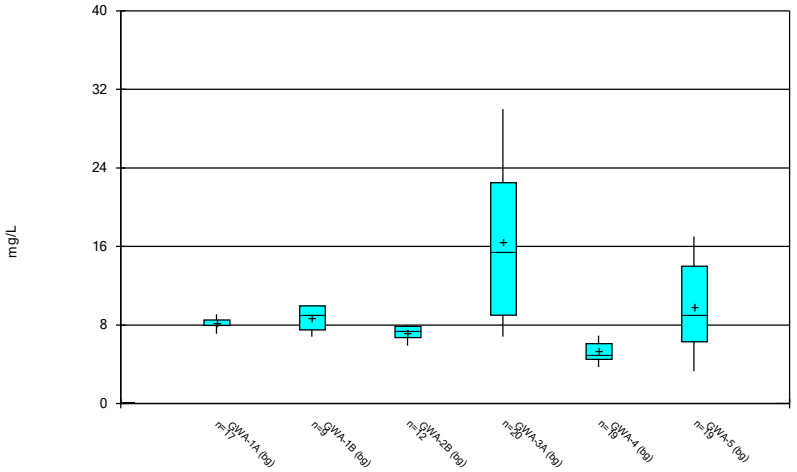
Box & Whiskers Plot



Constituent: Calcium Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

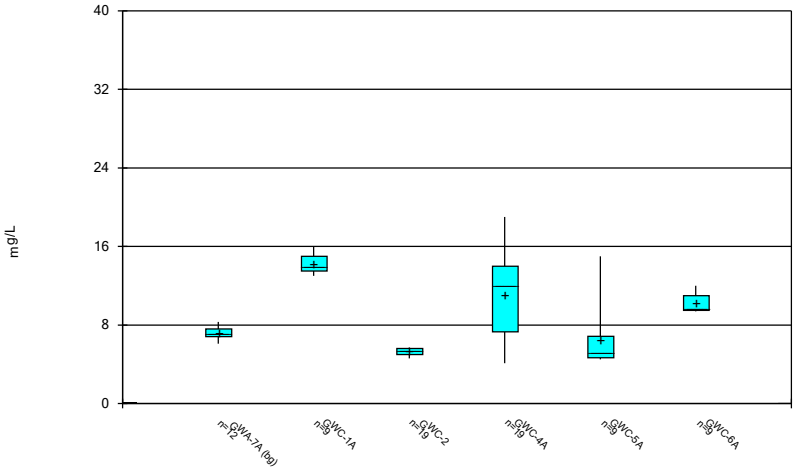
Box & Whiskers Plot



Constituent: Chloride Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

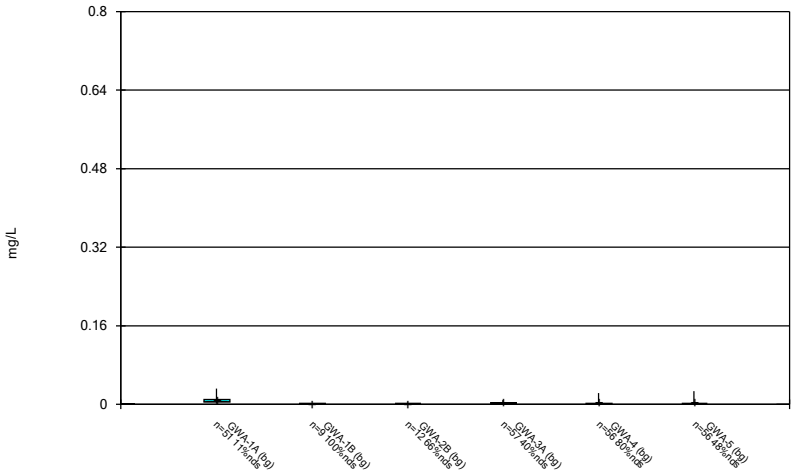
Box & Whiskers Plot



Constituent: Chloride Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

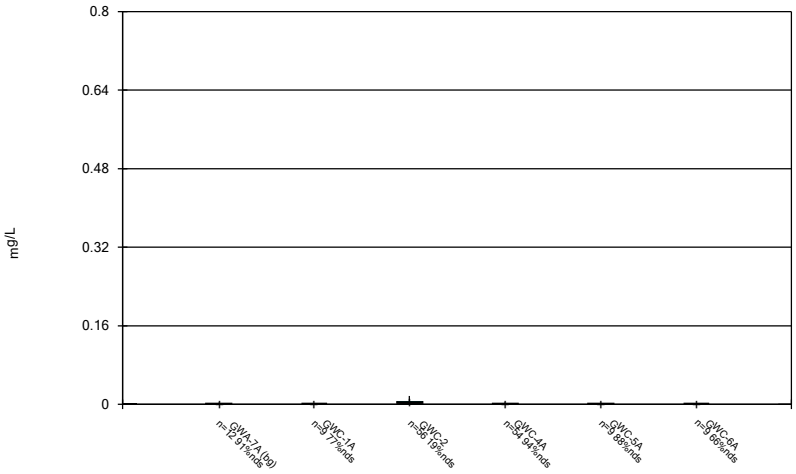
Box & Whiskers Plot



Constituent: Chromium Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

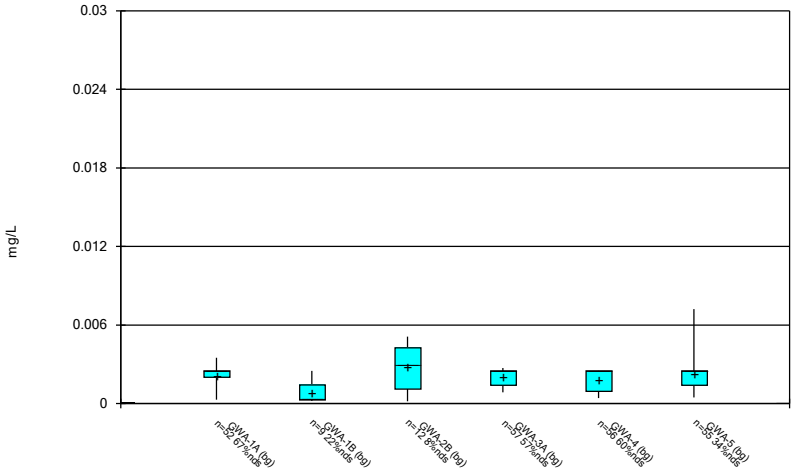
Box & Whiskers Plot



Constituent: Chromium Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

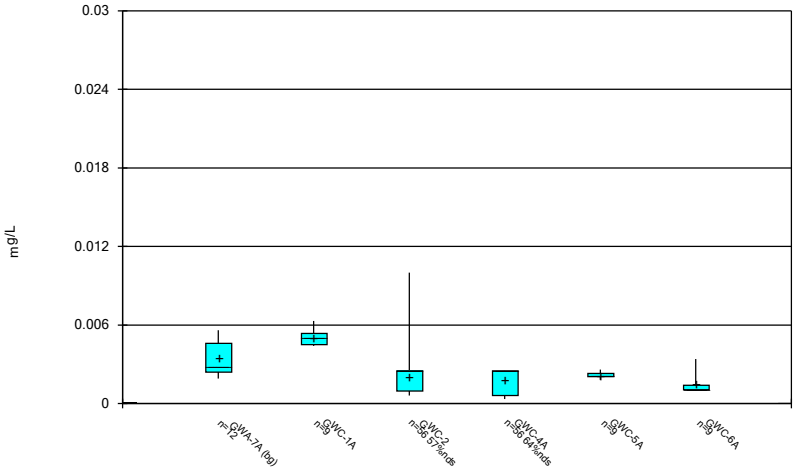
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

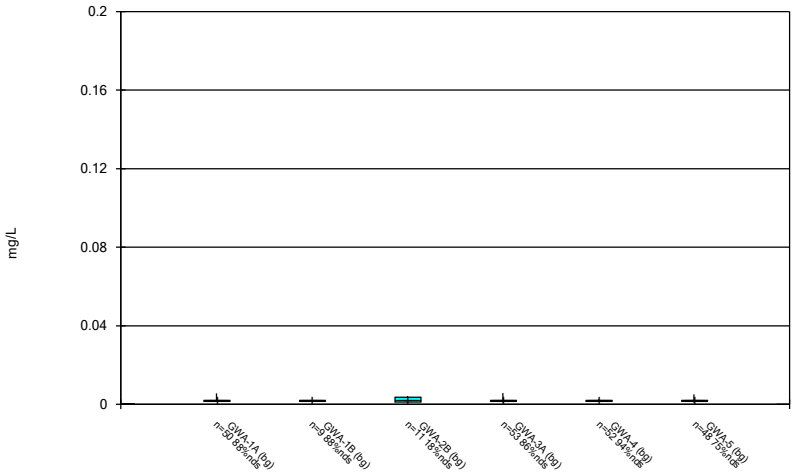
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

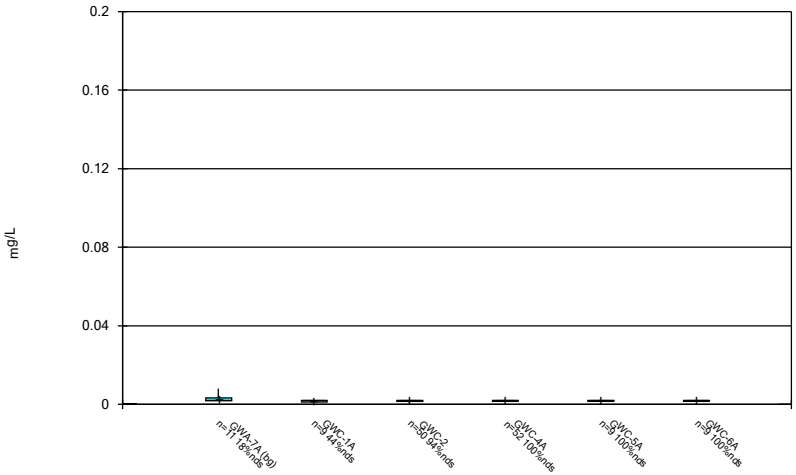
Box & Whiskers Plot



Constituent: Copper Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

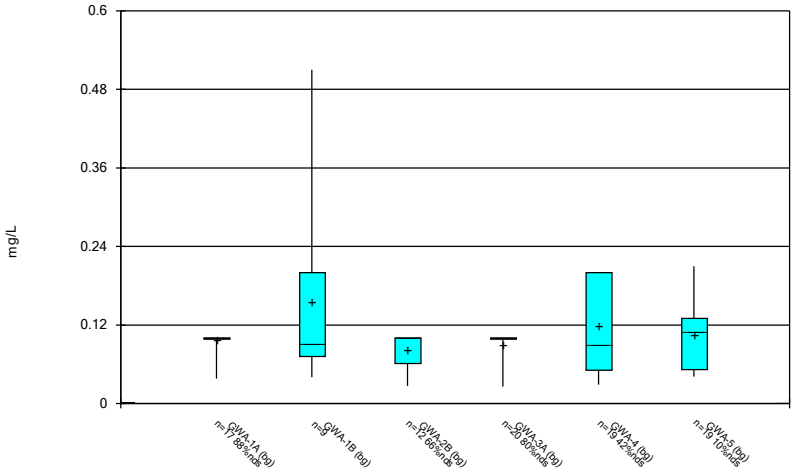
Box & Whiskers Plot



Constituent: Copper Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

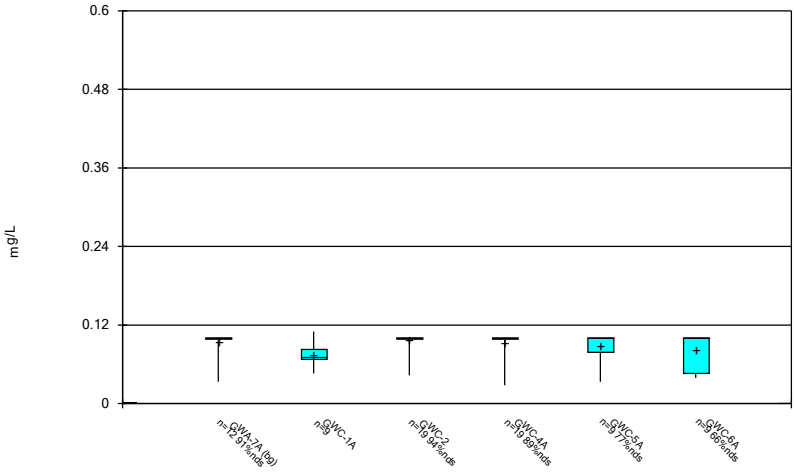
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

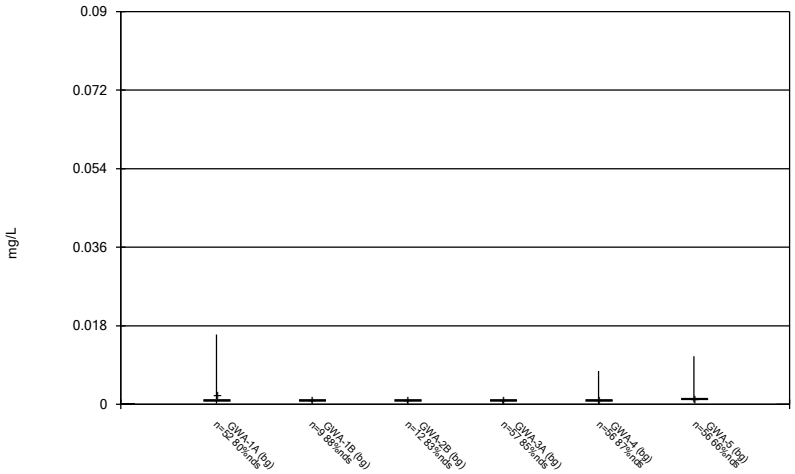
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

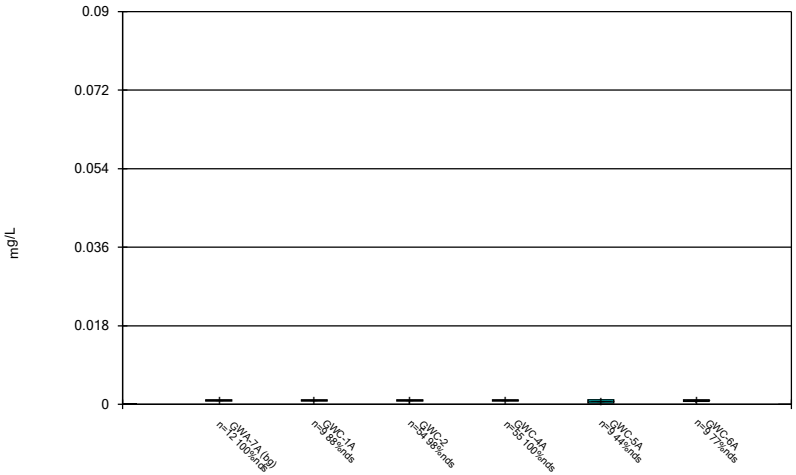
Box & Whiskers Plot



Constituent: Lead Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

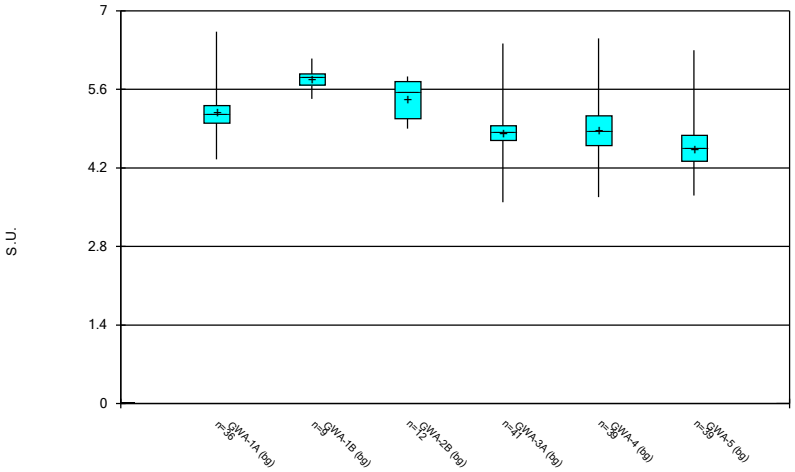
Box & Whiskers Plot



Constituent: Lead Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

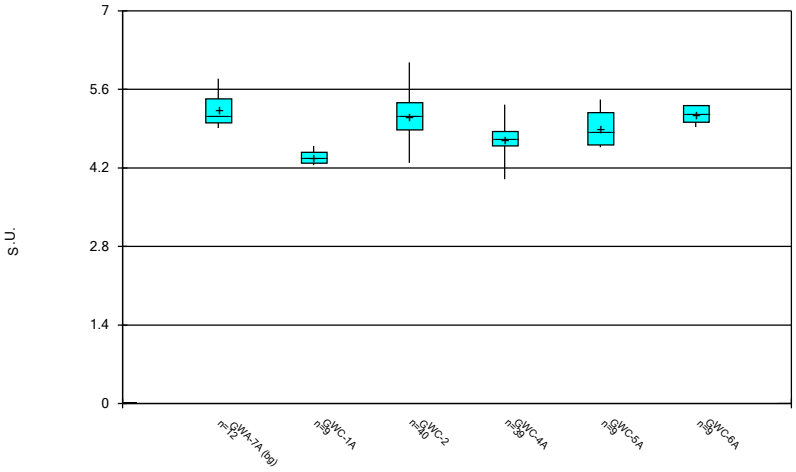
Box & Whiskers Plot



Constituent: pH Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

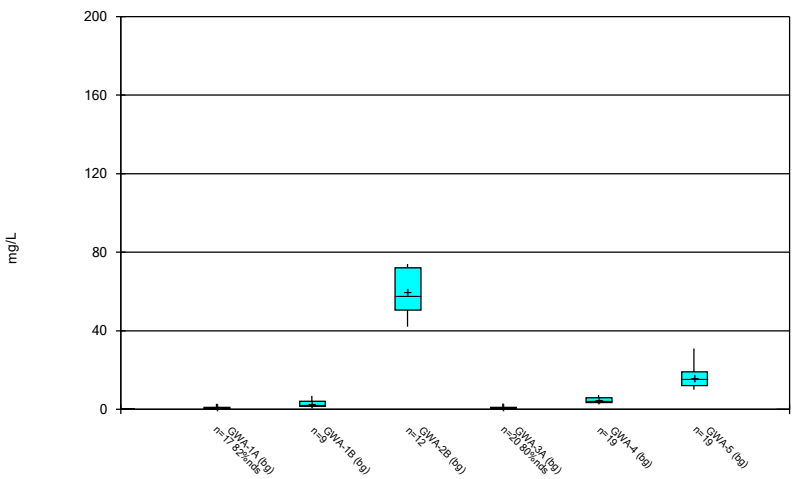
Box & Whiskers Plot



Constituent: pH Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

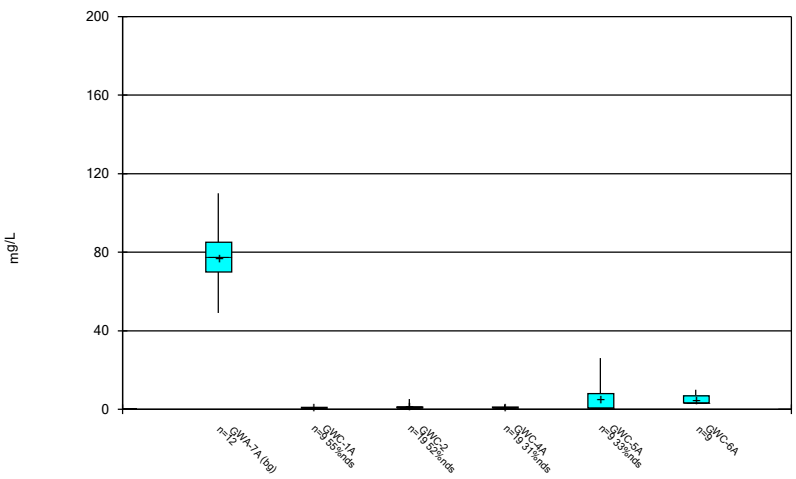
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

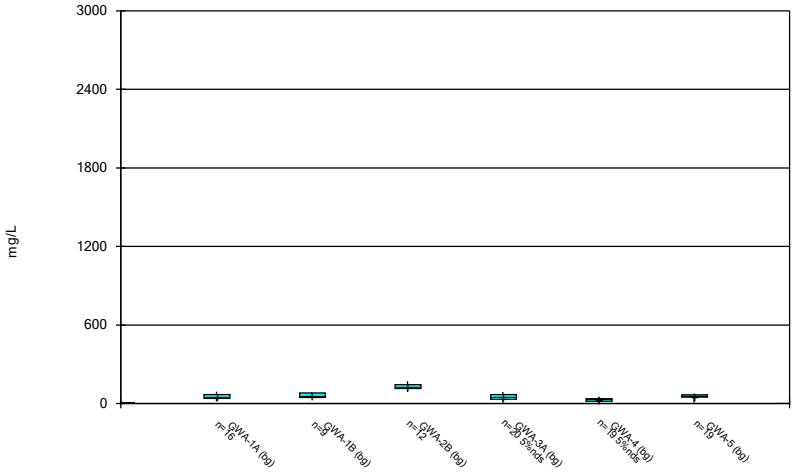
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

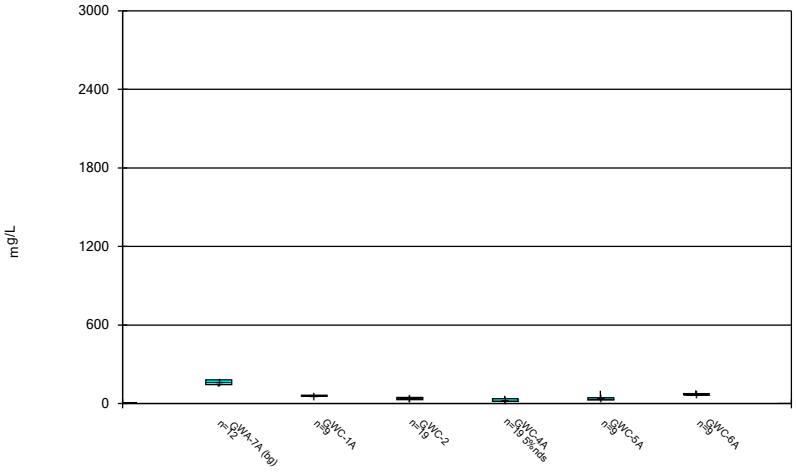
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

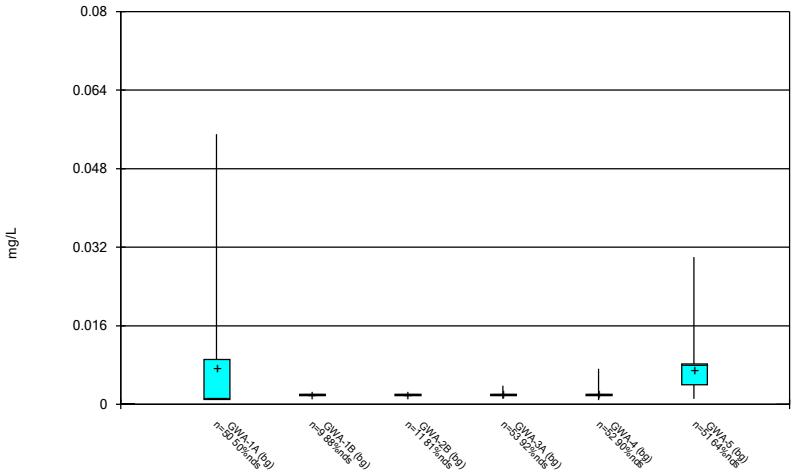
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

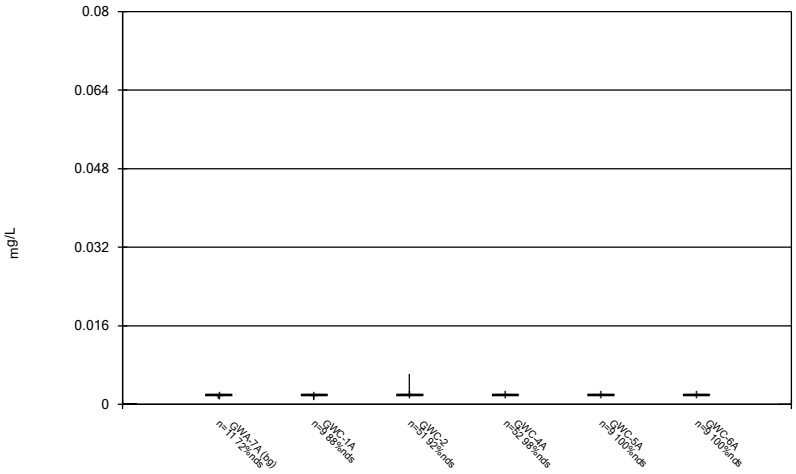
Box & Whiskers Plot



Constituent: Vanadium Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

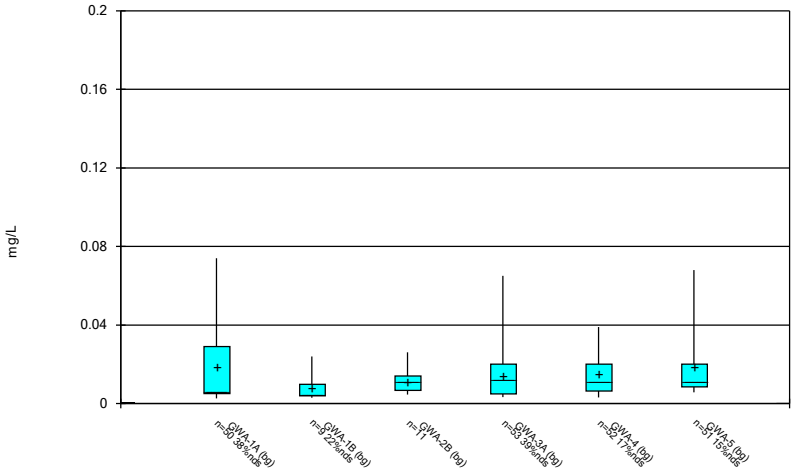
Sanitas™ v.10.0.10 . UG

Box & Whiskers Plot



Constituent: Vanadium Analysis Run 9/28/2023 5:28 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

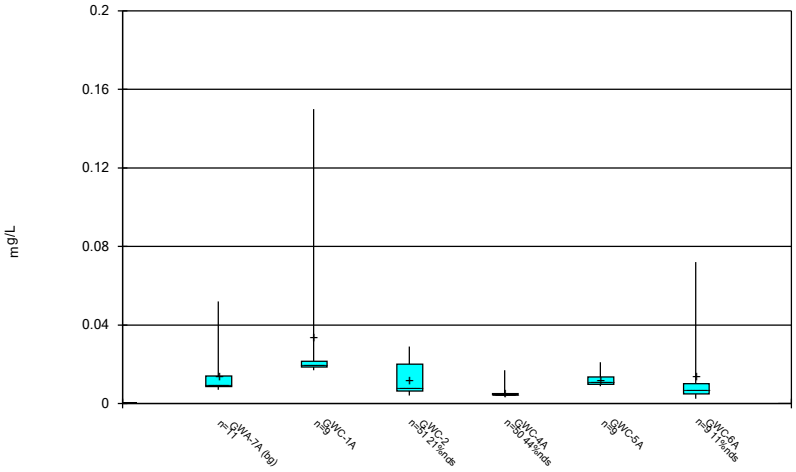
Box & Whiskers Plot



Constituent: Zinc Analysis Run 9/28/2023 5:29 PM View: Constituents View
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

Box & Whiskers Plot



Constituent: Zinc Analysis Run 9/28/2023 5:29 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 9/28/2023, 5:31 PM

	GWA-1A Barium (mg/L)	GWA-5 Barium (mg/L)	GWA-1A Beryllium (mg/L)	GWA-1A Calcium (mg/L)	GWC-4A Calcium (mg/L)	GWA-1A Chromium (mg/L)	GWC-2 Chromium (mg/L)	GWC-4A Chromium (mg/L)	GWA-1A Cobalt (mg/L)	GWA-5 Cobalt (mg/L)
10/5/1999										
11/12/1999										
12/29/1999						0.059 (o)				
2/17/2000						0.048 (o)				
9/13/2000										
4/4/2002										
12/6/2002										
6/28/2003								0.061 (o)		0.018 (o)
12/13/2003										
5/28/2004										
12/10/2004							0.74 (o)	0.0059 (o)		
12/1/2006									0.012 (o)	
6/21/2007										
1/17/2014										
9/1/2016	0.86 (o)		0.0084 (o)	26 (o)		0.12 (o)			0.023 (o)	
9/21/2017										
7/10/2018		0.14 (o)			2 (o)					

	GWA-5 Copper (mg/L)	GWC-2 Copper (mg/L)	GWA-1A Lead (mg/L)	GWC-2 Lead (mg/L)	GWC-4A Lead (mg/L)	GWA-1A Total Dissolved Solids (mg/L)	GWA-5 Vanadium (mg/L)	GWC-2 Vanadium (mg/L)	GWA-5 Zinc (mg/L)	GWC-2 Zinc (mg/L)
10/5/1999				0.0054 (o)				0.015 (o)		
11/12/1999			0.0063 (o)							
12/29/1999										
2/17/2000										
9/13/2000					0.0067 (o)					
4/4/2002										0.069 (o)
12/6/2002	0.0089 (o)									
6/28/2003	0.019 (o)								0.19 (o)	
12/13/2003	0.0067 (o)									
5/28/2004	0.0057 (o)									
12/10/2004		0.11 (o)								
12/1/2006										
6/21/2007							0.07 (o)			
1/17/2014		0.0065 (o)								
9/1/2016			0.082 (o)			2200 (o)				
9/21/2017				0.0014 (o)						
7/10/2018										

Outlier Summary

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 9/28/2023, 5:31 PM

	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	
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.

Interwell Prediction Limits Appendix III - All Results (No Significant)

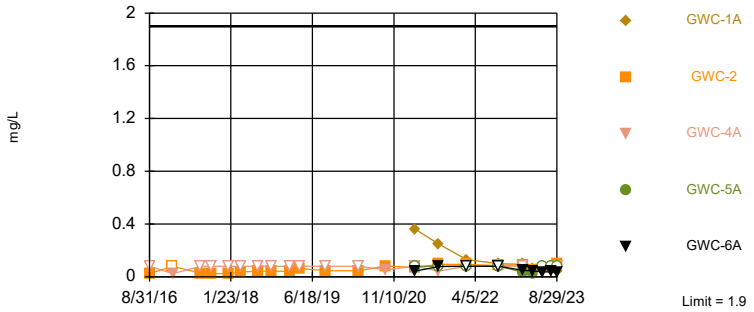
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 9/28/2023, 5:38 PM

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	8/29/2023	0.042J	No	108	n/a	n/a	37.96	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	1.9	n/a	8/29/2023	0.1	No	108	n/a	n/a	37.96	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4A	1.9	n/a	8/29/2023	0.08ND	No	108	n/a	n/a	37.96	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-5A	1.9	n/a	8/29/2023	0.08ND	No	108	n/a	n/a	37.96	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6A	1.9	n/a	8/29/2023	0.033J	No	108	n/a	n/a	37.96	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1A	20	n/a	8/29/2023	2.5	No	107	n/a	n/a	0	n/a	n/a	0.000173	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	20	n/a	8/29/2023	1.6	No	107	n/a	n/a	0	n/a	n/a	0.000173	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4A	20	n/a	8/29/2023	0.37J	No	107	n/a	n/a	0	n/a	n/a	0.000173	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5A	20	n/a	8/29/2023	1.1	No	107	n/a	n/a	0	n/a	n/a	0.000173	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6A	20	n/a	8/29/2023	3.2	No	107	n/a	n/a	0	n/a	n/a	0.000173	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1A	30	n/a	8/29/2023	13	No	108	n/a	n/a	0	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	30	n/a	8/29/2023	4.8	No	108	n/a	n/a	0	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4A	30	n/a	8/29/2023	4.1	No	108	n/a	n/a	0	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5A	30	n/a	8/29/2023	5.2	No	108	n/a	n/a	0	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6A	30	n/a	8/29/2023	9.5	No	108	n/a	n/a	0	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1A	0.51	n/a	8/29/2023	0.08J	No	108	n/a	n/a	55.56	n/a	n/a	0.0001701	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-2	0.51	n/a	8/29/2023	0.1ND	No	108	n/a	n/a	55.56	n/a	n/a	0.0001701	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-4A	0.51	n/a	8/29/2023	0.1ND	No	108	n/a	n/a	55.56	n/a	n/a	0.0001701	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-5A	0.51	n/a	8/29/2023	0.1ND	No	108	n/a	n/a	55.56	n/a	n/a	0.0001701	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6A	0.51	n/a	8/29/2023	0.1ND	No	108	n/a	n/a	55.56	n/a	n/a	0.0001701	NP Inter (NDs) 1 of 2
pH (S.U.)	GWC-1A	5.903	4.063	8/29/2023	4.25	No	188	2.223	0.1157	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-2	5.903	4.063	8/29/2023	4.63	No	188	2.223	0.1157	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-4A	5.903	4.063	8/29/2023	4.39	No	188	2.223	0.1157	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-5A	5.903	4.063	8/29/2023	4.6	No	188	2.223	0.1157	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-6A	5.903	4.063	8/29/2023	4.96	No	188	2.223	0.1157	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
Sulfate (mg/L)	GWC-1A	110	n/a	8/29/2023	0.4J	No	108	n/a	n/a	27.78	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	110	n/a	8/29/2023	5.2	No	108	n/a	n/a	27.78	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4A	110	n/a	8/29/2023	0.57J	No	108	n/a	n/a	27.78	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5A	110	n/a	8/29/2023	0.48J	No	108	n/a	n/a	27.78	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6A	110	n/a	8/29/2023	2.7	No	108	n/a	n/a	27.78	n/a	n/a	0.0001701	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-1A	166.8	n/a	8/29/2023	53	No	107	7.871	2.796	1.869	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-2	166.8	n/a	8/29/2023	45	No	107	7.871	2.796	1.869	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-4A	166.8	n/a	8/29/2023	21	No	107	7.871	2.796	1.869	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-5A	166.8	n/a	8/29/2023	36	No	107	7.871	2.796	1.869	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-6A	166.8	n/a	8/29/2023	76	No	107	7.871	2.796	1.869	None	sqrt(x)	0.001504	Param Inter 1 of 2

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Interwell Non-parametric



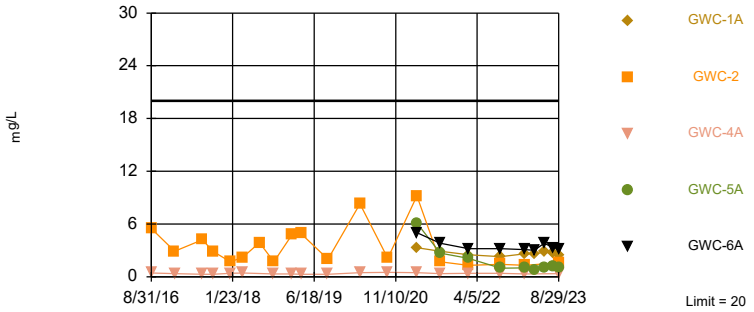
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 108 background values. 37.96% NDs. Annual per-constituent alpha = 0.001699. Individual comparison alpha = 0.0001701 (1 of 2). Comparing 5 points to limit.

Constituent: Boron Analysis Run 9/28/2023 5:33 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Within Limit

Prediction Limit

Interwell Non-parametric



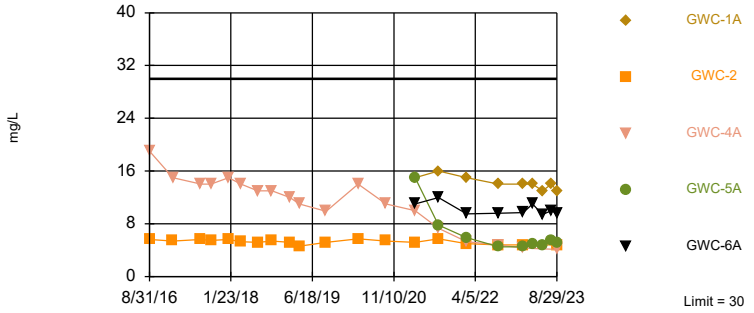
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 107 background values. Annual per-constituent alpha = 0.001728. Individual comparison alpha = 0.000173 (1 of 2). Comparing 5 points to limit.

Constituent: Calcium Analysis Run 9/28/2023 5:33 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Within Limit

Prediction Limit

Interwell Non-parametric



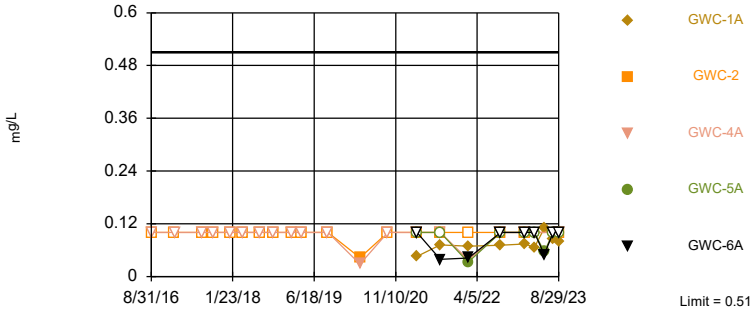
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 108 background values. Annual per-constituent alpha = 0.001699. Individual comparison alpha = 0.0001701 (1 of 2). Comparing 5 points to limit.

Constituent: Chloride Analysis Run 9/28/2023 5:33 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG
Hollow symbols indicate censored values.
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 108 background values. 55.56% NDs. Annual per-constituent alpha = 0.001699. Individual comparison alpha = 0.0001701 (1 of 2). Comparing 5 points to limit.

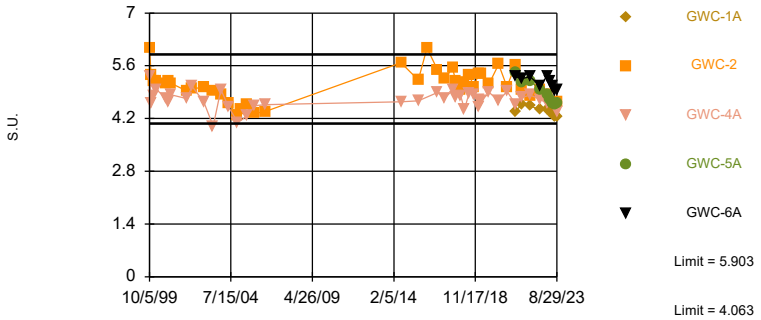
Constituent: Fluoride Analysis Run 9/28/2023 5:33 PM View: Appendix III
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.10 . UG

Within Limits

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=2.223, Std. Dev.=0.1157, n=188. Normality test: Chi Squared @alpha = 0.01, calculated = 12.64, 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 9/28/2023 5:33 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

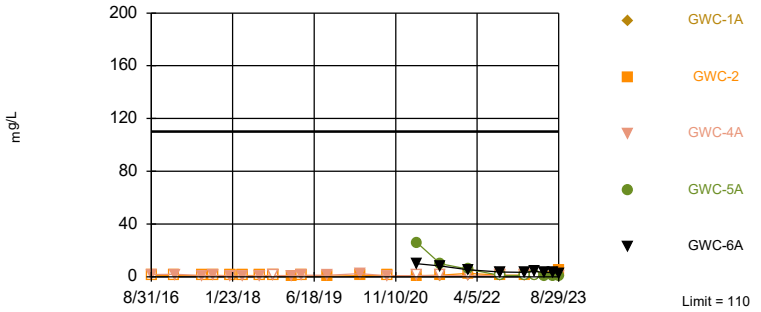
Sanitas™ v.10.0.10 . UG

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 108 background values. 27.78% NDs. Annual per-constituent alpha = 0.001699. Individual comparison alpha = 0.0001701 (1 of 2). Comparing 5 points to limit.

Constituent: Sulfate Analysis Run 9/28/2023 5:33 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

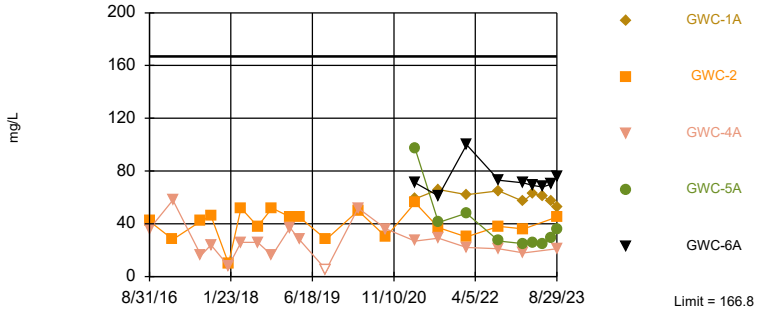
Sanitas™ v.10.0.10 . UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=7.871, Std. Dev.=2.796, n=107, 1.869% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 13.84, critical = 14.07. Kappa = 1.804 (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 9/28/2023 5:33 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 9/28/2023 5:38 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-2	GWA-5 (bg)	GWA-3A (bg)	GWC-4A	GWA-4 (bg)	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
8/31/2016	0.023 (J)	0.073	<0.08	<0.08	<0.08				
9/1/2016						0.029 (J)			
1/19/2017		0.036 (J)	<0.08		0.027 (J)				
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	0.026 (J)	0.07							
7/20/2017				<0.08					
9/20/2017			<0.08			<0.08			
9/21/2017	0.025 (J)	0.07		<0.08	<0.08				
1/8/2018						<0.08			
1/9/2018	0.023 (J)	0.042 (J)	<0.08	<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	0.044 (J)	0.042 (J)	<0.08	<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	0.062		0.024 (J)	<0.08	<0.08		1.4	0.83	
9/11/2019						<0.08			
9/12/2019	0.045 (J)	0.048 (J)	<0.08	<0.08	<0.08		1.6	0.65	
3/10/2020		0.066 (J)	0.059 (J)		<0.08	<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			0.11		0.073 (J)	0.11	0.61		
9/22/2020	0.083	0.097		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)	0.098		0.045 (J)	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	0.094	<0.08	0.077 (J)		<0.08	<0.08			
2/9/2022				<0.08					<0.08
8/30/2022	0.085	<0.08	0.1	<0.08	<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	0.091		0.087	<0.08	0.023 (J)				
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)							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 9/28/2023 5:38 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	0.1		
3/24/2021		0.36	<0.08
8/17/2021	0.11		
8/18/2021		0.25	<0.08
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)	0.094	0.033 (J)
2/1/2023			
2/2/2023			
3/28/2023	0.072 (J)		
3/29/2023		0.063 (J)	0.024 (J)
5/30/2023	0.068 (J)		
5/31/2023		0.054 (J)	<0.08
7/26/2023	0.032 (J)	0.054 (J)	<0.08
8/28/2023	0.035 (J)		
8/29/2023		0.042 (J)	<0.08
9/6/2023			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 9/28/2023 5:38 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-4 (bg)	GWA-5 (bg)	GWA-3A (bg)	GWC-2	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
8/31/2016	0.88	3.7	1.5	5.5	0.42				
9/1/2016						26 (o)			
1/19/2017	1.1	2	1.8						
1/24/2017				2.9					
1/25/2017					0.37				
2/28/2017						2.7			
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	0.9	2.7		2.9	0.3				
1/8/2018						1.7			
1/9/2018	1	4.1	1.9	1.7	0.38				
3/27/2018	0.89	4.8	1.9			1.7			
3/28/2018					0.44				
3/29/2018				2.2					
7/10/2018	0.99	3.7	1.9	3.9	2 (o)	1.7			
10/8/2018	1.1	3.2				1.6	17	17	
10/9/2018			2.2	1.7	0.34				
1/30/2019	1	1.7	2.4		0.34	1.9	15	16	
1/31/2019				4.8					
3/27/2019		3.1				1.6			
3/28/2019	0.98		2.4	4.9	0.3		18	16	
9/11/2019						1.6			
9/12/2019	0.84	1.9	2.3	2	0.3 (J)		19	15	
3/10/2020	1.1	2.9	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	19	15	4
3/24/2021	1.3	3.1			0.46 (J)				
8/17/2021	1.4	2.9	3.5			1.8	17	15	3.9
8/18/2021				1.7	0.37 (J)				
2/7/2022							11	12	
2/8/2022	1.3	2.8	3.3	1.3		1.7			2.7
2/9/2022					0.39 (J)				
8/30/2022	1.2	3.4	3.9	1.4	0.39 (J)	1.8	14	15	5.2
8/31/2022									
1/31/2023							15	16	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
8/29/2023			4.7	1.6	0.37 (J)			13	
9/6/2023		3.7							

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 9/28/2023 5:38 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-6A	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	5		
3/24/2021		3.3	6.1
8/17/2021			
8/18/2021	3.8	2.9	2.7
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	2.6	1
2/1/2023			
2/2/2023			
3/28/2023			
3/29/2023	3	2.6	0.83
5/30/2023			
5/31/2023	3.8	2.8	1.1
7/26/2023	3.3	2.7	1.2
8/28/2023			
8/29/2023	3.2	2.5	1.1
9/6/2023			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 9/28/2023 5:38 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-2	GWA-5 (bg)	GWA-3A (bg)	GWC-4A	GWA-4 (bg)	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
8/31/2016	5.6	7.1	6.8	19	3.7				
9/1/2016						8			
1/19/2017		3.3	6.9		4.6				
1/24/2017	5.4								
1/25/2017				15					
2/28/2017						8.5			
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	6.2		14	4.4				
1/8/2018						7.9			
1/9/2018	5.6	9.9	8.6	15	4.4				
3/27/2018		13	9.4		4.9	8			
3/28/2018				14					
3/29/2018	5.3								
7/10/2018	5.2	17	11	13	5.5	7.8			
10/8/2018		16			6.6	8.5	6.8	7.3	
10/9/2018	5.4		14	13					
1/30/2019		6.5	15	12	6.9	8.2	7.1	7.3	
1/31/2019	5.2								
3/27/2019		9.1				8.1			
3/28/2019	4.6		15	11	5.7		6.1	6.1	
9/11/2019						7.1			
9/12/2019	5.2	9.1	16	9.9	6.1		6.8	7.6	
3/10/2020		3.7	19		5	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	6.3		11				8	
3/23/2021	5.2		22			8.6	7.6	7.8	11
3/24/2021		7.4		10	6.2				
8/17/2021		11	23		6.1	9.1	8.3	7.7	
8/18/2021	5.7			7.3					12
2/7/2022							7.6	6.7	
2/8/2022	5	12	23		6.4	8.6			
2/9/2022				5.3					9.5
8/30/2022	4.8	15	26	4.8	4.7	8.5	7.5	5.9	
8/31/2022									9.6
1/31/2023							7.9	6.7	9.7
2/1/2023	4.8		30	4.3	4.5				
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	4.8		29	4.1				7.9	9.5
9/6/2023		14							

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 9/28/2023 5:38 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	9.9		
3/24/2021		15	15
8/17/2021	10		
8/18/2021		16	7.8
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	14	4.5
2/1/2023			
2/2/2023			
3/28/2023	10		
3/29/2023		14	5
5/30/2023	9.1		
5/31/2023		13	4.8
7/26/2023	7.3	14	5.4
8/28/2023	6.8		
8/29/2023		13	5.2
9/6/2023			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 9/28/2023 5:38 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-2	GWA-5 (bg)	GWA-3A (bg)	GWC-4A	GWA-4 (bg)	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
8/31/2016	<0.1	0.13 (J)	<0.1	<0.1	<0.1				
9/1/2016						<0.1			
1/19/2017		<0.1	<0.1		0.089 (J)				
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	<0.1	0.13 (J)		<0.1	<0.1				
1/8/2018						<0.1			
1/9/2018	<0.1	0.13 (J)	<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	<0.1	0.17 (J)	<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)	<0.1	<0.1	0.029 (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	0.052 (J)	<0.1	<0.1	0.035 (J)		<0.1	0.036 (J)	
3/10/2020		0.051 (J)	0.026 (J)		0.066 (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	0.049 (J)		<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)		<0.1	0.12				
8/17/2021		0.097 (J)	0.064 (J)		0.061 (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	<0.1	0.12	0.033 (J)		0.061 (J)	<0.1			
2/9/2022				0.038 (J)					0.042 (J)
8/30/2022	<0.1	0.11	<0.1	<0.1	0.047 (J)	<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	<0.1	0.043 (J)				
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							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 9/28/2023 5:38 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	0.079 (J)		
3/24/2021		0.046 (J)	<0.1
8/17/2021	0.09 (J)		
8/18/2021		0.072 (J)	<0.1
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	0.074 (J)	<0.1
2/1/2023			
2/2/2023			
3/28/2023	0.04 (J)		
3/29/2023		0.066 (J)	<0.1
5/30/2023	0.067 (J)		
5/31/2023		0.11	0.056 (J)
7/26/2023	0.19	0.085 (J)	<0.1
8/28/2023	0.21		
8/29/2023		0.08 (J)	<0.1
9/6/2023			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH (S.U.) Analysis Run 9/28/2023 5:38 PM View: Appendix III

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)	GWA-1B (bg)
10/5/1999	6.63	6.51	6.3	5.33	6.08	6.42			
11/12/1999	5.51	5.46	4.72	4.6	5.35	5.03			
12/29/1999	5.23	5.13	4.8	4.8	5.19	4.92			
2/17/2000	5.29	5.22	4.78	4.98	5.18	5.13			
9/13/2000	5.41	4.86	4.58	4.75	5.13	4.85			
11/10/2000	5.47	5.29	4.5	4.65	5.2	5.05			
1/4/2001	5.44	5.53	4.61	4.83	5.14	5.08			
12/11/2001	4.86	5.37	4.87	4.73	4.93	4.81			
4/4/2002	5.1	5.32	4.96	5.05	5	4.92			
12/6/2002	4.917 (D)	5.3 (D)	4.4 (D)	4.65 (D)	5.02	5.07 (D)			
6/28/2003	4.91	4.73	3.77	4	4.92	4.69			
12/13/2003	4.87	4.53	4.25	4.97	4.82	4.81			
5/28/2004	4.98	4.22	3.9	4.51	4.6	3.93			
12/10/2004	4.35	4.26	3.71	4.09	4.29	4.25			
2/5/2005					4.43				
6/24/2005	4.82	4.47	3.94	4.27	4.56	4.5			
12/13/2005	4.66	4.47	3.94	4.54	4.34	4.52			
7/12/2006	5.49	3.68	5.56	4.57	4.38	3.59			
7/11/2014	5.55			4.64					
7/12/2014		5.33	3.88		5.68	5.44			
7/15/2015	5.13	4.94	4.19	4.67	5.22	4.98			
1/16/2016	5.06	4.85	4.35			4.87			
1/17/2016					6.07				
8/31/2016		4.79	4.53	4.89	5.49	4.92			
1/19/2017		4.72	4.79			4.86			
1/24/2017					5.25				
1/25/2017				4.73					
2/28/2017	5.33								
7/17/2017	5.09								
7/18/2017		4.96				5.02			
7/19/2017			4.83		5.54				
7/20/2017				4.96					
9/20/2017	5.29					4.72			
9/21/2017		4.7	4.57	4.78	5.19				
1/8/2018	5.26					4.92			
1/9/2018		4.91	4.4	4.79	4.97	4.83			
3/27/2018	5.27	4.92	4.11			4.91			
3/28/2018				4.44					
3/29/2018					5.15				
7/10/2018	5.17	4.94	4.62	4.88	5.37	4.87			
10/8/2018	5.18	4.76	4.51			4.84	5.79	5.29	
10/9/2018				4.85	5.04				
1/29/2019				4.7					
1/30/2019	5.17	4.94	4.72	4.52		4.88	5.15	5.08	
1/31/2019					5.38				
3/27/2019	5.09		4.56						
3/28/2019		4.99		4.68	5.38	4.8	5.62	4.93	
9/11/2019	5.1								
9/12/2019		4.92	4.54	4.89	5.14	4.99	5.1	5.57	
3/10/2020	5.48	4.59	4.81			4.79		5.56	
3/11/2020							5.05		
3/31/2020				4.66	5.64				

Prediction Limit

Constituent: pH (S.U.) Analysis Run 9/28/2023 5:38 PM View: Appendix III

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)	GWA-1B (bg)
4/2/2020						4.75			
9/21/2020	4.95	4.6				4.69	5.35		
9/22/2020			4.99	4.92	5.04			5.83	
3/23/2021	5.17				5.61	4.6	5.01	5.61	5.63
3/24/2021		4.42	4.37	4.59					
8/17/2021	5.24	4.78	4.62			4.76	5.51	5.82	5.83
8/18/2021				4.76	4.98				
2/7/2022							5.29	5.7	
2/8/2022	5.17	4.93	4.67		4.79	4.69			5.43
2/9/2022				4.82					
8/30/2022	5.01	4.72	4.51	4.71	4.96	4.71	5	4.9	5.86
8/31/2022									
1/31/2023							5	5.07	6.15
2/1/2023		4.77		4.6	4.83	4.52			
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				4.39	4.63	4.46		5.78	
9/6/2023			4.32						

Prediction Limit

Constituent: pH (S.U.) Analysis Run 9/28/2023 5:38 PM View: Appendix III

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			
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 9/28/2023 5:38 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-6A	GWC-1A	GWC-5A
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			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 9/28/2023 5:38 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-2	GWA-5 (bg)	GWA-3A (bg)	GWC-4A	GWA-4 (bg)	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
8/31/2016	<1	21	<1	1.7	7				
9/1/2016						<1			
1/19/2017		11	<1		6.3				
1/24/2017	<1								
1/25/2017				1.8					
2/28/2017						2.7			
7/17/2017						<1			
7/18/2017			<1		4.7				
7/19/2017	<1	12							
7/20/2017				0.83 (J)					
9/20/2017			<1			<1			
9/21/2017	<1	15		1.1	4.5				
1/8/2018						<1			
1/9/2018	<1	25	<1	0.79 (J)	3				
3/27/2018		31	<1		3.8	<1			
3/28/2018				0.79 (J)					
3/29/2018	<1								
7/10/2018	<1	19	<1	0.76 (J)	3.4	<1			
10/8/2018		17			3.4	<1	75	73	
10/9/2018	<1		<1	<1					
1/30/2019		15	0.41 (J)	0.9 (J)	3.5	1.2	85	74	
1/31/2019	0.57 (J)								
3/27/2019		20				<1			
3/28/2019	<1		0.44 (J)	1.1	3		85	71	
9/11/2019						<1			
9/12/2019	0.43 (J)	10	0.69 (J)	1.1	3.7		81	59	
3/10/2020		15	3		7.2	1.5		57	
3/11/2020							110		
3/31/2020	1			2.5					
4/2/2020			<1						
9/21/2020			<1		5	<1	49		
9/22/2020	<1	12		0.76 (J)				52	
3/23/2021	0.8 (J)		<1			<1	88	49	10
3/24/2021		16		<1	7				
8/17/2021		11	<1		5	<1	84	54	
8/18/2021	1.2			<1					8.3
2/7/2022							54	42	
2/8/2022	2.7	13	<1		5.9	<1			
2/9/2022				<1					5.4
8/30/2022	1.1	13	<1	<1	3.5	<1	73	74	
8/31/2022									3.5
1/31/2023							74	71	3.3
2/1/2023	1.3		<1	<1	3.1				
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		<1	0.57 (J)				42	2.7
9/6/2023		14							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 9/28/2023 5:38 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	6.8		
3/24/2021		1	26
8/17/2021	5.2		
8/18/2021		0.84 (J)	10
2/7/2022			
2/8/2022	2.8		5.9
2/9/2022		<1	
8/30/2022	1.6	<1	
8/31/2022			<1
1/31/2023	1	<1	<1
2/1/2023			
2/2/2023			
3/28/2023	2		
3/29/2023		<1	<1
5/30/2023	2		
5/31/2023		0.43 (J)	0.71 (J)
7/26/2023	1.5	<1	0.43 (J)
8/28/2023	1.4		
8/29/2023		0.4 (J)	0.48 (J)
9/6/2023			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 9/28/2023 5:38 PM View: Appendix III

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-4 (bg)	GWA-5 (bg)	GWA-3A (bg)	GWC-2	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
8/31/2016	14 (D)	66 (D)	42 (D)	42 (D)	36 (D)				
9/1/2016						2200 (o)			
1/19/2017	34 (D)	48 (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	24	76		46	24				
1/8/2018						16			
1/9/2018	16	18	4 (J)	10	8				
3/27/2018	<10	48	30			40			
3/28/2018					26				
3/29/2018				52					
7/10/2018	14	76	30	38	26	90			
10/8/2018	36	8				70	180	170	
10/9/2018			56	52	16				
1/30/2019	40	67	41		37	82	180	140	
1/31/2019				45					
3/27/2019		70				66			
3/28/2019	24		36	45	28		170	150	
9/11/2019						53			
9/12/2019	10	20	<10	28	<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		53		30	36			110	
3/23/2021			76	56		47	180	130	71
3/24/2021	36	60			27				
8/17/2021	33	50	83			36	160	130	
8/18/2021				37	29				61
2/7/2022							150	120	
2/8/2022	29	57	62	30		45			
2/9/2022					22				100
8/30/2022	40	64	87	38	21	55	160	150	
8/31/2022									73
1/31/2023							150	140	71
2/1/2023	34		85	36	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			85	45	21			110	76
9/6/2023		66							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 9/28/2023 5:38 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	63		
3/24/2021		59	97
8/17/2021	43		
8/18/2021		66	41
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	57	25
2/1/2023			
2/2/2023			
3/28/2023	48		
3/29/2023		63	26
5/30/2023	51		
5/31/2023		61	25
7/26/2023	84	57	29
8/28/2023	85		
8/29/2023		53	36
9/6/2023			

FIGURE E.

Interwell Prediction Limits Appendix I - All Results (No Significant)

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR Printed 9/29/2023, 3:36 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	8/29/2023	0.24	No	254	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	8/29/2023	0.065	No	254	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	8/29/2023	0.032	No	254	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	8/29/2023	0.076	No	254	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	8/29/2023	0.079	No	254	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	8/29/2023	0.00038J	No	255	n/a	n/a	68.24	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-2	0.0036	n/a	8/29/2023	0.00031J	No	255	n/a	n/a	68.24	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-4A	0.0036	n/a	8/29/2023	0.0025ND	No	255	n/a	n/a	68.24	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-5A	0.0036	n/a	8/29/2023	0.00031J	No	255	n/a	n/a	68.24	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-6A	0.0036	n/a	8/29/2023	0.00026J	No	255	n/a	n/a	68.24	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1A	0.032	n/a	8/29/2023	0.002ND	No	253	n/a	n/a	50.99	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.032	n/a	8/29/2023	0.0037	No	253	n/a	n/a	50.99	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-4A	0.032	n/a	8/29/2023	0.002ND	No	253	n/a	n/a	50.99	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-5A	0.032	n/a	8/29/2023	0.002ND	No	253	n/a	n/a	50.99	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-6A	0.032	n/a	8/29/2023	0.0013J	No	253	n/a	n/a	50.99	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-1A	0.0072	n/a	8/29/2023	0.0047	No	253	n/a	n/a	49.01	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-2	0.0072	n/a	8/29/2023	0.0014J	No	253	n/a	n/a	49.01	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-4A	0.0072	n/a	8/29/2023	0.00045J	No	253	n/a	n/a	49.01	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-5A	0.0072	n/a	8/29/2023	0.0023J	No	253	n/a	n/a	49.01	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-6A	0.0072	n/a	8/29/2023	0.00099J	No	253	n/a	n/a	49.01	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Copper (mg/L)	GWC-1A	0.008	n/a	8/29/2023	0.002ND	No	234	n/a	n/a	79.91	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-2	0.008	n/a	8/29/2023	0.002ND	No	234	n/a	n/a	79.91	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1A	0.016	n/a	8/29/2023	0.001ND	No	254	n/a	n/a	81.5	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.016	n/a	8/29/2023	0.001ND	No	254	n/a	n/a	81.5	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-5A	0.016	n/a	8/29/2023	0.001ND	No	254	n/a	n/a	81.5	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-6A	0.016	n/a	8/29/2023	0.00038J	No	254	n/a	n/a	81.5	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1A	0.055	n/a	8/29/2023	0.002ND	No	237	n/a	n/a	75.53	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.055	n/a	8/29/2023	0.002ND	No	237	n/a	n/a	75.53	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-4A	0.055	n/a	8/29/2023	0.002ND	No	237	n/a	n/a	75.53	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWC-1A	0.074	n/a	8/29/2023	0.017	No	237	n/a	n/a	24.89	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.074	n/a	8/29/2023	0.0065	No	237	n/a	n/a	24.89	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-4A	0.074	n/a	8/29/2023	0.004J	No	237	n/a	n/a	24.89	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-5A	0.074	n/a	8/29/2023	0.01	No	237	n/a	n/a	24.89	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-6A	0.074	n/a	8/29/2023	0.008	No	237	n/a	n/a	24.89	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

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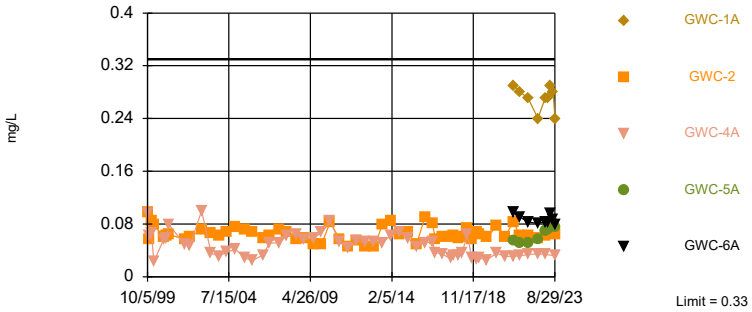
Within Limit

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 254 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 9/29/2023 3:34 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

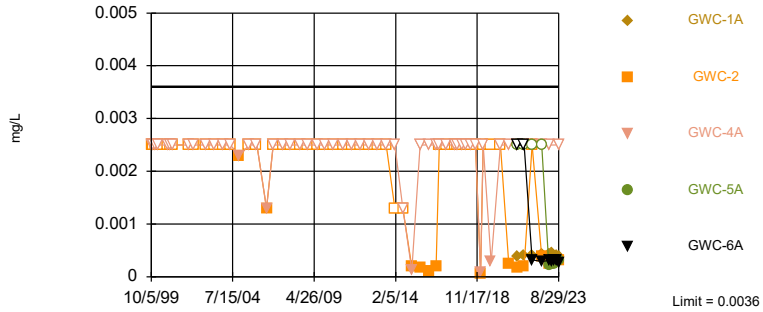
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

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 255 background values. 68.24% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Beryllium Analysis Run 9/29/2023 3:34 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

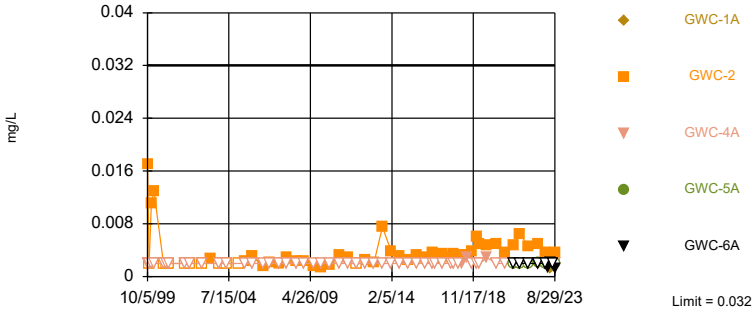
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

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. 50.99% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Chromium Analysis Run 9/29/2023 3:34 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

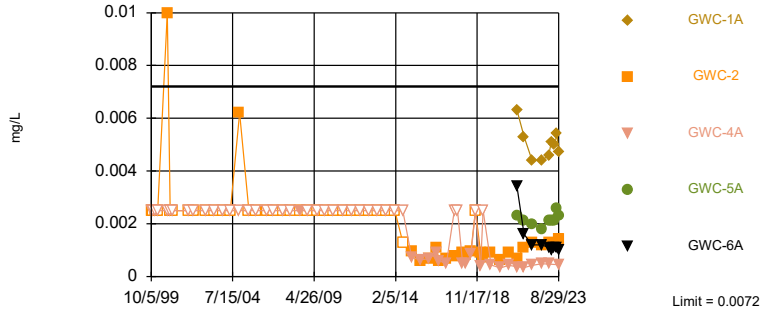
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

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 253 background values. 49.01% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

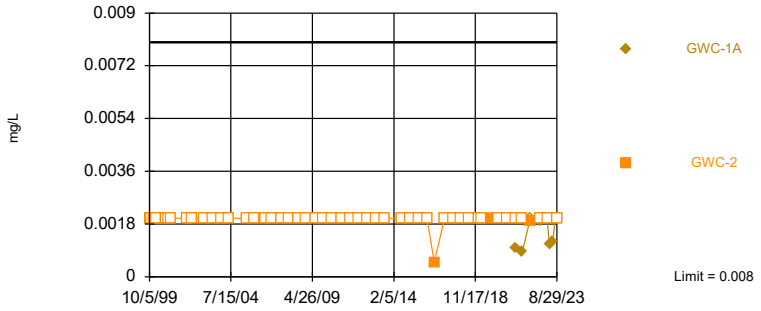
Constituent: Cobalt Analysis Run 9/29/2023 3:34 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Interwell Non-parametric



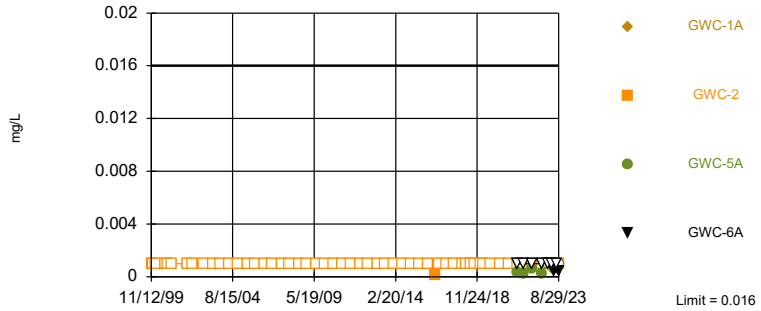
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 234 background values. 79.91% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Copper Analysis Run 9/29/2023 3:34 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Interwell Non-parametric



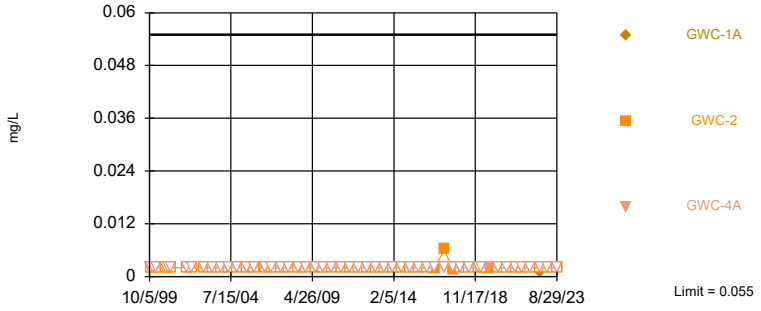
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 254 background values. 81.5% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 4 points to limit. Assumes 1 future value.

Constituent: Lead Analysis Run 9/29/2023 3:34 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Interwell Non-parametric



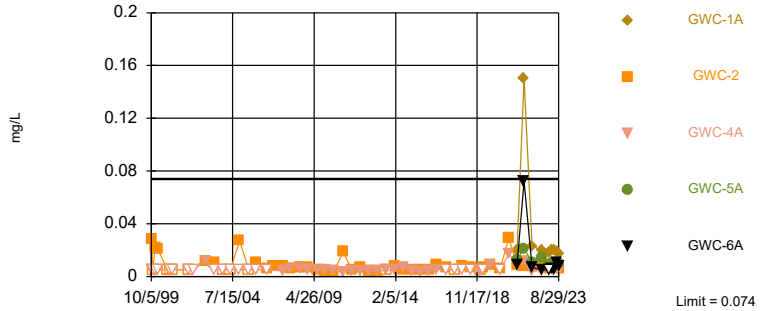
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 237 background values. 75.53% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 3 points to limit. Assumes 2 future values.

Constituent: Vanadium Analysis Run 9/29/2023 3:34 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
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 237 background values. 24.89% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Zinc Analysis Run 9/29/2023 3:34 PM View: Appendix I
Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 9/29/2023 3:36 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)	GWA-1B (bg)
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 9/29/2023 3:36 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)	GWA-1B (bg)
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				0.14	0.049	
10/9/2018				0.029	0.057	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		0.028	0.064	0.068	0.1	0.035	
9/11/2019	0.022								
9/12/2019		0.044	0.086	0.026	0.06	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				0.036	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	0.048	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				0.032	0.062				
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	0.035	0.058	0.11	0.047	0.03	0.022
8/31/2022									
1/31/2023							0.043	0.036	0.024
2/1/2023		0.05		0.034	0.063	0.13			
2/2/2023			0.13						
3/28/2023									0.018
3/29/2023									
5/30/2023									0.019
5/31/2023									
7/26/2023									0.026
8/28/2023		0.047					0.044		0.023
8/29/2023				0.032	0.065	0.12		0.045	
9/6/2023			0.12						

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 9/29/2023 3:36 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			
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 9/29/2023 3:36 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-6A	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	0.098		
3/24/2021		0.29	0.055
8/17/2021			
8/18/2021	0.09	0.28	0.052
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	0.27	0.07
2/1/2023			
2/2/2023			
3/28/2023			
3/29/2023	0.082	0.27	0.071
5/30/2023			
5/31/2023	0.096	0.29	0.076
7/26/2023	0.086	0.28	0.082
8/28/2023			
8/29/2023	0.079	0.24	0.076
9/6/2023			

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 9/29/2023 3:36 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)	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	<0.0025			
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			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 9/29/2023 3:36 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)	GWA-1B (bg)
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				0.0014 (J)	<0.0025	
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)	0.0019 (J)	0.00047 (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)	0.0017 (J)	0.00034 (J)	
9/11/2019	0.00019 (J)								
9/12/2019		<0.0025	0.00036 (J)	0.00028 (J)	<0.0025	0.00084 (J)	0.00088 (J)	0.00097 (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)	0.00071 (J)	0.00066 (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)	0.00068 (J)	0.00047 (J)	<0.0025
8/18/2021				<0.0025	0.0002 (J)				
2/7/2022							0.00071 (J)	<0.0025	
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	<0.0025	0.00038 (J)	0.00083 (J)	0.0019 (J)	0.0007 (J)	<0.0025
8/31/2022									
1/31/2023							0.0018 (J)	0.00056 (J)	<0.0025
2/1/2023		0.00024 (J)		<0.0025	0.00024 (J)	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				<0.0025	0.00031 (J)	0.00071 (J)	0.00063 (J)		
9/6/2023			0.00041 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 9/29/2023 3:36 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			
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 9/29/2023 3:36 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWC-6A	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			
8/18/2021	<0.0025	0.00041 (J)	<0.0025
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)	0.00043 (J)	0.00023 (J)
2/1/2023			
2/2/2023			
3/28/2023			
3/29/2023	0.00029 (J)	0.00046 (J)	0.00024 (J)
5/30/2023			
5/31/2023	0.00032 (J)	0.00039 (J)	0.00024 (J)
7/26/2023	0.00031 (J)	0.00041 (J)	0.00032 (J)
8/28/2023			
8/29/2023	0.00026 (J)	0.00038 (J)	0.00031 (J)
9/6/2023			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 9/29/2023 3:36 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)	GWC-6A
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)								

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 9/29/2023 3:36 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)	GWC-6A
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	
8/18/2021				0.0064	<0.002				<0.002
2/7/2022							<0.002	<0.002	
2/8/2022	0.0051	<0.002	0.003	0.0046		<0.002			
2/9/2022					<0.002				<0.002
8/30/2022	0.0047	<0.002	<0.002	0.005	<0.002	0.0084	<0.002	0.0028	
8/31/2022									<0.002
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									
3/29/2023									0.0014 (J)
5/30/2023									
5/31/2023									0.0021
7/26/2023									<0.002
8/28/2023		<0.002					0.0016 (J)		
8/29/2023				0.0037	<0.002	<0.002		<0.002	0.0013 (J)
9/6/2023			0.0016 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 9/29/2023 3:36 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			
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 9/29/2023 3:36 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	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	<0.002		
8/18/2021		<0.002	<0.002
2/7/2022			
2/8/2022	<0.002		<0.002
2/9/2022		<0.002	
8/30/2022	<0.002	<0.002	
8/31/2022			0.0021
1/31/2023	<0.002	<0.002	<0.002
2/1/2023			
2/2/2023			
3/28/2023	<0.002		
3/29/2023		0.0016 (J)	<0.002
5/30/2023	<0.002		
5/31/2023		0.0012 (J)	<0.002
7/26/2023	<0.002	<0.002	<0.002
8/28/2023	<0.002		
8/29/2023		<0.002	<0.002
9/6/2023			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 9/29/2023 3:36 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	0.01	<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	<0.0025	<0.0025	<0.0025	<0.0025			
6/28/2003	<0.0025	<0.0025	0.018 (o)	<0.0025	<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	0.007	<0.0025	0.0062	<0.0025			
6/24/2005	<0.0025	<0.0025	0.0072	<0.0025	<0.0025	<0.0025			
12/13/2005	<0.0025	<0.0025	0.0062	<0.0025	<0.0025	<0.0025			
7/12/2006	0.0032	<0.0025	0.0048	<0.0025	<0.0025	<0.0025			
12/1/2006	0.012 (o)	<0.0025	0.0032	<0.0025	<0.0025	<0.0025			
6/21/2007	<0.0025	<0.0025	0.0037	<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	0.0031		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	0.0026	<0.0025	<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	0.002	<0.0025	<0.0025	<0.0025			
7/13/2012	0.0015								
1/21/2013	0.0035	<0.0025	0.0014	<0.0025	<0.0025	<0.0025			
7/20/2013	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
1/17/2014	0.0027	<0.0013 (J)	0.0019	<0.0025	<0.0025	<0.0013 (J)			
7/11/2014				<0.0025					
7/12/2014	<0.0013 (J)	<0.0013 (J)	0.0026		<0.0013 (J)	<0.0013 (J)			
1/15/2015		0.00084 (J)			0.00096 (J)	0.00086 (J)			
1/16/2015	<0.0025		0.0021	0.00071 (J)					
7/15/2015	<0.0025	0.00083 (J)	0.0023	0.00064 (J)	0.0006 (J)	0.00087 (J)			
1/16/2016	0.00059 (J)	0.00092 (J)	0.002			0.0011 (J)			
1/17/2016				0.00066 (J)	0.00069 (J)				
6/22/2016	0.00085 (JD)	0.0005 (J)	0.0007 (J)	0.0009 (J)	0.0011 (J)	0.0009 (J)			
8/31/2016		0.00055 (J)	0.001 (J)	0.0006 (J)	0.0006 (J)	0.00095 (J)			
9/1/2016	0.023 (o)								
1/19/2017		0.00041 (J)	0.00046 (J)			0.00087 (J)			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 9/29/2023 3:36 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					0.00067 (J)				
1/25/2017				0.00047 (J)					
2/28/2017	0.00048 (J)								
7/17/2017	<0.0025								
7/18/2017		0.0007 (J)				0.001 (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		0.0012 (J)	0.0014 (J)	0.00048 (J)	0.00092 (J)	0.0011 (J)			
3/27/2018	<0.0025	0.00081 (J)	0.0019 (J)			0.0011 (J)			
3/28/2018				0.00048 (J)					
3/29/2018					0.0008 (J)				
7/10/2018	<0.0025	0.00086 (J)	0.0015 (J)	0.00084 (J)	0.00097 (J)	0.0012 (J)			
10/8/2018	<0.0025	<0.0025	<0.0025				0.0055	0.0051	
10/9/2018				<0.0025	<0.0025	<0.0025			
1/30/2019	0.00038 (J)	0.00092 (J)	0.00076 (J)	0.00038 (J)		0.0014 (J)	0.0047	0.0044	
1/31/2019					0.00092 (J)				
3/27/2019	<0.0025		0.0012 (J)						
3/28/2019		0.00089 (J)		<0.0025	0.00072 (J)	0.0014 (J)	0.0045	0.0046	
9/11/2019	0.00032 (J)								
9/12/2019		0.00091	0.00074	0.00044 (J)	0.0009	0.0015	0.0043	0.0023	
3/10/2020	0.00028 (J)	0.0009	0.00099			0.0019		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)	0.00059 (J)				0.0016 (J)	0.0025		
9/22/2020			0.00064 (J)	0.00042 (J)	0.00092 (J)			<0.0025	
3/23/2021	0.00028 (J)				0.00069 (J)	0.0017 (J)	0.003	0.00096 (J)	0.0034
3/24/2021		0.00069 (J)	0.00077 (J)	0.00037 (J)					
8/17/2021	0.00032 (J)	0.00096 (J)	0.00085 (J)			0.002 (J)	0.0026	0.00016 (J)	
8/18/2021				0.00034 (J)	0.0011 (J)				0.0016 (J)
2/7/2022							0.0024 (J)	0.00073 (J)	
2/8/2022	0.00029 (J)	0.00096 (J)	0.001 (J)		0.0013 (J)	0.0019 (J)			
2/9/2022				0.00042 (J)					0.0012 (J)
8/30/2022	0.00031 (J)	0.00097 (J)	0.0016 (J)	0.00048 (J)	0.0012 (J)	0.0023 (J)	0.0024 (J)	0.004	
8/31/2022									0.0012 (J)
1/31/2023							0.0023 (J)	0.0041	0.0011 (J)
2/1/2023		0.0012 (J)		0.00047 (J)	0.0013 (J)	0.0027			
2/2/2023			0.0017 (J)						
3/28/2023									
3/29/2023									0.001 (J)
5/30/2023									
5/31/2023									0.0011 (J)
7/26/2023									0.0011 (J)
8/28/2023		0.001 (J)					0.0019 (J)		
8/29/2023				0.00045 (J)	0.0014 (J)	0.0026		0.0029	0.00099 (J)
9/6/2023			0.0017 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 9/29/2023 3:36 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: Cobalt (mg/L) Analysis Run 9/29/2023 3:36 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	0.00019 (J)		
3/24/2021		0.0063	0.0023 (J)
8/17/2021	0.00025 (J)		
8/18/2021		0.0053	0.0021 (J)
2/7/2022			
2/8/2022	0.00032 (J)		0.002 (J)
2/9/2022		0.0044	
8/30/2022	0.00029 (J)	0.0044	
8/31/2022			0.0018 (J)
1/31/2023	0.00028 (J)	0.0046	0.0021 (J)
2/1/2023			
2/2/2023			
3/28/2023	0.00032 (J)		
3/29/2023		0.0051	0.0021 (J)
5/30/2023	0.00028 (J)		
5/31/2023		0.005	0.0021 (J)
7/26/2023	<0.0025	0.0054	0.0026
8/28/2023	<0.0025		
8/29/2023		0.0047	0.0023 (J)
9/6/2023			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 9/29/2023 3:36 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				
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					
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								

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 9/29/2023 3:36 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						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 9/29/2023 3:36 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWA-3A (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					
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	0.00125 (JD)	0.0003 (J)	0.00025 (JD)	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				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 9/29/2023 3:36 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-4 (bg)	GWA-3A (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		0.0023	<0.001	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)	0.00013 (J)	0.00034 (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		<0.001	0.00038 (J)		<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)	0.00031 (J)	0.00013 (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	0.00025 (J)	<0.001			<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	<0.001	0.00015 (J)	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		<0.001	0.00027 (J)		<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)					

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 9/29/2023 3:36 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 9/29/2023 3:36 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		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 9/29/2023 3:36 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	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	<0.002	<0.002	<0.002	<0.002	<0.002			
2/17/2000	0.042	<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			
7/13/2012	0.011								
1/21/2013	0.028	<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	0.019	<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			
1/15/2015		<0.002			<0.002	<0.002			
1/16/2015	0.0012 (J)		0.0011 (J)	<0.002					
7/15/2015	<0.002	<0.002	0.0016 (J)	<0.002	<0.002	<0.002			
1/16/2016	0.0015 (J)	0.00082 (J)	<0.002		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	0.0019 (J)			
1/19/2017		0.0025	0.0033		<0.002				
1/24/2017						0.0062			
1/25/2017				<0.002					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 9/29/2023 3:36 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	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		0.0072	0.0027	<0.002	<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		0.0017	0.004	0.0021	0.002	0.0018	0.002	0.0021	
3/10/2020	<0.002	<0.002	0.01		<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			0.0056	<0.002		<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	<0.002	0.0018		<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	<0.002	0.0023		<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)						

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 9/29/2023 3:36 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 9/29/2023 3:36 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	

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 9/29/2023 3:36 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				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 9/29/2023 3:36 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						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 9/29/2023 3:36 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	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			
1/19/2017			
1/24/2017			
1/25/2017			

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 9/29/2023 3:36 PM View: Appendix I

Plant McIntosh Client: Southern Company Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-5A	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	0.0098		
3/24/2021		0.013	0.02
8/17/2021	0.024		
8/18/2021		0.021	0.15
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	0.0088	0.018
2/1/2023			
2/2/2023			
3/28/2023	0.0096		
3/29/2023		0.01	0.02
5/30/2023	0.0076		
5/31/2023		0.0096	0.02
7/26/2023	<0.005	0.011	0.019
8/28/2023	0.0029 (J)		
8/29/2023		0.01	0.017
9/6/2023			

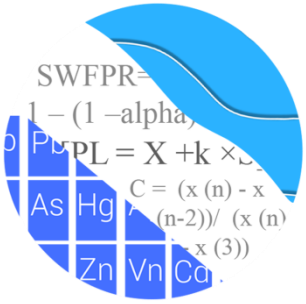
ND substitution: RL or RL/2 if <15% NDs.

APPENDIX B

Statistical Analysis Reports
January 2024 Monitoring Event

GROUNDWATER STATS CONSULTING

July 31, 2024



Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Plant McIntosh Landfill #3
Statistical Analysis – January 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 January 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 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 the 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 with 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 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 Appendix III Parameters – January 2024

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).

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 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.

As discussed in previous reports, the reported measurement of 0.51 mg/L for fluoride in upgradient well GWA-1B during the August 2022 sample event was slightly higher than historical measurements but below the Maximum Containment Level of 4.0 mg/L. This measurement was not identified as a statistical outlier and was not flagged in the database.

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

While this step was not required during this analysis, when data from downgradient well/constituent pairs are found to exceed their respective prediction limit, however, 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. 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.

Statistical Analysis of Georgia EPD Appendix I Parameters – January 2024

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. The two highest values in GWA-1A for vanadium were flagged in order to construct accurate statistical limits of the more recent concentrations.

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 2024 (Figure E). 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

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 2/9/2024 2:52 PM View: Appendix I
Plant McIntosh 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

Appendix III - Interwell Prediction Limits - All Results (No Significant)

Plant McIntosh Data: McIntosh LF 3 CCR Printed 2/9/2024, 1:58 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	1/23/2024	0.06J	No	114	n/a	n/a	35.96	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	1.9	n/a	1/23/2024	0.092	No	114	n/a	n/a	35.96	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4A	1.9	n/a	1/23/2024	0.08ND	No	114	n/a	n/a	35.96	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-5A	1.9	n/a	1/23/2024	0.08ND	No	114	n/a	n/a	35.96	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6A	1.9	n/a	1/23/2024	0.047J	No	114	n/a	n/a	35.96	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1A	20	n/a	1/23/2024	2.3	No	113	n/a	n/a	0	n/a	n/a	0.0001555	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	20	n/a	1/23/2024	1.4	No	113	n/a	n/a	0	n/a	n/a	0.0001555	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4A	20	n/a	1/23/2024	0.3J	No	113	n/a	n/a	0	n/a	n/a	0.0001555	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5A	20	n/a	1/23/2024	0.96	No	113	n/a	n/a	0	n/a	n/a	0.0001555	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6A	20	n/a	1/23/2024	3	No	113	n/a	n/a	0	n/a	n/a	0.0001555	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1A	33	n/a	1/23/2024	14	No	114	n/a	n/a	0	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	33	n/a	1/23/2024	5	No	114	n/a	n/a	0	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4A	33	n/a	1/23/2024	4.3	No	114	n/a	n/a	0	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5A	33	n/a	1/23/2024	6.4	No	114	n/a	n/a	0	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6A	33	n/a	1/23/2024	10	No	114	n/a	n/a	0	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1A	0.51	n/a	1/23/2024	0.1	No	114	n/a	n/a	54.39	n/a	n/a	0.0001526	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-2	0.51	n/a	1/23/2024	0.043J	No	114	n/a	n/a	54.39	n/a	n/a	0.0001526	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-4A	0.51	n/a	1/23/2024	0.1ND	No	114	n/a	n/a	54.39	n/a	n/a	0.0001526	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-5A	0.51	n/a	1/23/2024	0.1ND	No	114	n/a	n/a	54.39	n/a	n/a	0.0001526	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6A	0.51	n/a	1/23/2024	0.1ND	No	114	n/a	n/a	54.39	n/a	n/a	0.0001526	NP Inter (NDs) 1 of 2
pH (S.U.)	GWC-1A	5.917	4.063	1/23/2024	4.55	No	194	2.224	0.1166	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-2	5.917	4.063	1/23/2024	4.96	No	194	2.224	0.1166	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-4A	5.917	4.063	1/23/2024	4.64	No	194	2.224	0.1166	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-5A	5.917	4.063	1/23/2024	4.8	No	194	2.224	0.1166	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-6A	5.917	4.063	1/23/2024	5.32	No	194	2.224	0.1166	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
Sulfate (mg/L)	GWC-1A	110	n/a	1/23/2024	1ND	No	114	n/a	n/a	27.19	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	110	n/a	1/23/2024	3.8	No	114	n/a	n/a	27.19	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4A	110	n/a	1/23/2024	0.41J	No	114	n/a	n/a	27.19	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5A	110	n/a	1/23/2024	1ND	No	114	n/a	n/a	27.19	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6A	110	n/a	1/23/2024	3.3	No	114	n/a	n/a	27.19	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-1A	168.1	n/a	1/23/2024	63	No	113	7.954	2.783	1.77	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-2	168.1	n/a	1/23/2024	40	No	113	7.954	2.783	1.77	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-4A	168.1	n/a	1/23/2024	25	No	113	7.954	2.783	1.77	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-5A	168.1	n/a	1/23/2024	35	No	113	7.954	2.783	1.77	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-6A	168.1	n/a	1/23/2024	75	No	113	7.954	2.783	1.77	None	sqrt(x)	0.001504	Param Inter 1 of 2

Appendix I - Interwell Prediction Limits - All Results (No Significant)

Plant McIntosh Data: McIntosh LF 3 CCR Printed 2/9/2024, 5:21 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	1/23/2024	0.24	No	260	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	1/23/2024	0.057	No	260	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	1/23/2024	0.03	No	260	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	1/23/2024	0.087	No	260	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	1/23/2024	0.079	No	260	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	1/23/2024	0.00041J	No	261	n/a	n/a	67.05	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-2	0.0036	n/a	1/23/2024	0.00027J	No	261	n/a	n/a	67.05	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-4A	0.0036	n/a	1/23/2024	0.0025ND	No	261	n/a	n/a	67.05	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-5A	0.0036	n/a	1/23/2024	0.00033J	No	261	n/a	n/a	67.05	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-6A	0.0036	n/a	1/23/2024	0.00024J	No	261	n/a	n/a	67.05	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1A	0.032	n/a	1/23/2024	0.002ND	No	259	n/a	n/a	51.35	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.032	n/a	1/23/2024	0.0017J	No	259	n/a	n/a	51.35	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-4A	0.032	n/a	1/23/2024	0.002ND	No	259	n/a	n/a	51.35	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-5A	0.032	n/a	1/23/2024	0.002ND	No	259	n/a	n/a	51.35	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-6A	0.032	n/a	1/23/2024	0.002ND	No	259	n/a	n/a	51.35	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-1A	0.0072	n/a	1/23/2024	0.0042	No	259	n/a	n/a	48.26	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-2	0.0072	n/a	1/23/2024	0.0014J	No	259	n/a	n/a	48.26	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-4A	0.0072	n/a	1/23/2024	0.0004J	No	259	n/a	n/a	48.26	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-5A	0.0072	n/a	1/23/2024	0.0027	No	259	n/a	n/a	48.26	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-6A	0.0072	n/a	1/23/2024	0.00095J	No	259	n/a	n/a	48.26	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Copper (mg/L)	GWC-1A	0.008	n/a	1/23/2024	0.002ND	No	240	n/a	n/a	79.58	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-2	0.008	n/a	1/23/2024	0.002ND	No	240	n/a	n/a	79.58	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1A	0.016	n/a	1/23/2024	0.001ND	No	260	n/a	n/a	80.77	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.016	n/a	1/23/2024	0.001ND	No	260	n/a	n/a	80.77	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-5A	0.016	n/a	1/23/2024	0.0003J	No	260	n/a	n/a	80.77	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-6A	0.016	n/a	1/23/2024	0.00023J	No	260	n/a	n/a	80.77	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1A	0.03	n/a	1/23/2024	0.002ND	No	241	n/a	n/a	76.35	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.03	n/a	1/23/2024	0.002ND	No	241	n/a	n/a	76.35	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-4A	0.03	n/a	1/23/2024	0.002ND	No	241	n/a	n/a	76.35	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWC-1A	0.074	n/a	1/23/2024	0.018	No	243	n/a	n/a	24.28	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.074	n/a	1/23/2024	0.0069	No	243	n/a	n/a	24.28	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-4A	0.074	n/a	1/23/2024	0.0041J	No	243	n/a	n/a	24.28	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-5A	0.074	n/a	1/23/2024	0.016	No	243	n/a	n/a	24.28	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-6A	0.074	n/a	1/23/2024	0.0042J	No	243	n/a	n/a	24.28	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

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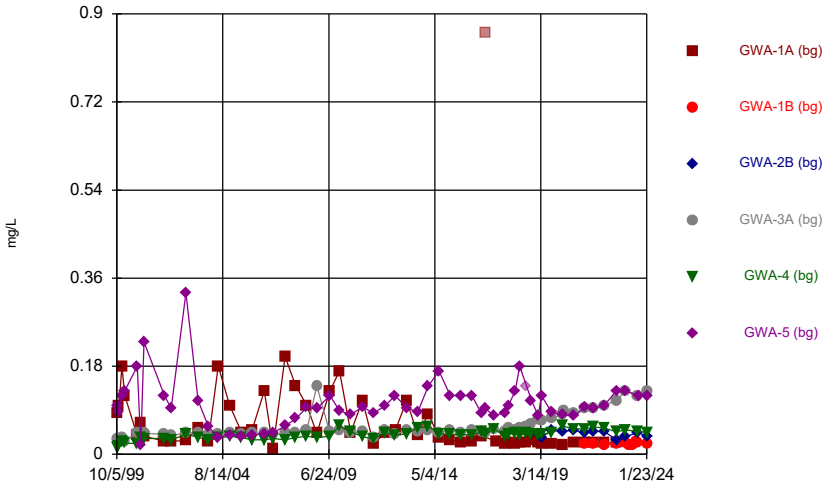
FIGURE A.

Sanitas™ v.10.0.15 . UG

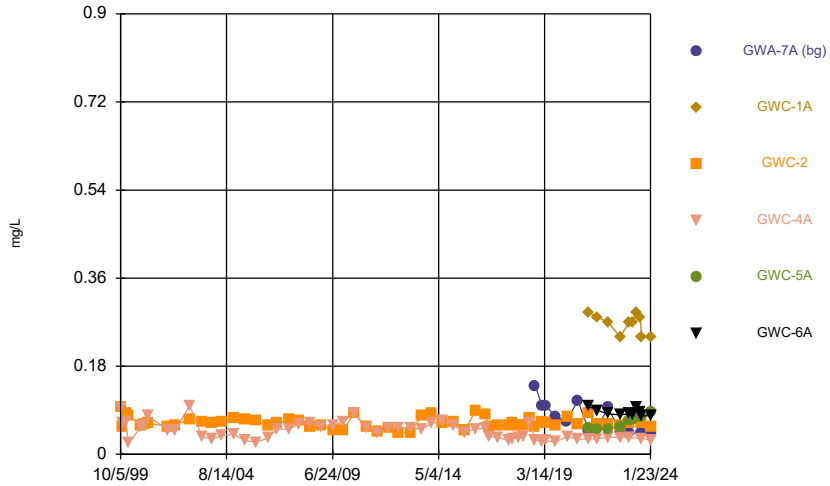
Time Series



Constituent: Barium Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

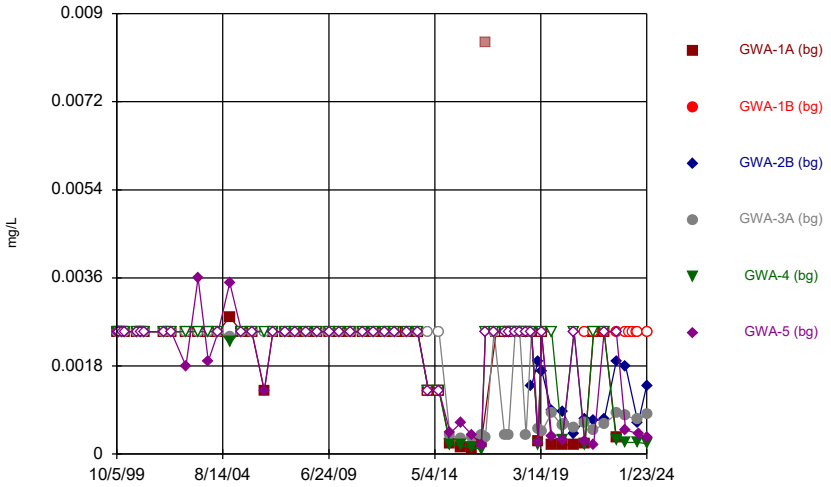
Time Series



Constituent: Barium Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

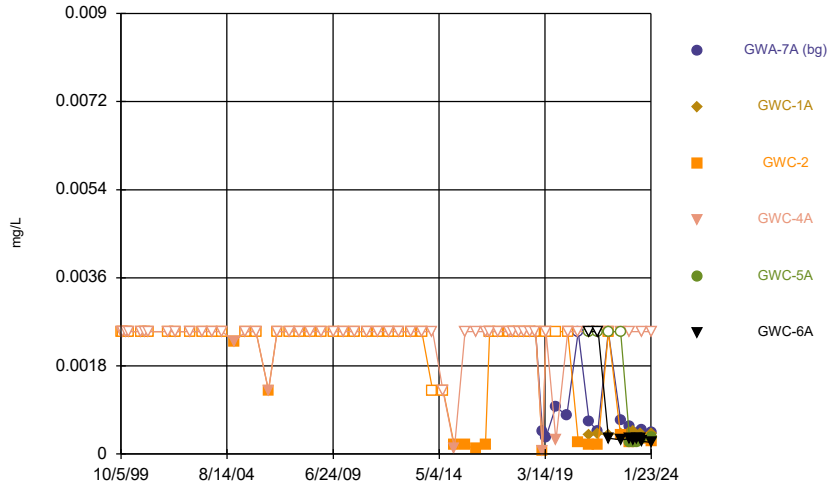
Time Series



Constituent: Beryllium Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

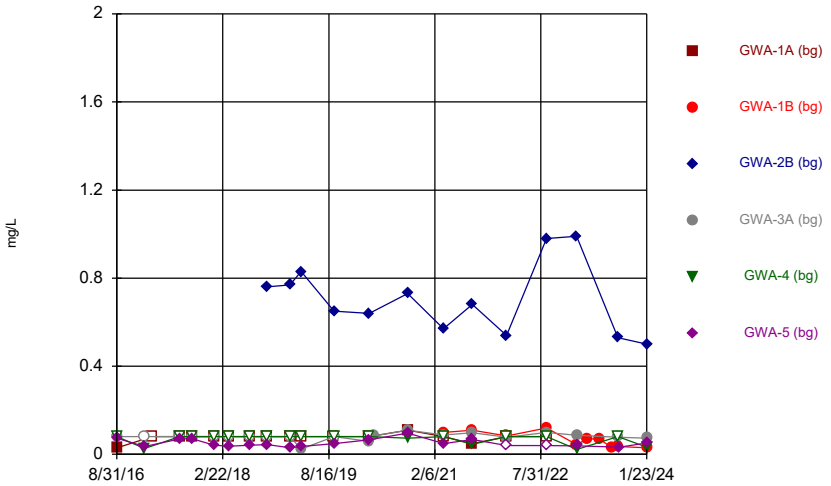
Time Series



Constituent: Beryllium Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

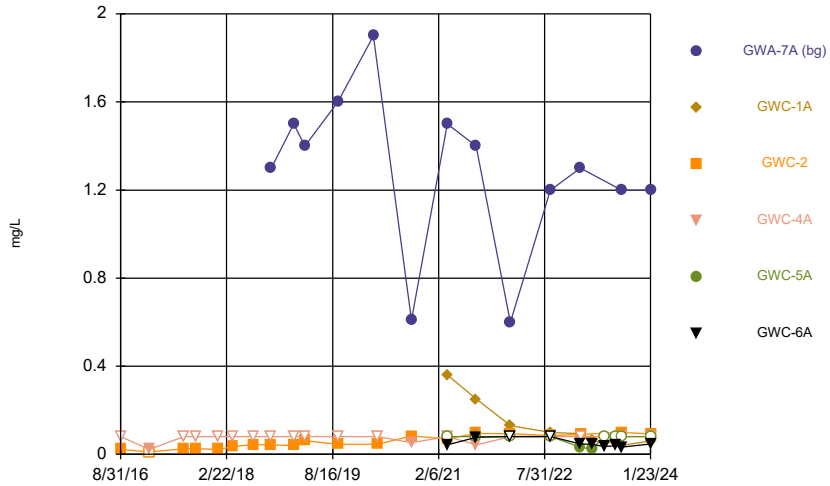
Time Series



Constituent: Boron Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

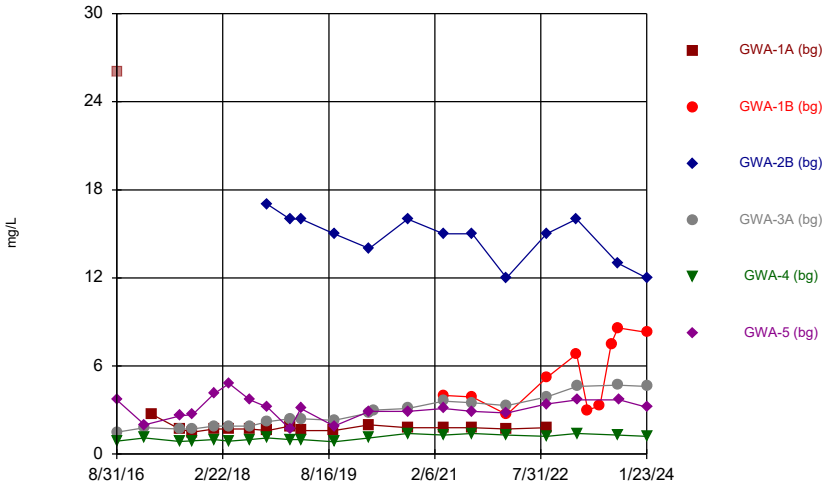
Time Series



Constituent: Boron Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

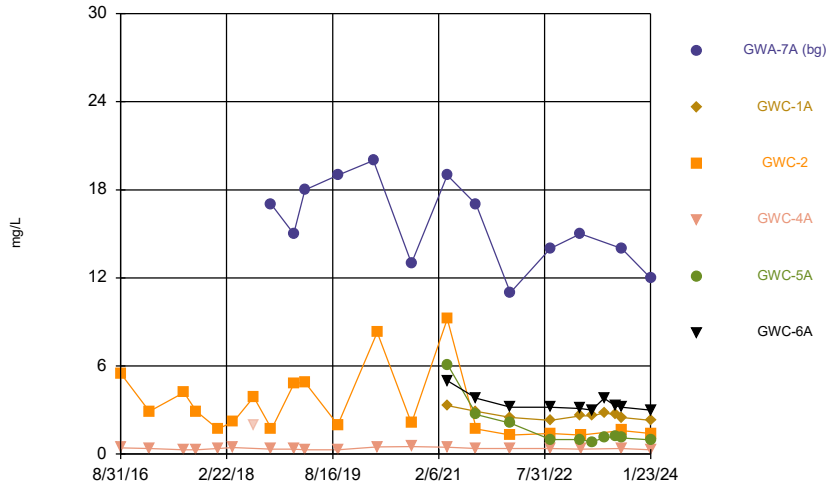
Time Series



Constituent: Calcium Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

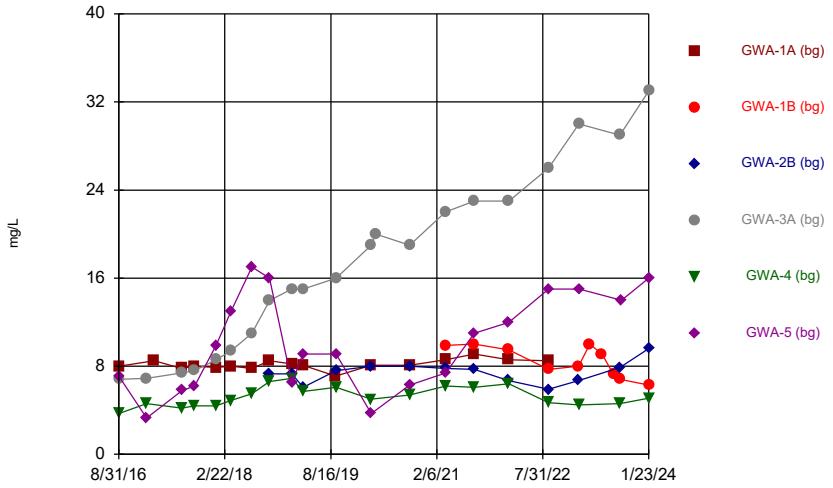
Time Series



Constituent: Calcium Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

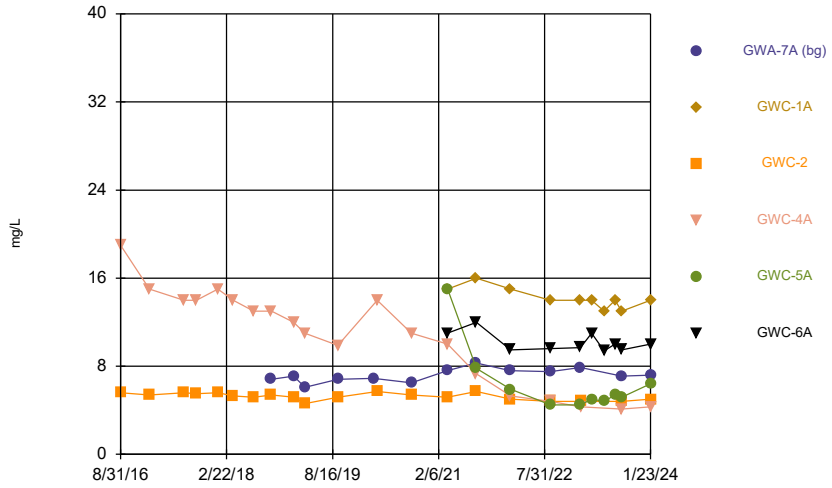
Time Series



Constituent: Chloride Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

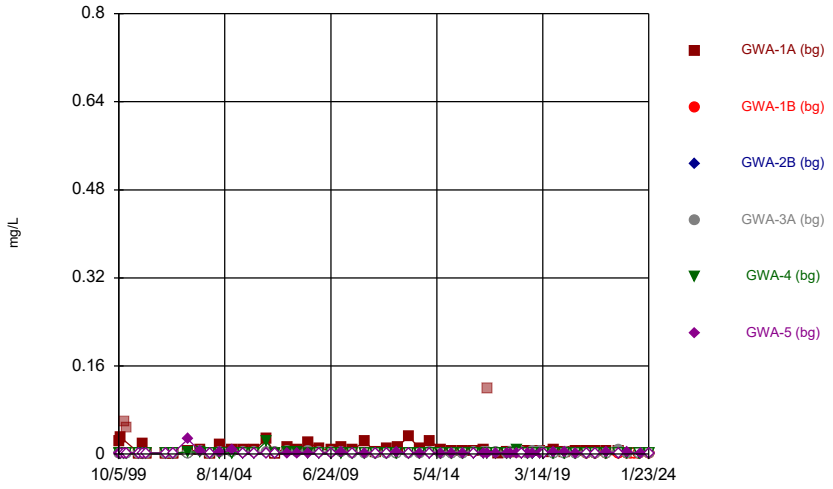
Time Series



Constituent: Chloride Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

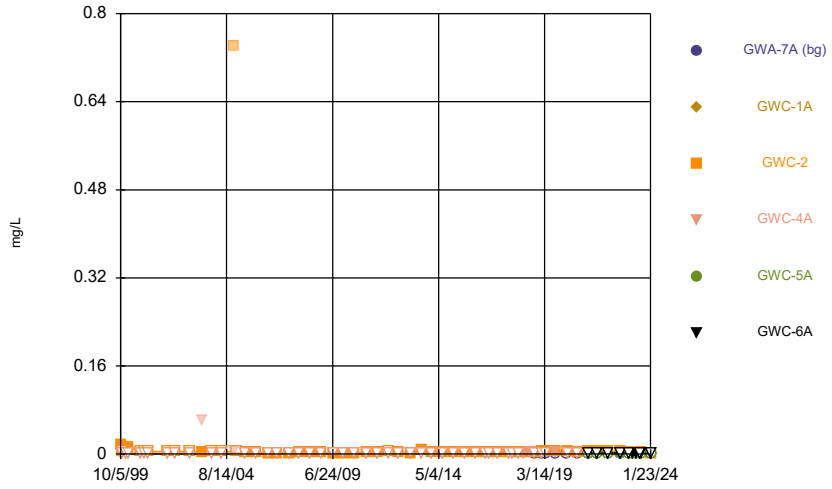
Time Series



Constituent: Chromium Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

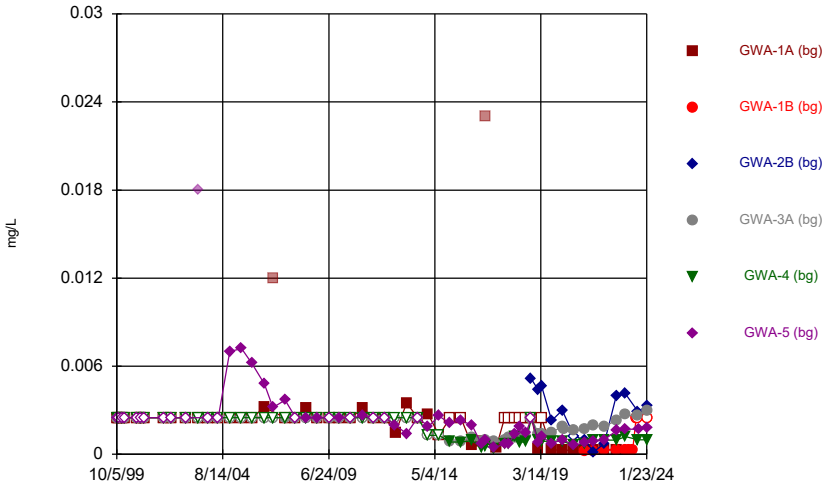
Time Series



Constituent: Chromium Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

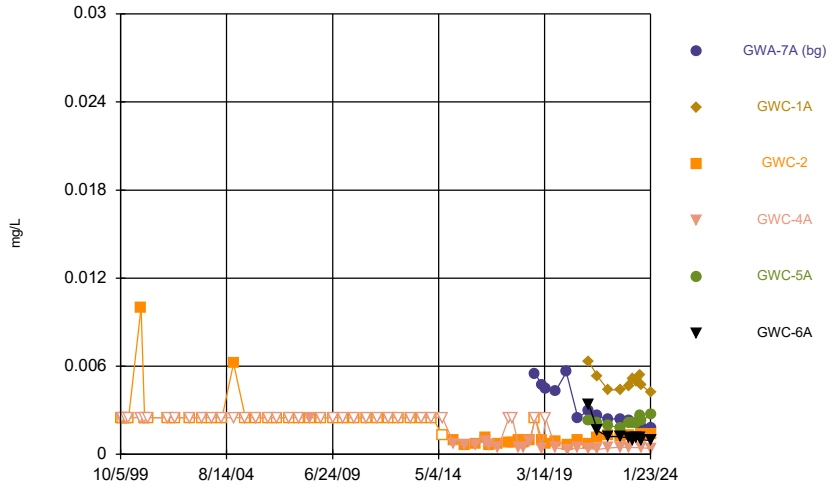
Time Series



Constituent: Cobalt Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

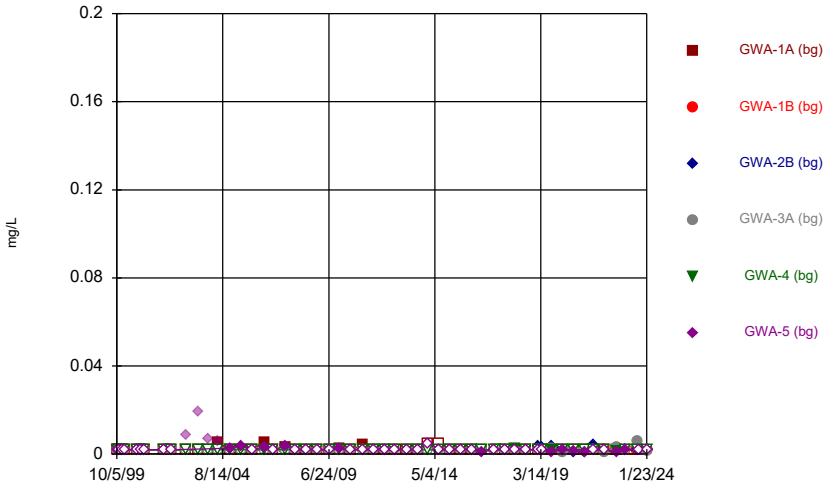
Time Series



Constituent: Cobalt Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

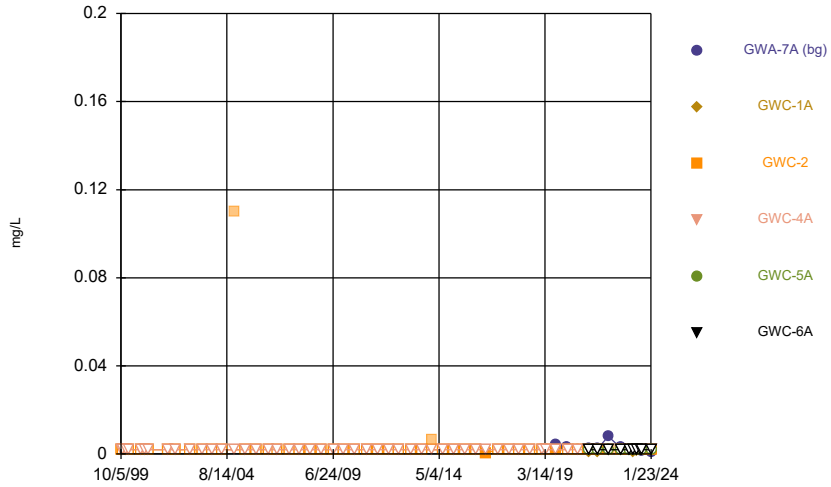
Time Series



Constituent: Copper Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

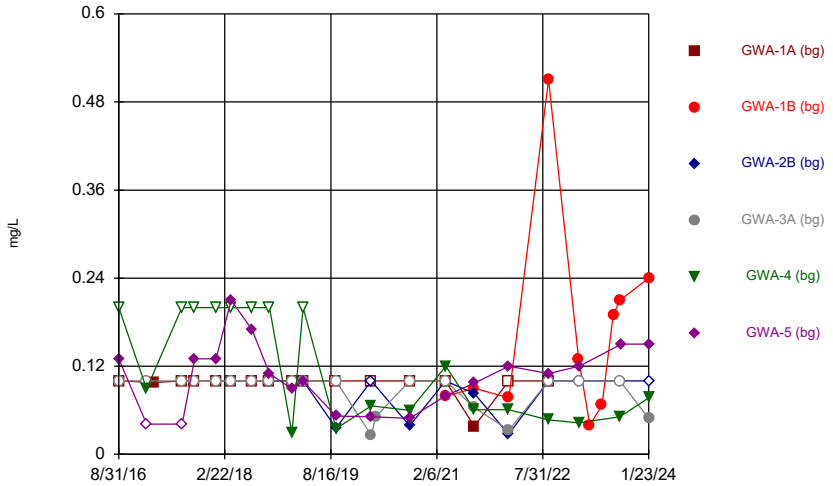
Time Series



Constituent: Copper Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

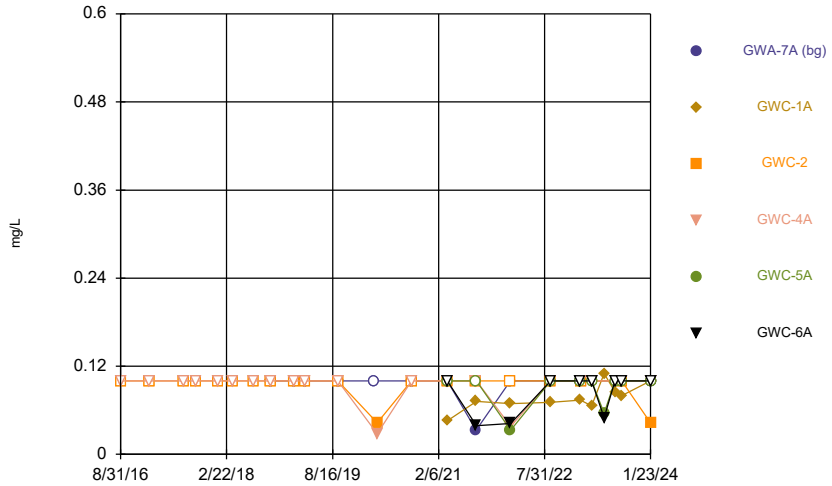
Time Series



Constituent: Fluoride Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

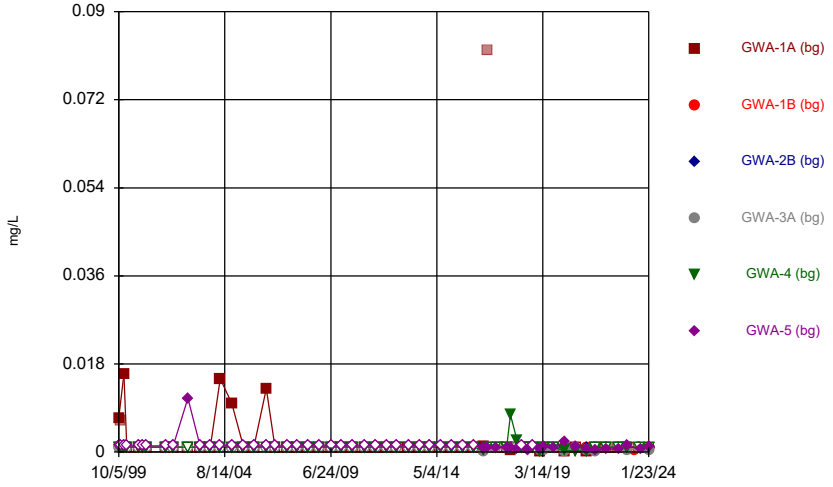
Time Series



Constituent: Fluoride Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

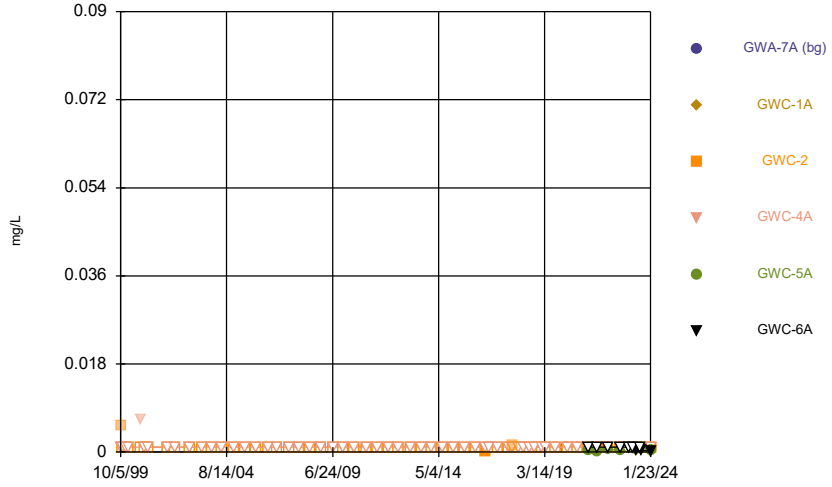
Time Series



Constituent: Lead Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

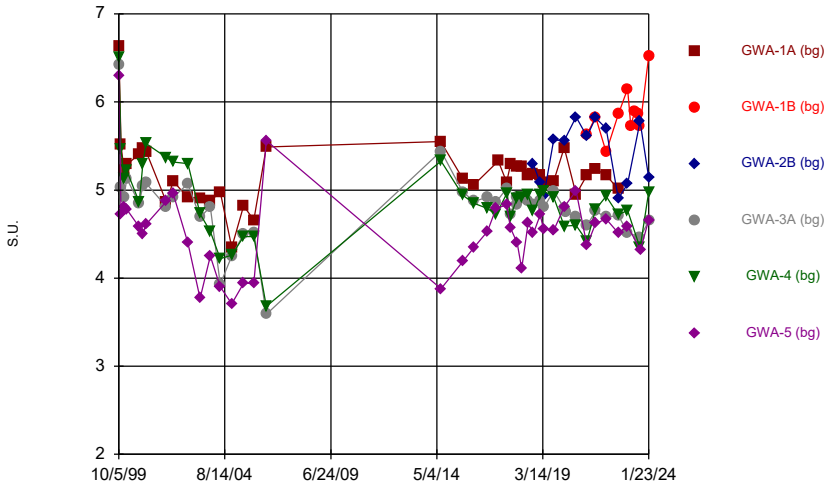
Time Series



Constituent: Lead Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

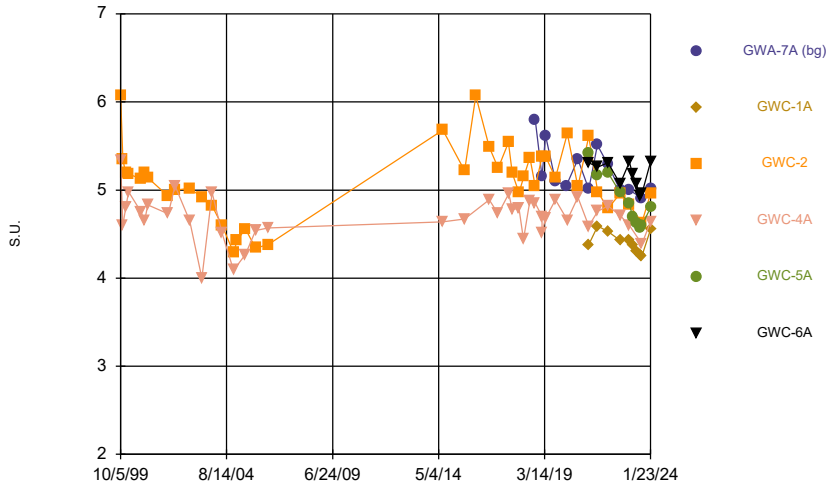
Time Series



Constituent: pH Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

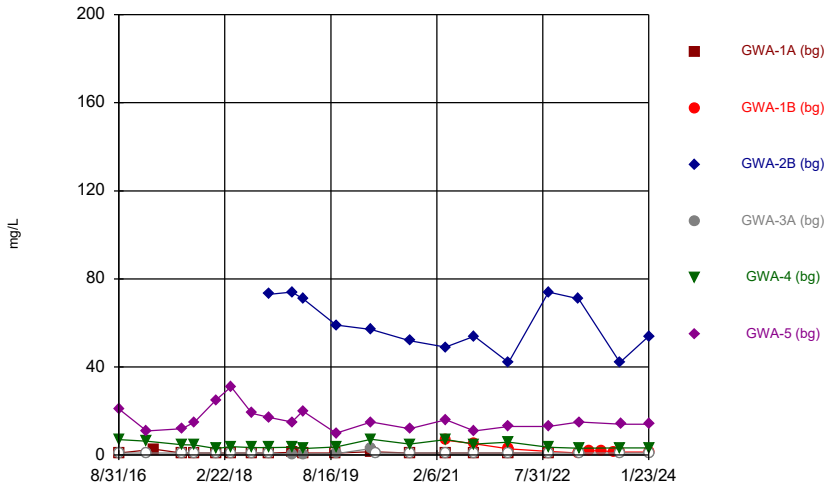
Time Series



Constituent: pH Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

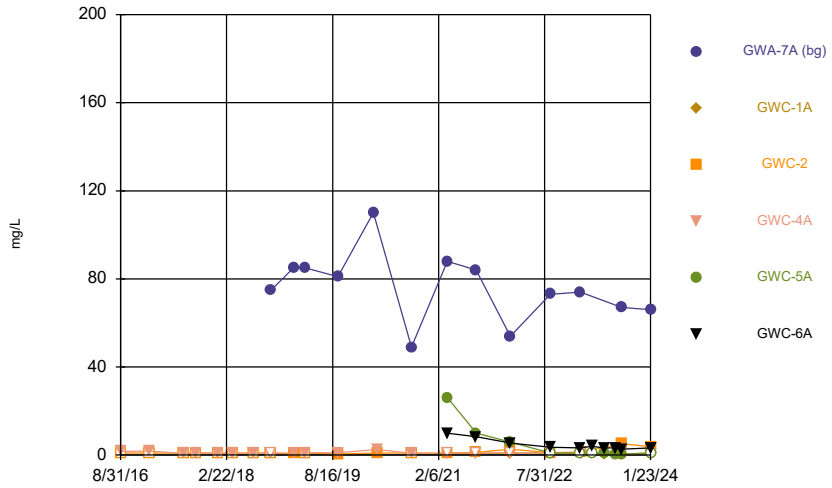
Time Series



Constituent: Sulfate Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

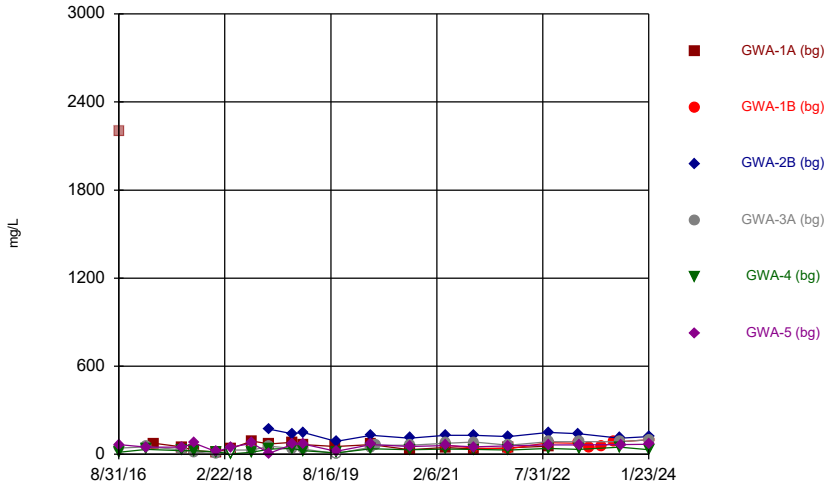
Time Series



Constituent: Sulfate Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

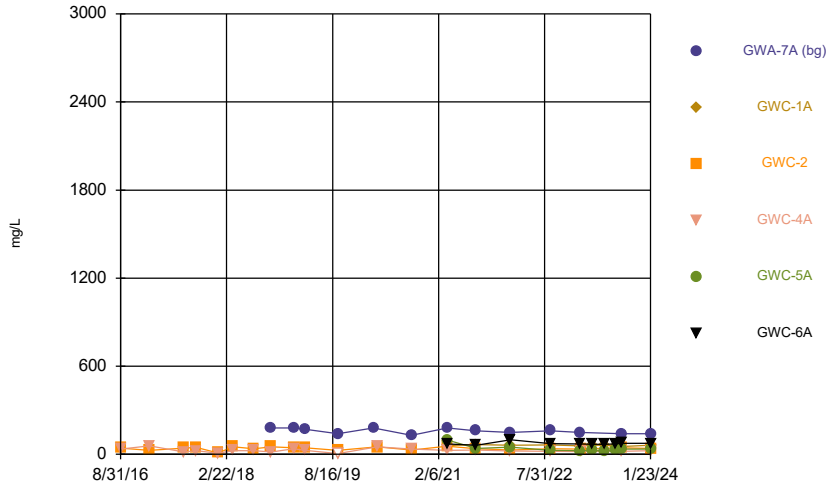
Time Series



Constituent: Total Dissolved Solids Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

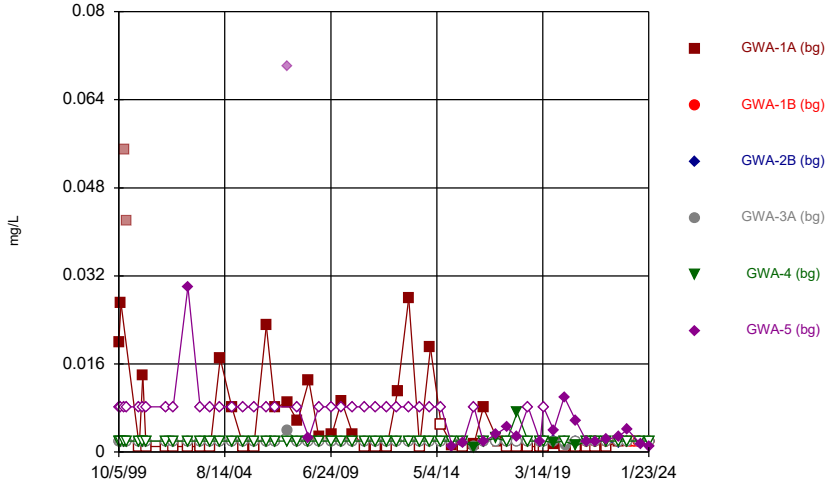
Time Series



Constituent: Total Dissolved Solids Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

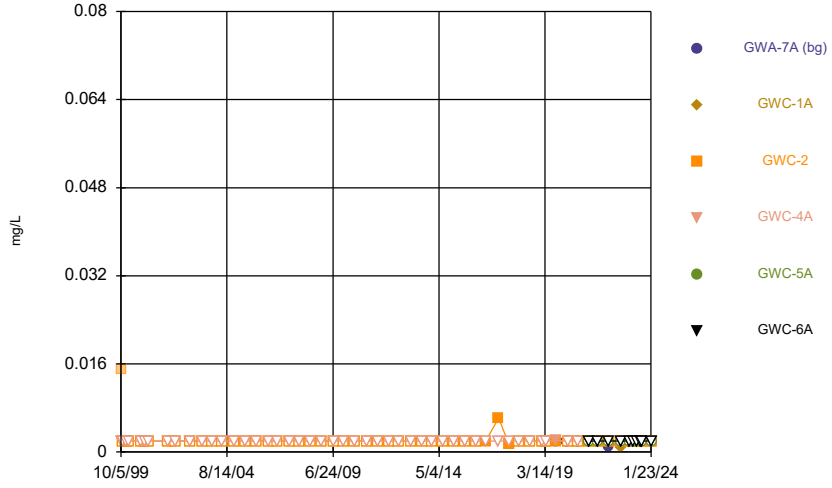
Time Series



Constituent: Vanadium Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

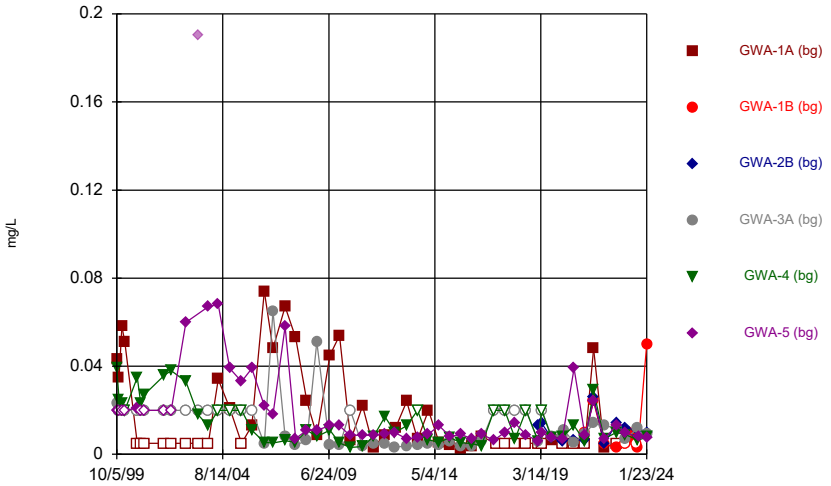
Time Series



Constituent: Vanadium Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

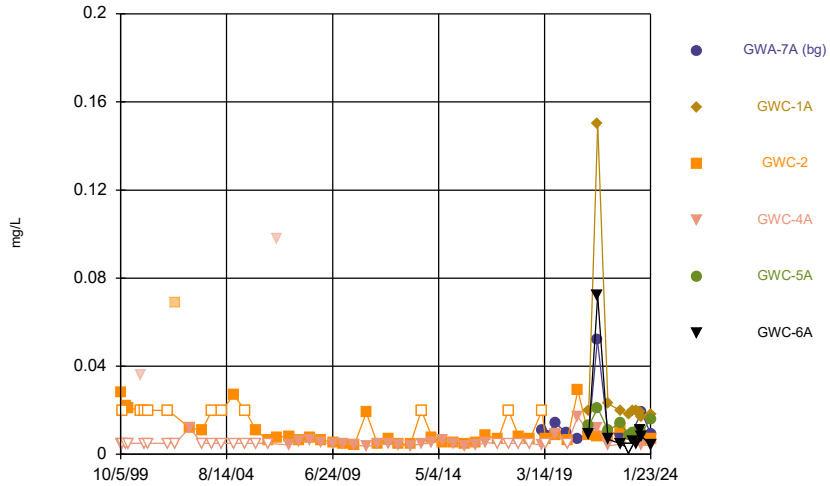
Time Series



Constituent: Zinc Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 2/9/2024 5:03 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Time Series

Constituent: Barium (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

Time Series

Constituent: Barium (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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)

Time Series

Constituent: Boron (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

Time Series

Constituent: Calcium (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

Time Series

Constituent: Chloride (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

Time Series

Constituent: Chloride (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

Time Series

Constituent: Chromium (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Chromium (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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					

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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		

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Copper (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Copper (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Copper (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Copper (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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				<0.1	<0.2	0.13 (J)
9/1/2016	<0.1					
1/19/2017				<0.1	0.089 (J)	<0.082
2/28/2017	0.098 (J)					
7/17/2017	<0.1					
7/18/2017				<0.1	<0.2	
7/19/2017						<0.082
9/20/2017	<0.1			<0.1		
9/21/2017					<0.2	0.13 (J)
1/8/2018	<0.1					
1/9/2018				<0.1	<0.2	0.13 (J)
3/27/2018	<0.1			<0.1	<0.2	0.21
7/10/2018	<0.1			<0.1	<0.2	0.17 (J)
10/8/2018	<0.1		<0.1		<0.2	0.11 (J)
10/9/2018				<0.1		
1/30/2019	<0.1		<0.1	<0.1	0.029 (J)	0.089 (J)
3/27/2019	<0.1					0.1 (J)
3/28/2019			<0.1	<0.1	<0.2	
9/11/2019	<0.1					
9/12/2019			0.036 (J)	<0.1	0.035 (J)	0.052 (J)
3/10/2020	<0.1		<0.1	0.026 (J)	0.066 (J)	0.051 (J)
4/2/2020				0.051 (J)		
9/21/2020	<0.1			<0.1	0.06 (J)	
9/22/2020			0.039 (J)			0.049 (J)
3/23/2021	<0.1	0.079 (J)	<0.1	<0.1		
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	<0.1	<0.1	0.047 (J)	0.11
1/31/2023		0.13	<0.1			
2/1/2023				<0.1	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			<0.1	<0.1		
9/6/2023						0.15
1/23/2024		0.24	<0.1	0.049 (J)	0.077 (J)	0.15

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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	<0.1					
10/9/2018			<0.1	<0.1		
1/30/2019	<0.1			<0.1		
1/31/2019			<0.1			
3/28/2019	<0.1		<0.1	<0.1		
9/12/2019	<0.1		<0.1	<0.1		
3/11/2020	<0.1					
3/31/2020			0.043 (J)	0.028 (J)		
9/21/2020	<0.1					
9/22/2020			<0.1	<0.1		
3/23/2021	<0.1		<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	<0.1					
2/8/2022			<0.1		0.033 (J)	
2/9/2022		0.069 (J)		0.038 (J)		0.042 (J)
8/30/2022	<0.1	0.071 (J)	<0.1	<0.1		
8/31/2022					<0.1	<0.1
1/31/2023	<0.1	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	<0.1					
8/29/2023		0.08 (J)	<0.1	<0.1	<0.1	<0.1
1/23/2024	<0.1	0.1	0.043 (J)	<0.1	<0.1	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH (S.U.) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

Time Series

Constituent: pH (S.U.) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

Time Series

Constituent: Sulfate (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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	7	21
9/1/2016	<1					
1/19/2017				<1	6.3	11
2/28/2017	2.7					
7/17/2017	<1					
7/18/2017				<1	4.7	
7/19/2017						12
9/20/2017	<1			<1		
9/21/2017					4.5	15
1/8/2018	<1					
1/9/2018				<1	3	25
3/27/2018	<1			<1	3.8	31
7/10/2018	<1			<1	3.4	19
10/8/2018	<1		73		3.4	17
10/9/2018				<1		
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				<1		
9/21/2020	<1			<1	5	
9/22/2020			52			12
3/23/2021	<1	6.8	49	<1		
3/24/2021					7	16
8/17/2021	<1	5.2	54	<1	5	11
2/7/2022			42			
2/8/2022	<1	2.8		<1	5.9	13
8/30/2022	<1	1.6	74	<1	3.5	13
1/31/2023		1	71			
2/1/2023				<1	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	<1		
9/6/2023						14
1/23/2024		1.4	54	<1	3.3	14

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

Plant McIntosh 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		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 2/9/2024 5:04 PM View: Constituents View

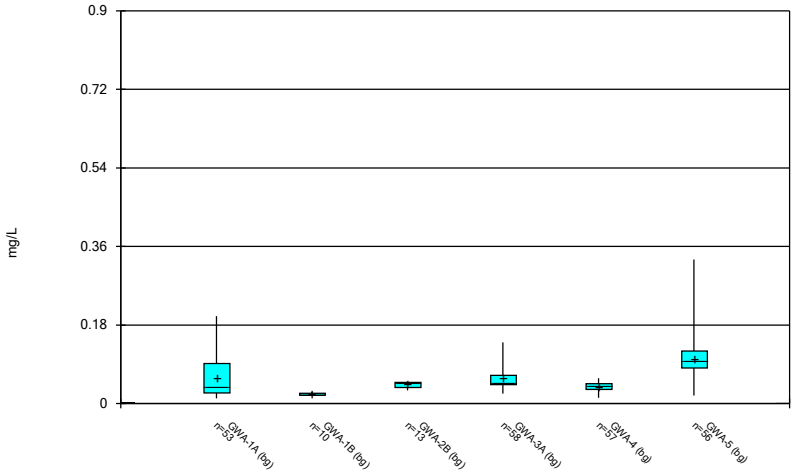
Plant McIntosh Data: McIntosh LF 3 CCR

	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)

FIGURE B.

Sanitas™ v.10.0.15 . UG

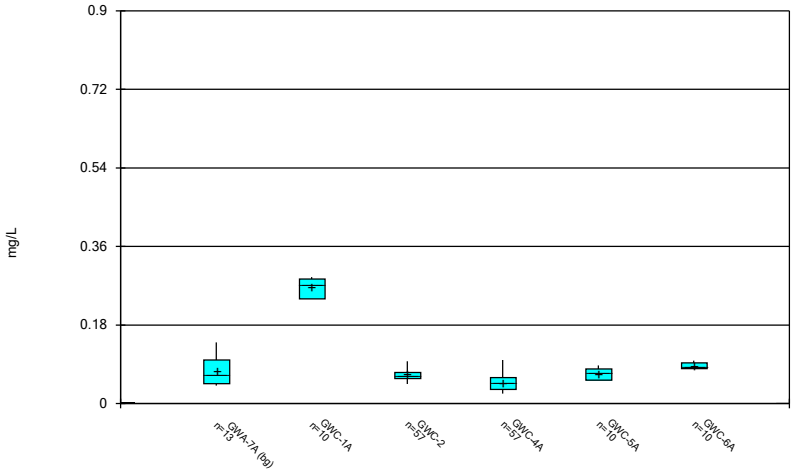
Box & Whiskers Plot



Constituent: Barium Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

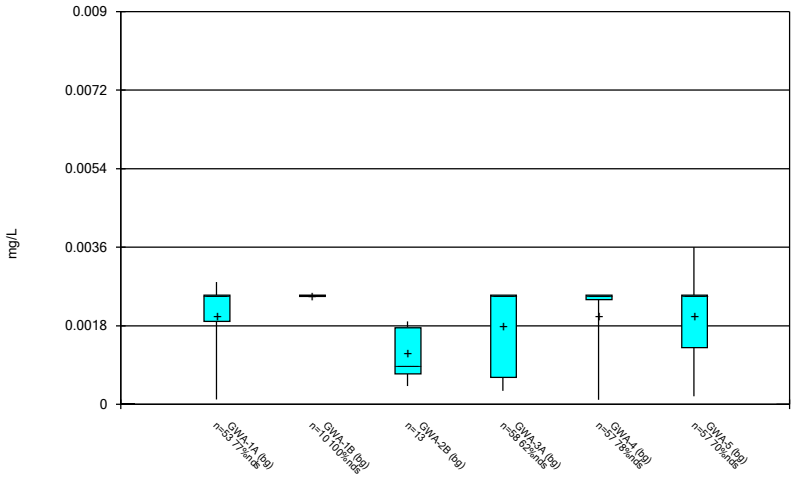
Box & Whiskers Plot



Constituent: Barium Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

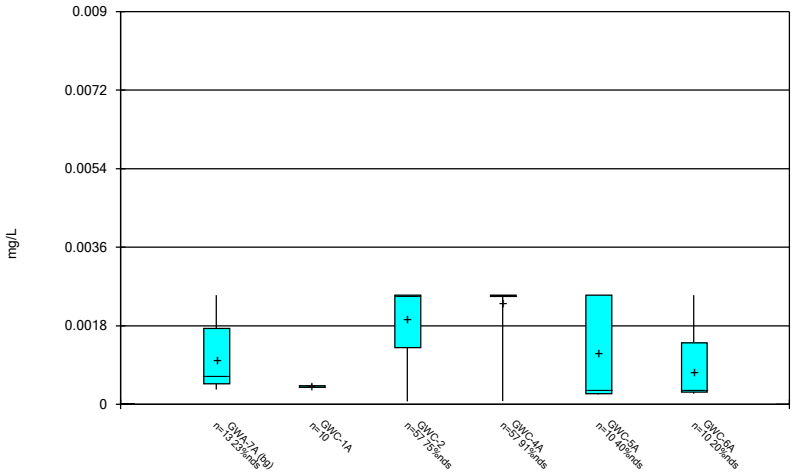
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

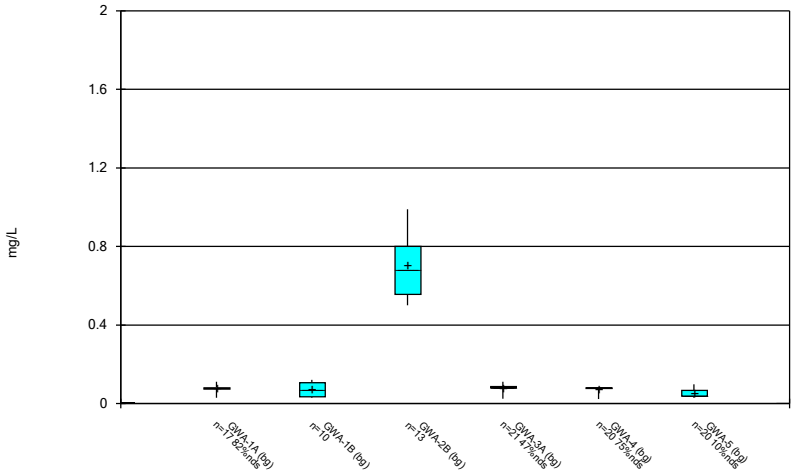
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

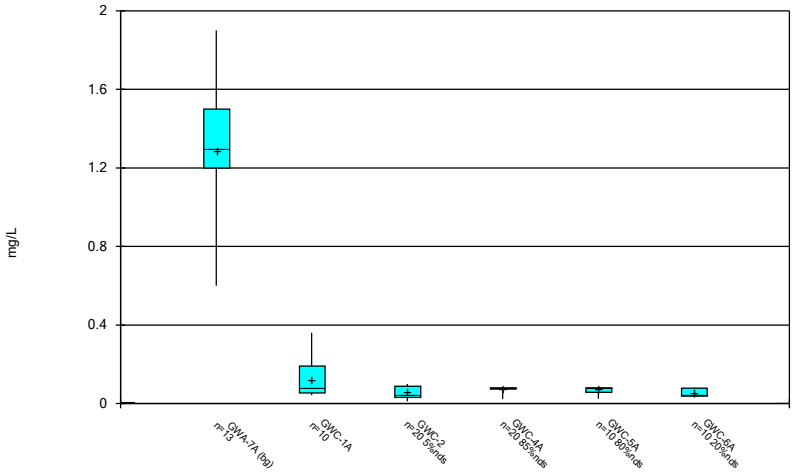
Box & Whiskers Plot



Constituent: Boron Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

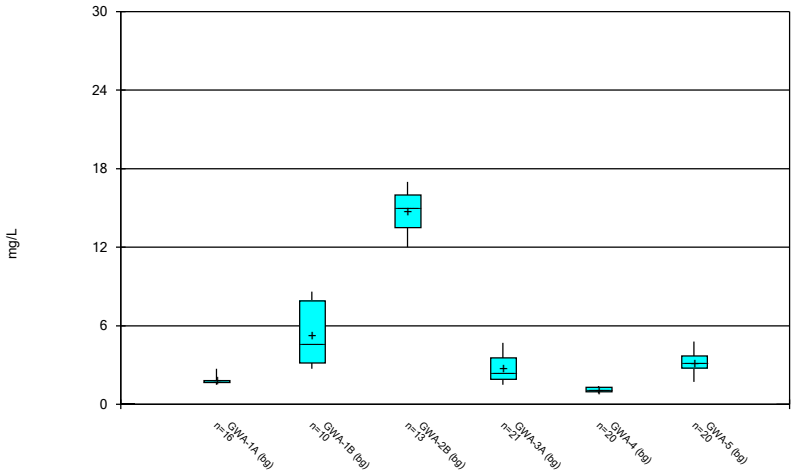
Box & Whiskers Plot



Constituent: Boron Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

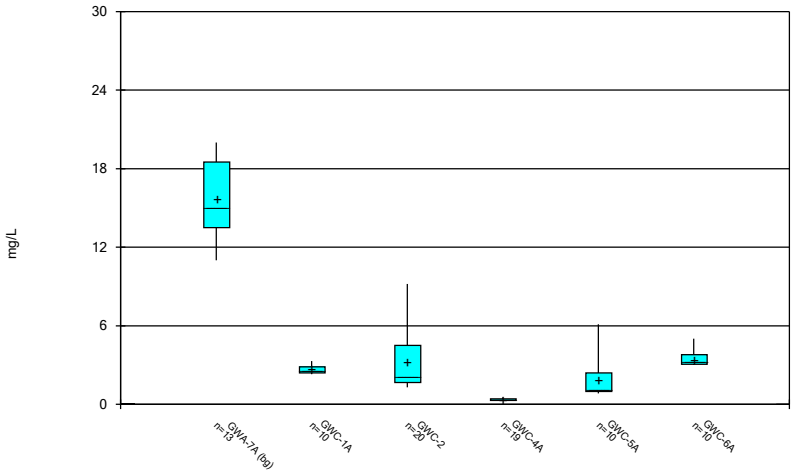
Box & Whiskers Plot



Constituent: Calcium Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

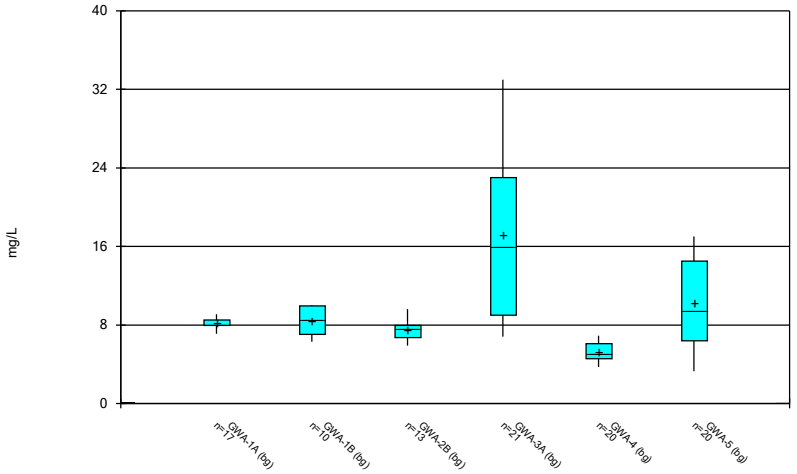
Box & Whiskers Plot



Constituent: Calcium Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

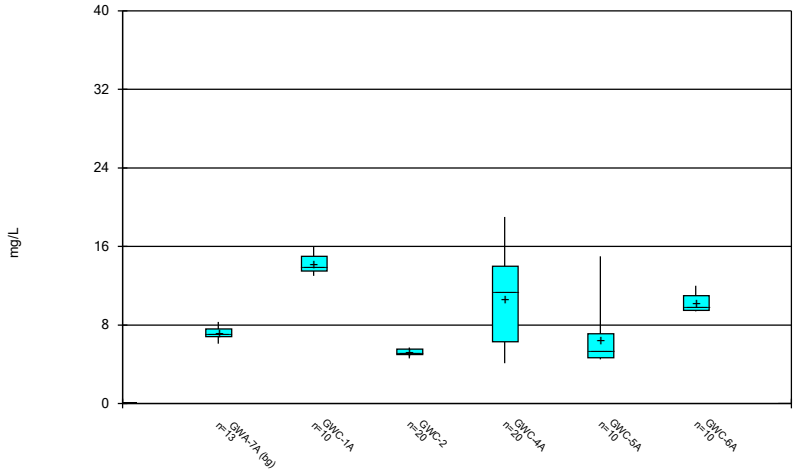
Box & Whiskers Plot



Constituent: Chloride Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

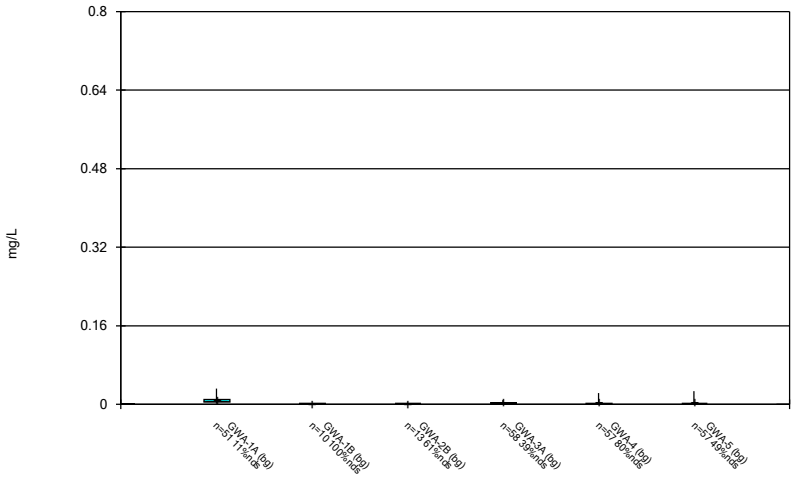
Box & Whiskers Plot



Constituent: Chloride Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

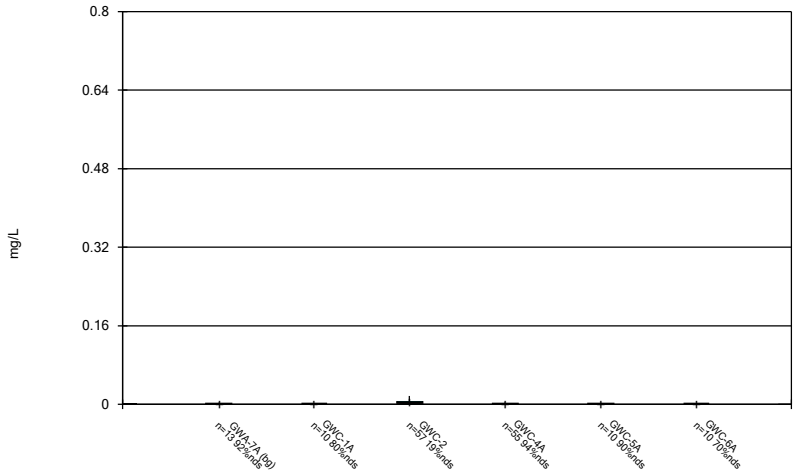
Box & Whiskers Plot



Constituent: Chromium Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

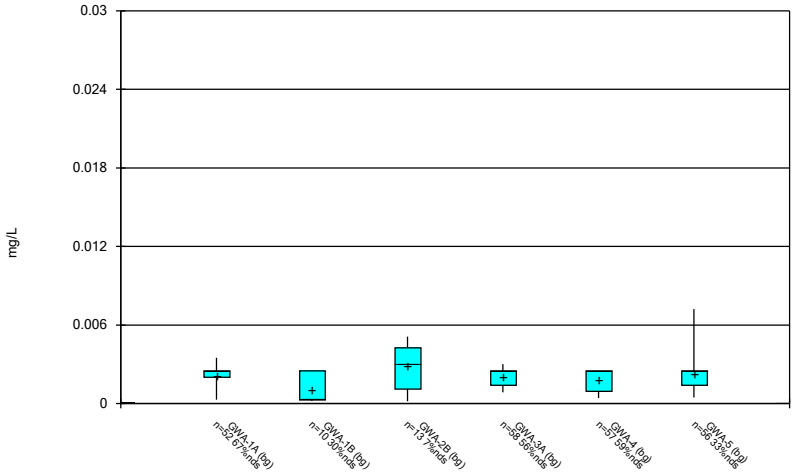
Box & Whiskers Plot



Constituent: Chromium Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

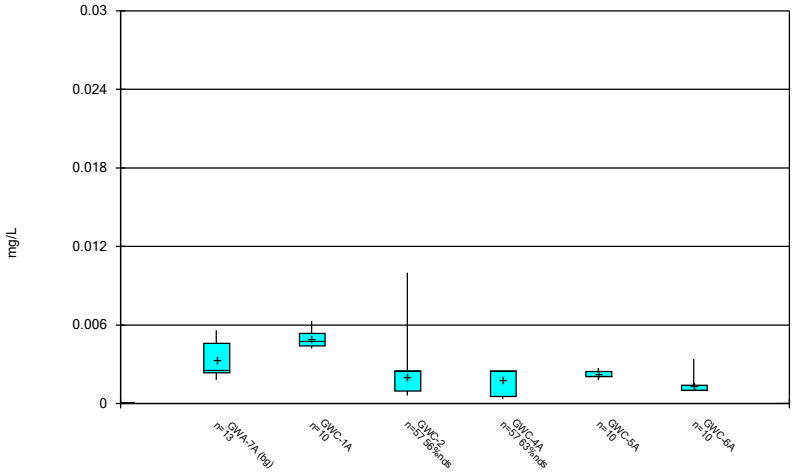
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

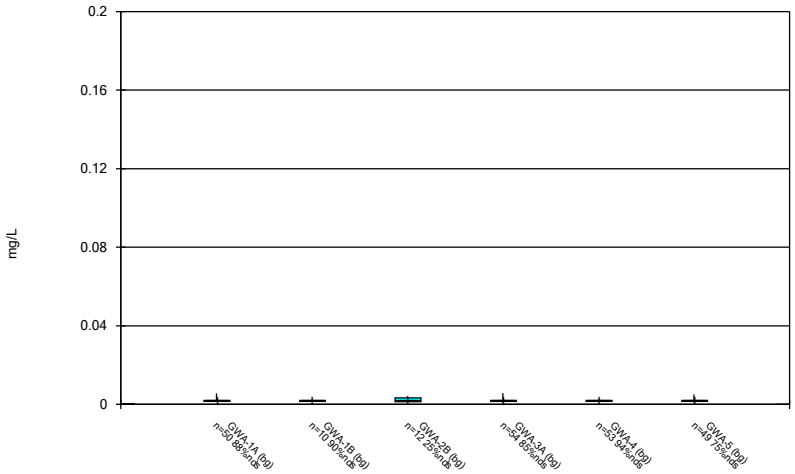
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

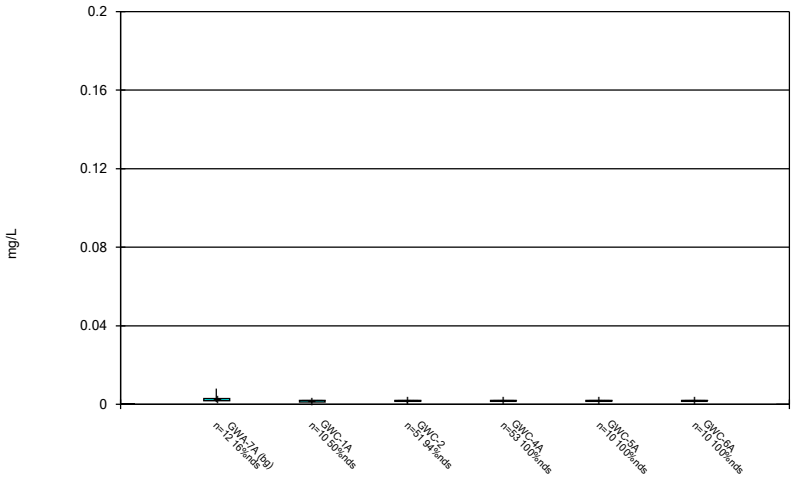
Box & Whiskers Plot



Constituent: Copper Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

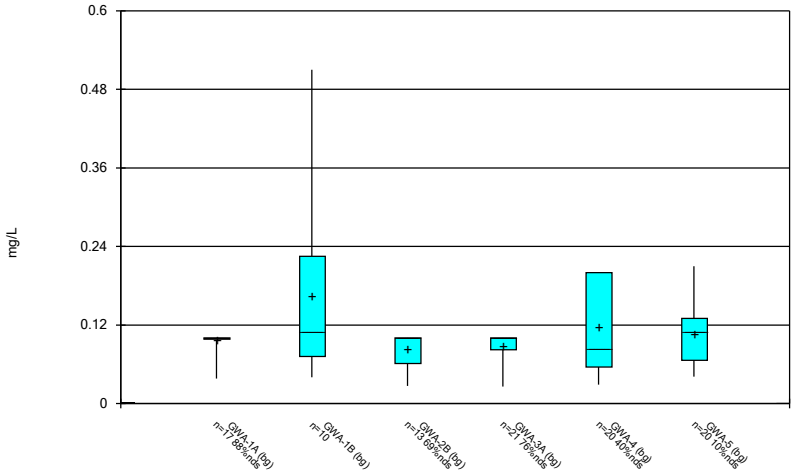
Box & Whiskers Plot



Constituent: Copper Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

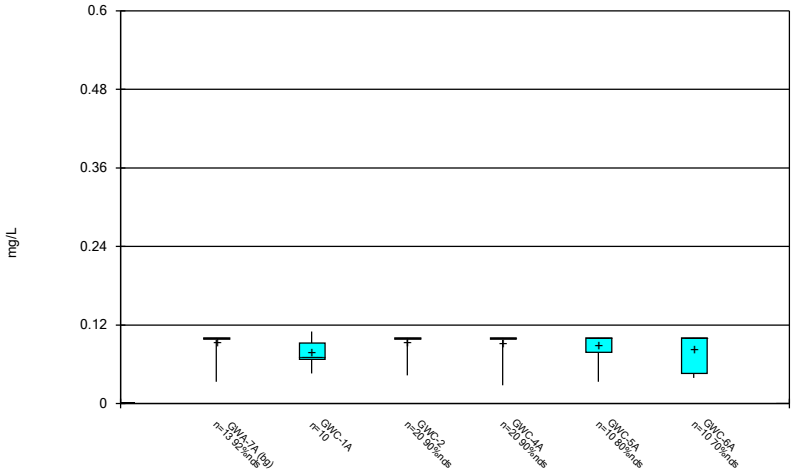
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

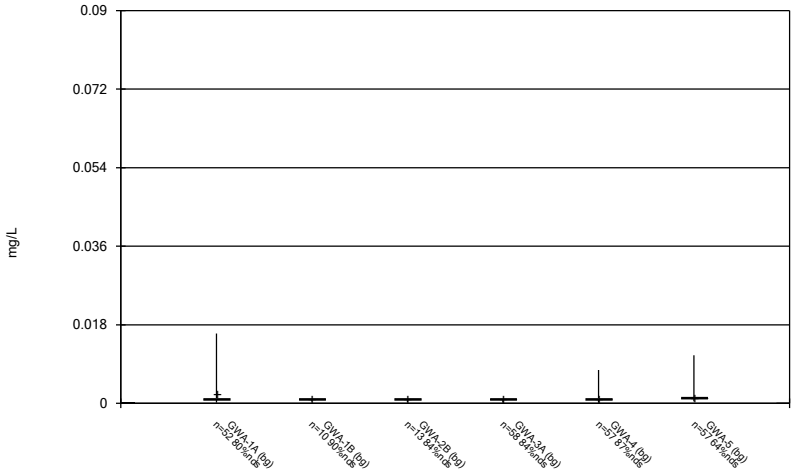
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

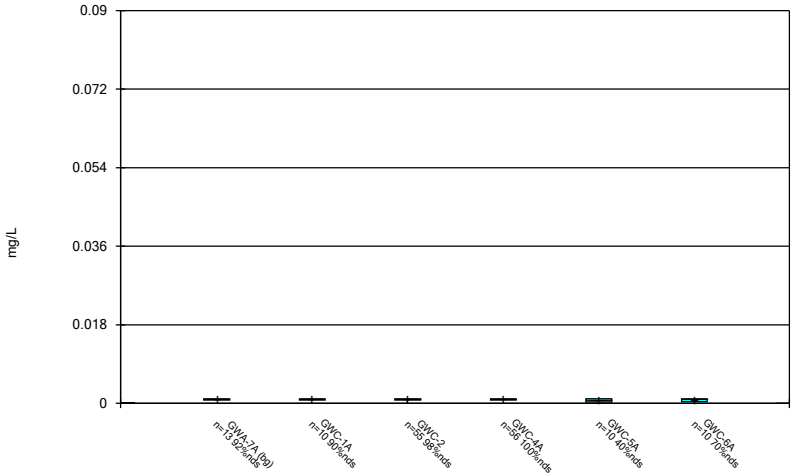
Box & Whiskers Plot



Constituent: Lead Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

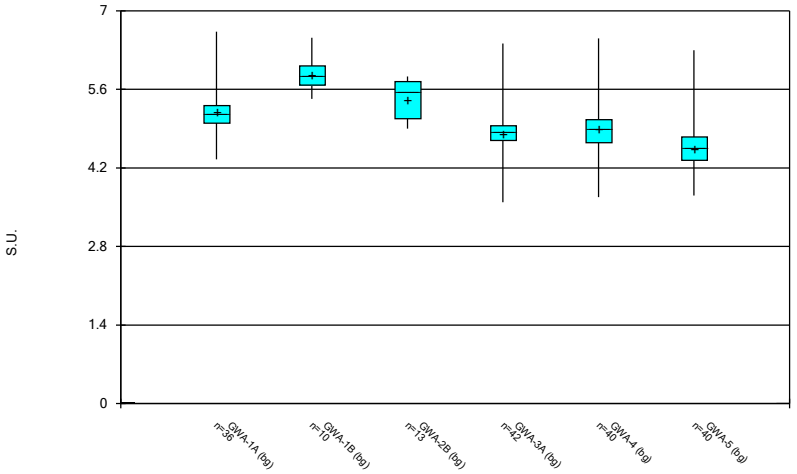
Box & Whiskers Plot



Constituent: Lead Analysis Run 2/9/2024 5:05 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

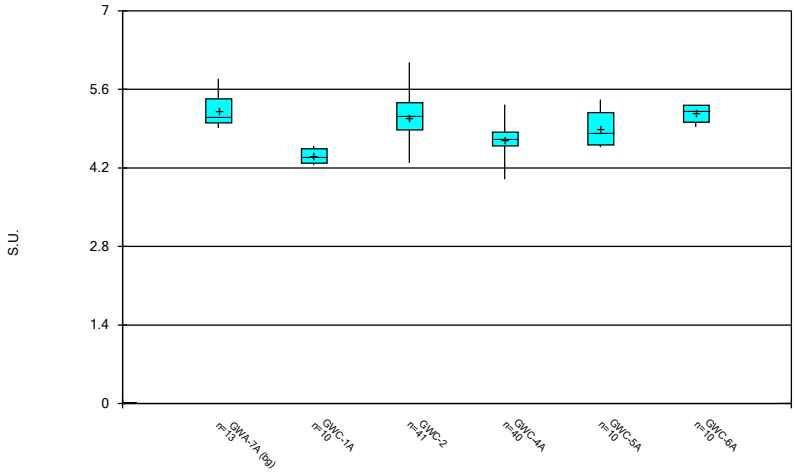
Box & Whiskers Plot



Constituent: pH Analysis Run 2/9/2024 5:06 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

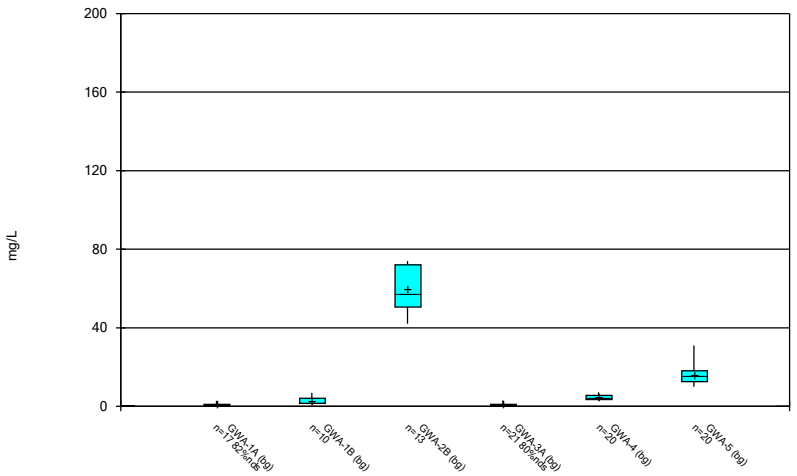
Box & Whiskers Plot



Constituent: pH Analysis Run 2/9/2024 5:06 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

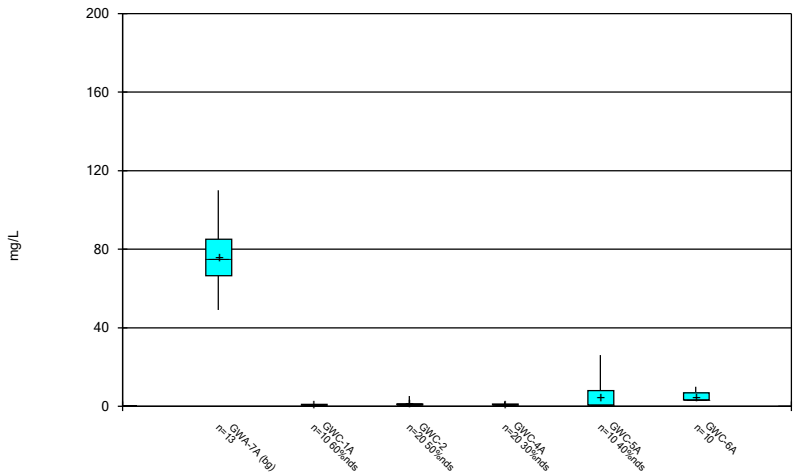
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 2/9/2024 5:06 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

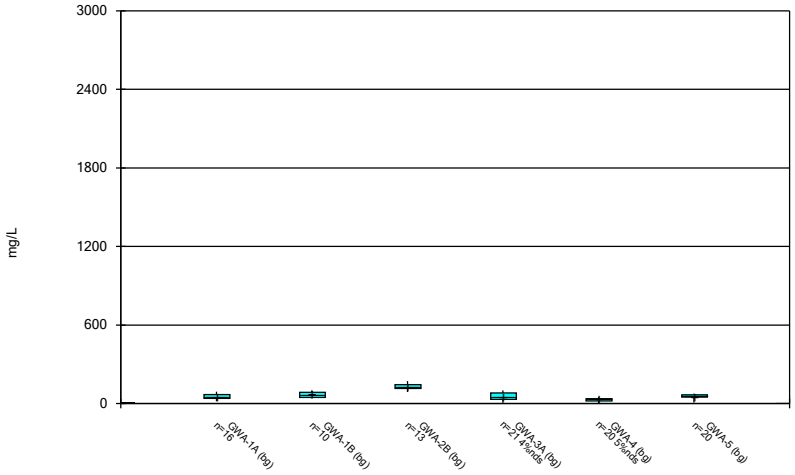
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 2/9/2024 5:06 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

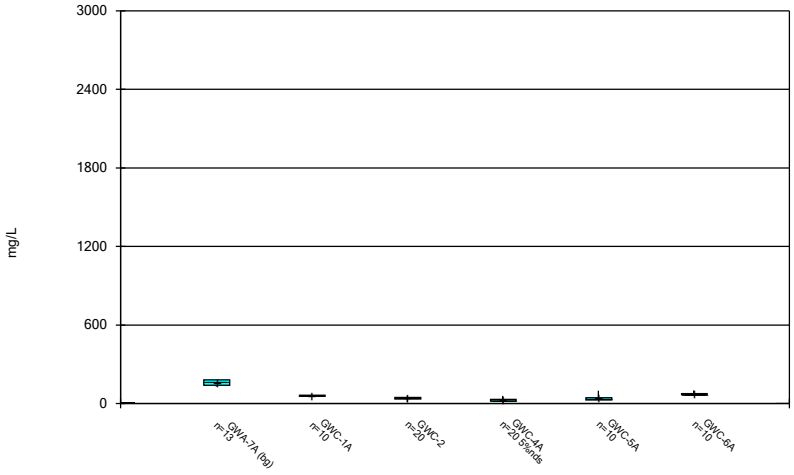
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 2/9/2024 5:06 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

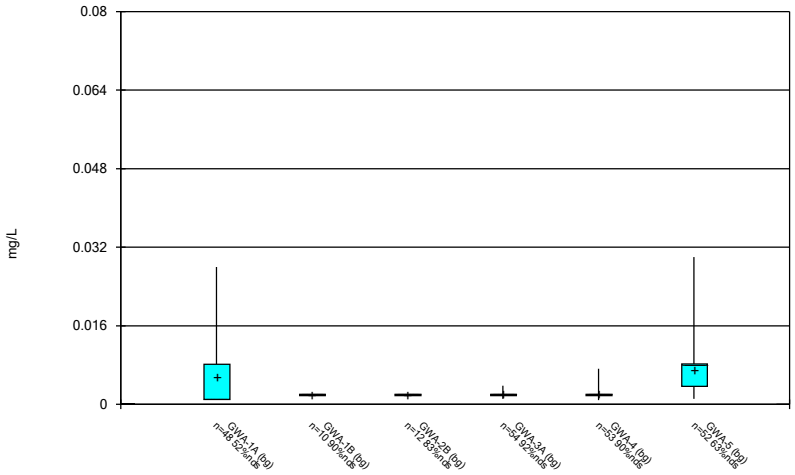
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 2/9/2024 5:06 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

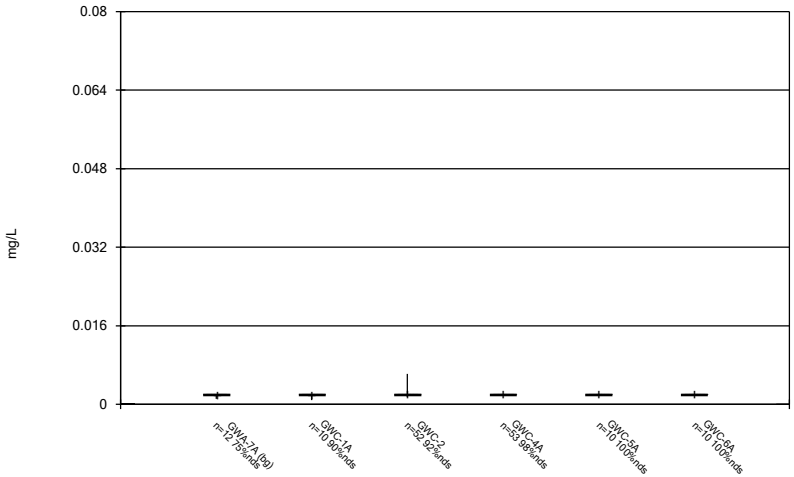
Box & Whiskers Plot



Constituent: Vanadium Analysis Run 2/9/2024 5:06 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

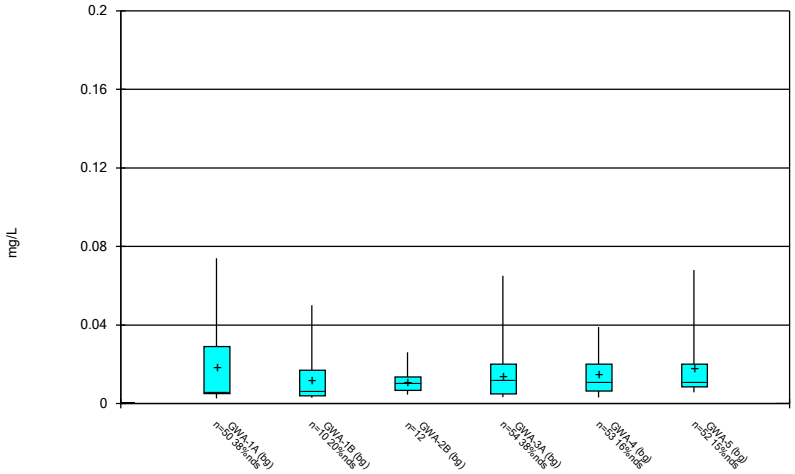
Sanitas™ v.10.0.15 . UG

Box & Whiskers Plot



Constituent: Vanadium Analysis Run 2/9/2024 5:06 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

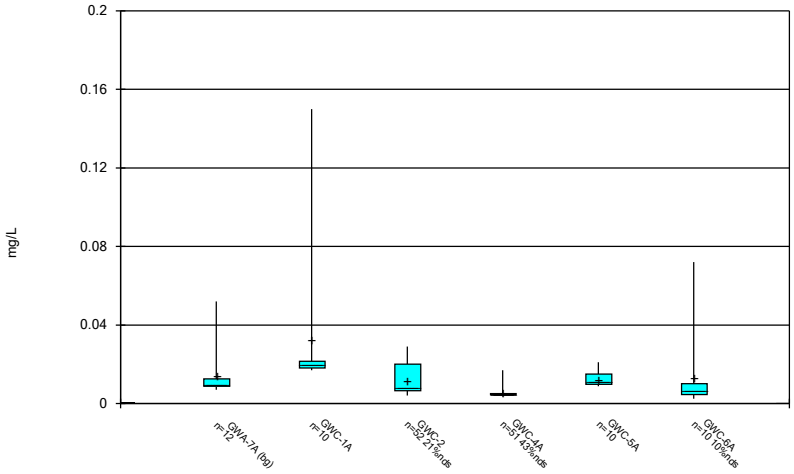
Box & Whiskers Plot



Constituent: Zinc Analysis Run 2/9/2024 5:06 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

Box & Whiskers Plot



Constituent: Zinc Analysis Run 2/9/2024 5:06 PM View: Constituents View
Plant McIntosh Data: McIntosh LF 3 CCR

FIGURE C.

Outlier Summary

Plant McIntosh Data: McIntosh LF 3 CCR Printed 2/9/2024, 5:09 PM

	GWA-1A Barium (mg/L)	GWA-5 Barium (mg/L)	GWA-1A Beryllium (mg/L)	GWA-1A Calcium (mg/L)	GWC-4A Calcium (mg/L)	GWA-1A Chromium (mg/L)	GWC-2 Chromium (mg/L)	GWC-4A Chromium (mg/L)	GWA-1A Cobalt (mg/L)	GWA-5 Cobalt (mg/L)
10/5/1999										
11/12/1999										
12/29/1999						0.059 (o)				
2/17/2000						0.048 (o)				
9/13/2000										
4/4/2002										
12/6/2002										
6/28/2003								0.061 (o)		0.018 (o)
12/13/2003										
5/28/2004										
12/10/2004							0.74 (o)	0.0059 (o)		
12/1/2006									0.012 (o)	
6/21/2007										
1/17/2014										
9/1/2016	0.86 (o)		0.0084 (o)	26 (o)		0.12 (o)			0.023 (o)	
9/21/2017										
7/10/2018		0.14 (o)			2 (o)					

	GWA-5 Copper (mg/L)	GWC-2 Copper (mg/L)	GWA-1A Lead (mg/L)	GWC-2 Lead (mg/L)	GWC-4A Lead (mg/L)	GWA-1A Total Dissolved Solids (mg/L)	GWA-1A Vanadium (mg/L)	GWA-5 Vanadium (mg/L)	GWC-2 Vanadium (mg/L)	GWA-5 Zinc (mg/L)
10/5/1999				0.0054 (o)					0.015 (o)	
11/12/1999			0.0063 (o)							
12/29/1999							0.055 (o)			
2/17/2000							0.042 (o)			
9/13/2000					0.0067 (o)					
4/4/2002										
12/6/2002	0.0089 (o)									
6/28/2003	0.019 (o)									0.19 (o)
12/13/2003	0.0067 (o)									
5/28/2004	0.0057 (o)									
12/10/2004		0.11 (o)								
12/1/2006										
6/21/2007								0.07 (o)		
1/17/2014		0.0065 (o)								
9/1/2016			0.082 (o)			2200 (o)				
9/21/2017				0.0014 (o)						
7/10/2018										

Outlier Summary

Plant McIntosh Data: McIntosh LF 3 CCR Printed 2/9/2024, 5:09 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.

Appendix III - Interwell Prediction Limits - All Results (No Significant)

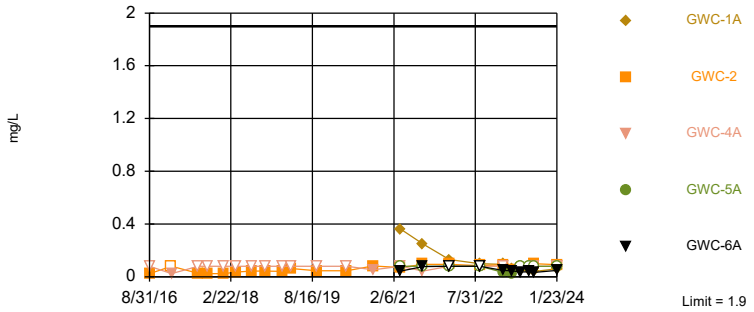
Plant McIntosh Data: McIntosh LF 3 CCR Printed 2/9/2024, 1:58 PM

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	1/23/2024	0.06J	No	114	n/a	n/a	35.96	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2	1.9	n/a	1/23/2024	0.092	No	114	n/a	n/a	35.96	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4A	1.9	n/a	1/23/2024	0.08ND	No	114	n/a	n/a	35.96	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-5A	1.9	n/a	1/23/2024	0.08ND	No	114	n/a	n/a	35.96	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6A	1.9	n/a	1/23/2024	0.047J	No	114	n/a	n/a	35.96	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1A	20	n/a	1/23/2024	2.3	No	113	n/a	n/a	0	n/a	n/a	0.0001555	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2	20	n/a	1/23/2024	1.4	No	113	n/a	n/a	0	n/a	n/a	0.0001555	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4A	20	n/a	1/23/2024	0.3J	No	113	n/a	n/a	0	n/a	n/a	0.0001555	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5A	20	n/a	1/23/2024	0.96	No	113	n/a	n/a	0	n/a	n/a	0.0001555	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6A	20	n/a	1/23/2024	3	No	113	n/a	n/a	0	n/a	n/a	0.0001555	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1A	33	n/a	1/23/2024	14	No	114	n/a	n/a	0	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2	33	n/a	1/23/2024	5	No	114	n/a	n/a	0	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4A	33	n/a	1/23/2024	4.3	No	114	n/a	n/a	0	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5A	33	n/a	1/23/2024	6.4	No	114	n/a	n/a	0	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6A	33	n/a	1/23/2024	10	No	114	n/a	n/a	0	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Fluoride (mg/L)	GWC-1A	0.51	n/a	1/23/2024	0.1	No	114	n/a	n/a	54.39	n/a	n/a	0.0001526	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-2	0.51	n/a	1/23/2024	0.043J	No	114	n/a	n/a	54.39	n/a	n/a	0.0001526	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-4A	0.51	n/a	1/23/2024	0.1ND	No	114	n/a	n/a	54.39	n/a	n/a	0.0001526	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-5A	0.51	n/a	1/23/2024	0.1ND	No	114	n/a	n/a	54.39	n/a	n/a	0.0001526	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GWC-6A	0.51	n/a	1/23/2024	0.1ND	No	114	n/a	n/a	54.39	n/a	n/a	0.0001526	NP Inter (NDs) 1 of 2
pH (S.U.)	GWC-1A	5.917	4.063	1/23/2024	4.55	No	194	2.224	0.1166	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-2	5.917	4.063	1/23/2024	4.96	No	194	2.224	0.1166	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-4A	5.917	4.063	1/23/2024	4.64	No	194	2.224	0.1166	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-5A	5.917	4.063	1/23/2024	4.8	No	194	2.224	0.1166	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
pH (S.U.)	GWC-6A	5.917	4.063	1/23/2024	5.32	No	194	2.224	0.1166	0	None	sqrt(x)	0.000752	Param Inter 1 of 2
Sulfate (mg/L)	GWC-1A	110	n/a	1/23/2024	1ND	No	114	n/a	n/a	27.19	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2	110	n/a	1/23/2024	3.8	No	114	n/a	n/a	27.19	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4A	110	n/a	1/23/2024	0.41J	No	114	n/a	n/a	27.19	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5A	110	n/a	1/23/2024	1ND	No	114	n/a	n/a	27.19	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6A	110	n/a	1/23/2024	3.3	No	114	n/a	n/a	27.19	n/a	n/a	0.0001526	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GWC-1A	168.1	n/a	1/23/2024	63	No	113	7.954	2.783	1.77	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-2	168.1	n/a	1/23/2024	40	No	113	7.954	2.783	1.77	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-4A	168.1	n/a	1/23/2024	25	No	113	7.954	2.783	1.77	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-5A	168.1	n/a	1/23/2024	35	No	113	7.954	2.783	1.77	None	sqrt(x)	0.001504	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GWC-6A	168.1	n/a	1/23/2024	75	No	113	7.954	2.783	1.77	None	sqrt(x)	0.001504	Param Inter 1 of 2

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Interwell Non-parametric



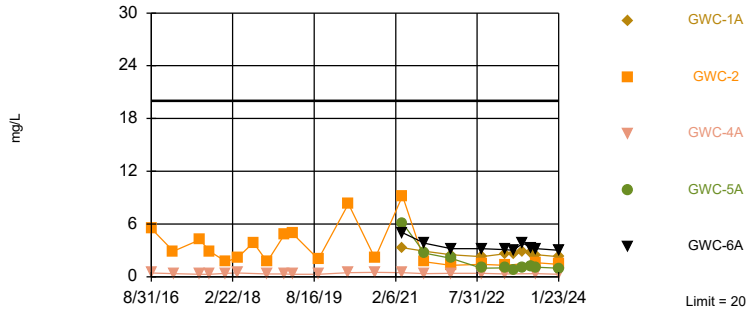
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 114 background values. 35.96% NDs. Annual per-constituent alpha = 0.001525. Individual comparison alpha = 0.0001526 (1 of 2). Comparing 5 points to limit.

Constituent: Boron Analysis Run 2/9/2024 1:56 PM View: Appendix III
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Within Limit

Prediction Limit

Interwell Non-parametric



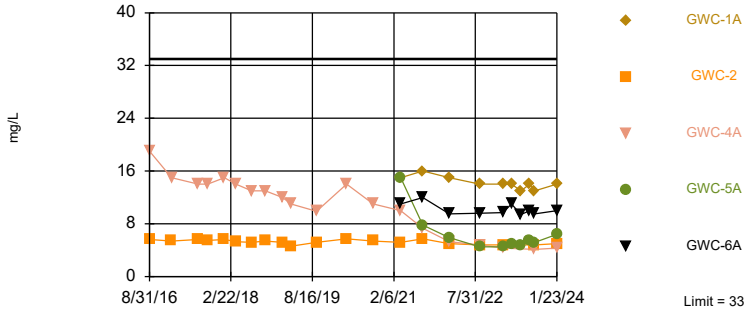
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 113 background values. Annual per-constituent alpha = 0.001554. Individual comparison alpha = 0.0001555 (1 of 2). Comparing 5 points to limit.

Constituent: Calcium Analysis Run 2/9/2024 1:56 PM View: Appendix III
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Within Limit

Prediction Limit

Interwell Non-parametric



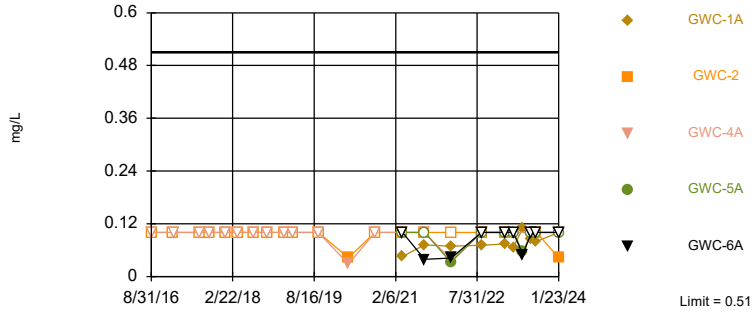
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 114 background values. Annual per-constituent alpha = 0.001525. Individual comparison alpha = 0.0001526 (1 of 2). Comparing 5 points to limit.

Constituent: Chloride Analysis Run 2/9/2024 1:56 PM View: Appendix III
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.
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 114 background values. 54.39% NDs. Annual per-constituent alpha = 0.001525. Individual comparison alpha = 0.0001526 (1 of 2). Comparing 5 points to limit.

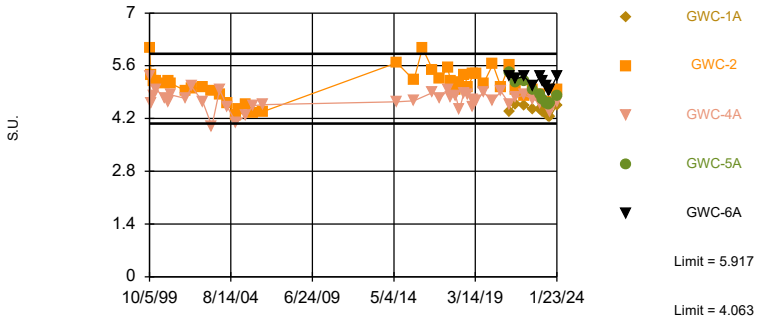
Constituent: Fluoride Analysis Run 2/9/2024 1:56 PM View: Appendix III
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG

Within Limits

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=2.224, Std. Dev.=0.1166, n=194. Normality test: Chi Squared @alpha = 0.01, calculated = 11.57, 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 2/9/2024 1:57 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

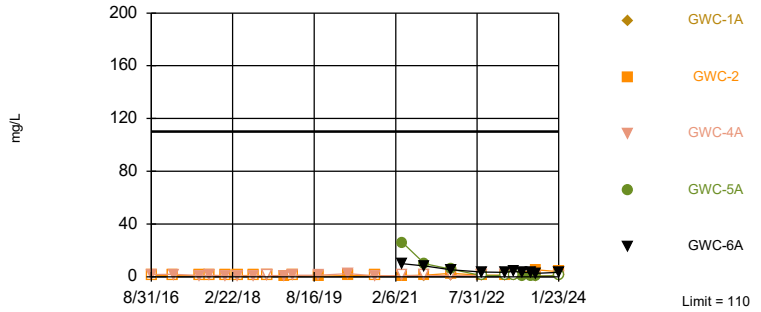
Sanitas™ v.10.0.15 . UG

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 114 background values. 27.19% NDs. Annual per-constituent alpha = 0.001525. Individual comparison alpha = 0.0001526 (1 of 2). Comparing 5 points to limit.

Constituent: Sulfate Analysis Run 2/9/2024 1:57 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

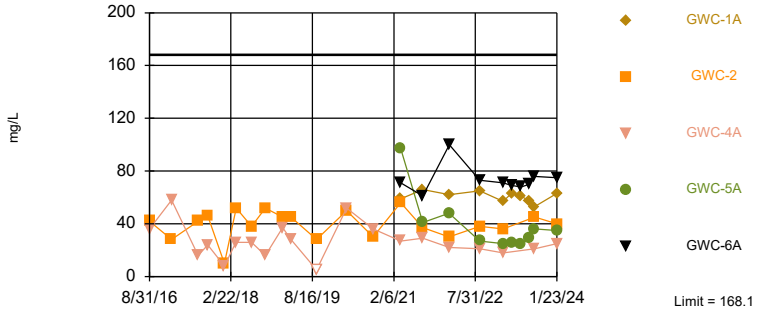
Sanitas™ v.10.0.15 . UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=7.954, Std. Dev.=2.783, n=113, 1.77% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 11.16, critical = 14.07. Kappa = 1.801 (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 2/9/2024 1:57 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWC-2	GWA-4 (bg)	GWA-5 (bg)	GWA-3A (bg)	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
8/31/2016	0.023 (J)	<0.08	0.073	<0.08	<0.08				
9/1/2016						0.029 (J)			
1/19/2017		0.027 (J)	0.036 (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	0.026 (J)		0.07						
7/20/2017					<0.08				
9/20/2017				<0.08		<0.08			
9/21/2017	0.025 (J)	<0.08	0.07		<0.08				
1/8/2018						<0.08			
1/9/2018	0.023 (J)	<0.08	0.042 (J)	<0.08	<0.08				
3/27/2018		<0.08	0.037 (J)	<0.08		<0.08			
3/28/2018					<0.08				
3/29/2018	0.035 (J)								
7/10/2018	0.044 (J)	<0.08	0.042 (J)	<0.08	<0.08	<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	0.03 (J)	<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	0.062	<0.08		0.024 (J)	<0.08		1.4	0.83	
9/11/2019						<0.08			
9/12/2019	0.045 (J)	<0.08	0.048 (J)	<0.08	<0.08		1.6	0.65	
3/10/2020		<0.08	0.066 (J)	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	0.083		0.097		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		<0.08	0.048 (J)		<0.08				
8/17/2021		0.045 (J)	0.067 (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	0.094	<0.08	<0.08	0.077 (J)		<0.08			
2/9/2022					<0.08				<0.08
8/30/2022	0.085	<0.08	<0.08	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	0.091	0.023 (J)		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)						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWC-2	GWA-4 (bg)	GWA-5 (bg)	GWA-3A (bg)	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
1/23/2024	0.092	0.033 (J)	0.051 (J)	0.073 (J)	<0.08		1.2	0.5	0.047 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh 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			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-5A	GWC-1A
1/23/2024	0.029 (J)	<0.08	0.06 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWC-2	GWA-3A (bg)	GWA-5 (bg)	GWA-4 (bg)	GWC-4A	GWA-1A (bg)	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
8/31/2016	5.5	1.5	3.7	0.88	0.42				
9/1/2016						26 (o)			
1/19/2017		1.8	2	1.1					
1/24/2017	2.9								
1/25/2017					0.37				
2/28/2017						2.7			
7/17/2017						1.7			
7/18/2017		1.7		0.86					
7/19/2017	4.2		2.6						
7/20/2017					0.29				
9/20/2017		1.7				1.5			
9/21/2017	2.9		2.7	0.9	0.3				
1/8/2018						1.7			
1/9/2018	1.7	1.9	4.1	1	0.38				
3/27/2018		1.9	4.8	0.89		1.7			
3/28/2018					0.44				
3/29/2018	2.2								
7/10/2018	3.9	1.9	3.7	0.99	2 (o)	1.7			
10/8/2018			3.2	1.1		1.6	17	17	
10/9/2018	1.7	2.2			0.34				
1/30/2019		2.4	1.7	1	0.34	1.9	16	15	
1/31/2019	4.8								
3/27/2019			3.1			1.6			
3/28/2019	4.9	2.4		0.98	0.3		16	18	
9/11/2019						1.6			
9/12/2019	2	2.3	1.9	0.84	0.3 (J)		15	19	
3/10/2020		2.8	2.9	1.1		2	14		
3/11/2020								20	
3/31/2020	8.3				0.48 (J)				
4/2/2020		3							
9/21/2020		3.1		1.4		1.8		13	
9/22/2020	2.1		2.9		0.51		16		
3/23/2021	9.2	3.6				1.8	15	19	4
3/24/2021			3.1	1.3	0.46 (J)				
8/17/2021		3.5	2.9	1.4		1.8	15	17	3.9
8/18/2021	1.7				0.37 (J)				
2/7/2022							12	11	
2/8/2022	1.3	3.3	2.8	1.3		1.7			2.7
2/9/2022					0.39 (J)				
8/30/2022	1.4	3.9	3.4	1.2	0.39 (J)	1.8	15	14	5.2
8/31/2022									
1/31/2023							16	15	6.8
2/1/2023	1.3	4.6		1.4	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
8/29/2023	1.6	4.7			0.37 (J)		13		
9/6/2023			3.7						

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWC-2	GWA-3A (bg)	GWA-5 (bg)	GWA-4 (bg)	GWC-4A	GWA-1A (bg)	GWA-2B (bg)	GWA-7A (bg)	GWA-1B (bg)
1/23/2024	1.4	4.6	3.2	1.2	0.3 (J)		12	12	8.3

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWC-6A	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	5		
3/24/2021		3.3	6.1
8/17/2021			
8/18/2021	3.8	2.9	2.7
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	2.6	1
2/1/2023			
2/2/2023			
3/28/2023			
3/29/2023	3	2.6	0.83
5/30/2023			
5/31/2023	3.8	2.8	1.1
7/26/2023	3.3	2.7	1.2
8/28/2023			
8/29/2023	3.2	2.5	1.1
9/6/2023			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWC-6A	GWC-1A	GWC-5A
1/23/2024	3	2.3	0.96

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWC-2	GWA-4 (bg)	GWA-5 (bg)	GWA-3A (bg)	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
8/31/2016	5.6	3.7	7.1	6.8	19				
9/1/2016						8			
1/19/2017		4.6	3.3	6.9					
1/24/2017	5.4								
1/25/2017					15				
2/28/2017						8.5			
7/17/2017						7.8			
7/18/2017		4.2		7.4					
7/19/2017	5.6		5.8						
7/20/2017					14				
9/20/2017				7.6		8			
9/21/2017	5.5	4.4	6.2		14				
1/8/2018						7.9			
1/9/2018	5.6	4.4	9.9	8.6	15				
3/27/2018		4.9	13	9.4		8			
3/28/2018					14				
3/29/2018	5.3								
7/10/2018	5.2	5.5	17	11	13	7.8			
10/8/2018		6.6	16			8.5	6.8	7.3	
10/9/2018	5.4			14	13				
1/30/2019		6.9	6.5	15	12	8.2	7.1	7.3	
1/31/2019	5.2								
3/27/2019			9.1			8.1			
3/28/2019	4.6	5.7		15	11		6.1	6.1	
9/11/2019						7.1			
9/12/2019	5.2	6.1	9.1	16	9.9		6.8	7.6	
3/10/2020		5	3.7	19		8.1		8	
3/11/2020							6.9		
3/31/2020	5.7				14				
4/2/2020				20					
9/21/2020		5.4		19		8.1	6.5		
9/22/2020	5.4		6.3		11			8	
3/23/2021	5.2			22		8.6	7.6	7.8	11
3/24/2021		6.2	7.4		10				
8/17/2021		6.1	11	23		9.1	8.3	7.7	
8/18/2021	5.7				7.3				12
2/7/2022							7.6	6.7	
2/8/2022	5	6.4	12	23		8.6			
2/9/2022					5.3				9.5
8/30/2022	4.8	4.7	15	26	4.8	8.5	7.5	5.9	
8/31/2022									9.6
1/31/2023							7.9	6.7	9.7
2/1/2023	4.8	4.5		30	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	4.8			29	4.1			7.9	9.5
9/6/2023			14						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWC-2	GWA-4 (bg)	GWA-5 (bg)	GWA-3A (bg)	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
1/23/2024	5	5.1	16	33	4.3		7.2	9.6	10

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh 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 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-5A	GWC-1A
1/23/2024	6.3	6.4	14

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWC-2	GWA-4 (bg)	GWA-5 (bg)	GWA-3A (bg)	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
8/31/2016	<0.1	<0.1	0.13 (J)	<0.1	<0.1				
9/1/2016						<0.1			
1/19/2017		0.089 (J)	<0.1	<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	<0.1	<0.1	0.13 (J)		<0.1				
1/8/2018						<0.1			
1/9/2018	<0.1	<0.1	0.13 (J)	<0.1	<0.1				
3/27/2018		<0.1	0.21	<0.1		<0.1			
3/28/2018					<0.1				
3/29/2018	<0.1								
7/10/2018	<0.1	<0.1	0.17 (J)	<0.1	<0.1	<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		0.029 (J)	0.089 (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	<0.1	0.035 (J)	0.052 (J)	<0.1	<0.1		<0.1	0.036 (J)	
3/10/2020		0.066 (J)	0.051 (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	<0.1		0.049 (J)		<0.1			0.039 (J)	
3/23/2021	<0.1			<0.1		<0.1	<0.1	<0.1	<0.1
3/24/2021		0.12	0.08 (J)		<0.1				
8/17/2021		0.061 (J)	0.097 (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	<0.1	0.061 (J)	0.12	0.033 (J)		<0.1			
2/9/2022					0.038 (J)				0.042 (J)
8/30/2022	<0.1	0.047 (J)	0.11	<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	<0.1	0.043 (J)		<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						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWC-2	GWA-4 (bg)	GWA-5 (bg)	GWA-3A (bg)	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
1/23/2024	0.043 (J)	0.077 (J)	0.15	0.049 (J)	<0.1		<0.1	<0.1	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh 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			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-5A	GWC-1A
1/23/2024	0.24	<0.1	0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH (S.U.) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh 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)	GWC-6A
10/5/1999	6.63	6.42	6.51	6.3	5.33	6.08			
11/12/1999	5.51	5.03	5.46	4.72	4.6	5.35			
12/29/1999	5.23	4.92	5.13	4.8	4.8	5.19			
2/17/2000	5.29	5.13	5.22	4.78	4.98	5.18			
9/13/2000	5.41	4.85	4.86	4.58	4.75	5.13			
11/10/2000	5.47	5.05	5.29	4.5	4.65	5.2			
1/4/2001	5.44	5.08	5.53	4.61	4.83	5.14			
12/11/2001	4.86	4.81	5.37	4.87	4.73	4.93			
4/4/2002	5.1	4.92	5.32	4.96	5.05	5			
12/6/2002	4.917 (D)	5.07 (D)	5.3 (D)	4.4 (D)	4.65 (D)	5.02			
6/28/2003	4.91	4.69	4.73	3.77	4	4.92			
12/13/2003	4.87	4.81	4.53	4.25	4.97	4.82			
5/28/2004	4.98	3.93	4.22	3.9	4.51	4.6			
12/10/2004	4.35	4.25	4.26	3.71	4.09	4.29			
2/5/2005						4.43			
6/24/2005	4.82	4.5	4.47	3.94	4.27	4.56			
12/13/2005	4.66	4.52	4.47	3.94	4.54	4.34			
7/12/2006	5.49	3.59	3.68	5.56	4.57	4.38			
7/11/2014	5.55				4.64				
7/12/2014		5.44	5.33	3.88		5.68			
7/15/2015	5.13	4.98	4.94	4.19	4.67	5.22			
1/16/2016	5.06	4.87	4.85	4.35					
1/17/2016						6.07			
8/31/2016		4.92	4.79	4.53	4.89	5.49			
1/19/2017		4.86	4.72	4.79					
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			4.7	4.57	4.78	5.19			
1/8/2018	5.26	4.92							
1/9/2018		4.83	4.91	4.4	4.79	4.97			
3/27/2018	5.27	4.91	4.92	4.11					
3/28/2018					4.44				
3/29/2018						5.15			
7/10/2018	5.17	4.87	4.94	4.62	4.88	5.37			
10/8/2018	5.18	4.84	4.76	4.51			5.29	5.79	
10/9/2018					4.85	5.04			
1/29/2019					4.7				
1/30/2019	5.17	4.88	4.94	4.72	4.52		5.08	5.15	
1/31/2019						5.38			
3/27/2019	5.09			4.56					
3/28/2019		4.8	4.99		4.68	5.38	4.93	5.62	
9/11/2019	5.1								
9/12/2019		4.99	4.92	4.54	4.89	5.14	5.57	5.1	
3/10/2020	5.48	4.79	4.59	4.81			5.56		
3/11/2020								5.05	
3/31/2020					4.66	5.64			

Prediction Limit

Constituent: pH (S.U.) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh 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)	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			4.42	4.37	4.59				
8/17/2021	5.24	4.76	4.78	4.62			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	4.93	4.67		4.79			
2/9/2022					4.82				5.31
8/30/2022	5.01	4.71	4.72	4.51	4.71	4.96	4.9	5	
8/31/2022									5.07
1/31/2023							5.07	5	5.32
2/1/2023		4.52	4.77		4.6	4.83			
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	4.98	4.66	4.64	4.96	5.14	5.01	5.32

Prediction Limit

Constituent: pH (S.U.) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWA-1B (bg)	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			
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 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-5A	GWC-1A
4/2/2020			
9/21/2020			
9/22/2020			
3/23/2021	5.63		
3/24/2021		5.42	4.38
8/17/2021	5.83		
8/18/2021		5.17	4.59
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	4.85	4.43
2/1/2023			
2/2/2023			
3/28/2023	5.73		
3/29/2023		4.69	4.38
5/30/2023	5.89		
5/31/2023		4.62	4.31
7/26/2023	5.86	4.57	4.26
8/28/2023	5.72		
8/29/2023		4.6	4.25
9/6/2023			
1/23/2024	6.52	4.8	4.55

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWC-2	GWA-4 (bg)	GWA-5 (bg)	GWA-3A (bg)	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
8/31/2016	<1	7	21	<1	1.7				
9/1/2016						<1			
1/19/2017		6.3	11	<1					
1/24/2017	<1								
1/25/2017					1.8				
2/28/2017						2.7			
7/17/2017						<1			
7/18/2017		4.7		<1					
7/19/2017	<1		12						
7/20/2017					0.83 (J)				
9/20/2017				<1		<1			
9/21/2017	<1	4.5	15		1.1				
1/8/2018						<1			
1/9/2018	<1	3	25	<1	0.79 (J)				
3/27/2018		3.8	31	<1		<1			
3/28/2018					0.79 (J)				
3/29/2018	<1								
7/10/2018	<1	3.4	19	<1	0.76 (J)	<1			
10/8/2018		3.4	17			<1	75	73	
10/9/2018	<1			<1	<1				
1/30/2019		3.5	15	0.41 (J)	0.9 (J)	1.2	85	74	
1/31/2019	0.57 (J)								
3/27/2019			20			<1			
3/28/2019	<1	3		0.44 (J)	1.1		85	71	
9/11/2019						<1			
9/12/2019	0.43 (J)	3.7	10	0.69 (J)	1.1		81	59	
3/10/2020		7.2	15	3		1.5		57	
3/11/2020							110		
3/31/2020	1				2.5				
4/2/2020				<1					
9/21/2020		5		<1		<1	49		
9/22/2020	<1		12		0.76 (J)			52	
3/23/2021	0.8 (J)			<1		<1	88	49	10
3/24/2021		7	16		<1				
8/17/2021		5	11	<1		<1	84	54	
8/18/2021	1.2				<1				8.3
2/7/2022							54	42	
2/8/2022	2.7	5.9	13	<1		<1			
2/9/2022					<1				5.4
8/30/2022	1.1	3.5	13	<1	<1	<1	73	74	
8/31/2022									3.5
1/31/2023							74	71	3.3
2/1/2023	1.3	3.1		<1	<1				
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			<1	0.57 (J)			42	2.7
9/6/2023			14						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWC-2	GWA-4 (bg)	GWA-5 (bg)	GWA-3A (bg)	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWC-6A
1/23/2024	3.8	3.3	14	<1	0.41 (J)		66	54	3.3

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh 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			<1
8/30/2022	1.6		<1
8/31/2022		<1	
1/31/2023	1	<1	<1
2/1/2023			
2/2/2023			
3/28/2023	2		
3/29/2023		<1	<1
5/30/2023	2		
5/31/2023		0.71 (J)	0.43 (J)
7/26/2023	1.5	0.43 (J)	<1
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 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-5A	GWC-1A
1/23/2024	1.4	<1	<1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)	GWC-2	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
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	4 (J)	10	8				
3/27/2018	48	<10	30			40			
3/28/2018					26				
3/29/2018				52					
7/10/2018	76	14	30	38	26	90			
10/8/2018	8	36				70	180	170	
10/9/2018			56	52	16				
1/30/2019	67	40	41		37	82	180	140	
1/31/2019				45					
3/27/2019	70					66			
3/28/2019		24	36	45	28		170	150	
9/11/2019						53			
9/12/2019	20	10	<10	28	<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			76	56		47	180	130	63
3/24/2021	60	36			27				
8/17/2021	50	33	83			36	160	130	43
8/18/2021				37	29				
2/7/2022							150	120	
2/8/2022	57	29	62	30		45			39
2/9/2022					22				
8/30/2022	64	40	87	38	21	55	160	150	79
8/31/2022									
1/31/2023							150	140	76
2/1/2023		34	85	36	18				
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			85	45	21			110	
9/6/2023	66								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III
Plant McIntosh Data: McIntosh LF 3 CCR

	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)	GWC-2	GWC-4A	GWA-1A (bg)	GWA-7A (bg)	GWA-2B (bg)	GWA-1B (bg)
1/23/2024	68	32	99	40	25		140	120	100

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWC-6A	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	71		
3/24/2021		97	59
8/17/2021			
8/18/2021	61	41	66
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	25	57
2/1/2023			
2/2/2023			
3/28/2023			
3/29/2023	69	26	63
5/30/2023			
5/31/2023	68	25	61
7/26/2023	70	29	57
8/28/2023			
8/29/2023	76	36	53
9/6/2023			

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 2/9/2024 1:58 PM View: Appendix III

Plant McIntosh Data: McIntosh LF 3 CCR

	GWC-6A	GWC-5A	GWC-1A
1/23/2024	75	35	63

FIGURE E.

Appendix I - Interwell Prediction Limits - All Results (No Significant)

Plant McIntosh Data: McIntosh LF 3 CCR Printed 2/9/2024, 5:21 PM

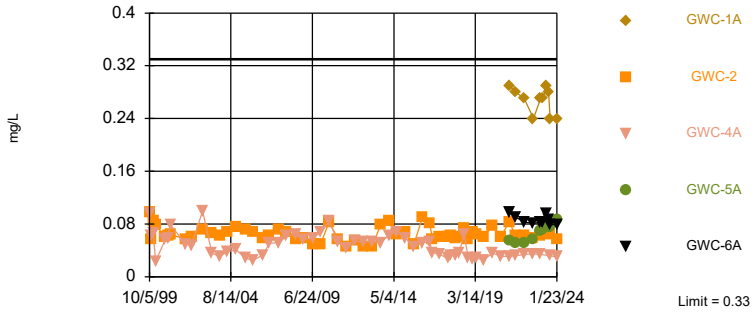
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	GWC-1A	0.33	n/a	1/23/2024	0.24	No	260	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-2	0.33	n/a	1/23/2024	0.057	No	260	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Barium (mg/L)	GWC-4A	0.33	n/a	1/23/2024	0.03	No	260	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	1/23/2024	0.087	No	260	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	1/23/2024	0.079	No	260	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	1/23/2024	0.00041J	No	261	n/a	n/a	67.05	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-2	0.0036	n/a	1/23/2024	0.00027J	No	261	n/a	n/a	67.05	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-4A	0.0036	n/a	1/23/2024	0.0025ND	No	261	n/a	n/a	67.05	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-5A	0.0036	n/a	1/23/2024	0.00033J	No	261	n/a	n/a	67.05	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Beryllium (mg/L)	GWC-6A	0.0036	n/a	1/23/2024	0.00024J	No	261	n/a	n/a	67.05	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-1A	0.032	n/a	1/23/2024	0.002ND	No	259	n/a	n/a	51.35	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-2	0.032	n/a	1/23/2024	0.0017J	No	259	n/a	n/a	51.35	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-4A	0.032	n/a	1/23/2024	0.002ND	No	259	n/a	n/a	51.35	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-5A	0.032	n/a	1/23/2024	0.002ND	No	259	n/a	n/a	51.35	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Chromium (mg/L)	GWC-6A	0.032	n/a	1/23/2024	0.002ND	No	259	n/a	n/a	51.35	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	GWC-1A	0.0072	n/a	1/23/2024	0.0042	No	259	n/a	n/a	48.26	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-2	0.0072	n/a	1/23/2024	0.0014J	No	259	n/a	n/a	48.26	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-4A	0.0072	n/a	1/23/2024	0.0004J	No	259	n/a	n/a	48.26	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-5A	0.0072	n/a	1/23/2024	0.0027	No	259	n/a	n/a	48.26	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Cobalt (mg/L)	GWC-6A	0.0072	n/a	1/23/2024	0.00095J	No	259	n/a	n/a	48.26	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Copper (mg/L)	GWC-1A	0.008	n/a	1/23/2024	0.002ND	No	240	n/a	n/a	79.58	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Copper (mg/L)	GWC-2	0.008	n/a	1/23/2024	0.002ND	No	240	n/a	n/a	79.58	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-1A	0.016	n/a	1/23/2024	0.001ND	No	260	n/a	n/a	80.77	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-2	0.016	n/a	1/23/2024	0.001ND	No	260	n/a	n/a	80.77	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-5A	0.016	n/a	1/23/2024	0.0003J	No	260	n/a	n/a	80.77	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Lead (mg/L)	GWC-6A	0.016	n/a	1/23/2024	0.00023J	No	260	n/a	n/a	80.77	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-1A	0.03	n/a	1/23/2024	0.002ND	No	241	n/a	n/a	76.35	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-2	0.03	n/a	1/23/2024	0.002ND	No	241	n/a	n/a	76.35	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Vanadium (mg/L)	GWC-4A	0.03	n/a	1/23/2024	0.002ND	No	241	n/a	n/a	76.35	n/a	n/a	0.0000492	NP Inter (NDs) 1 of 2
Zinc (mg/L)	GWC-1A	0.074	n/a	1/23/2024	0.018	No	243	n/a	n/a	24.28	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-2	0.074	n/a	1/23/2024	0.0069	No	243	n/a	n/a	24.28	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-4A	0.074	n/a	1/23/2024	0.0041J	No	243	n/a	n/a	24.28	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-5A	0.074	n/a	1/23/2024	0.016	No	243	n/a	n/a	24.28	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Zinc (mg/L)	GWC-6A	0.074	n/a	1/23/2024	0.0042J	No	243	n/a	n/a	24.28	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2

Sanitas™ v.10.0.15 . UG

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 260 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 2/9/2024 5:16 PM View: Appendix I

Plant McIntosh Data: McIntosh LF 3 CCR

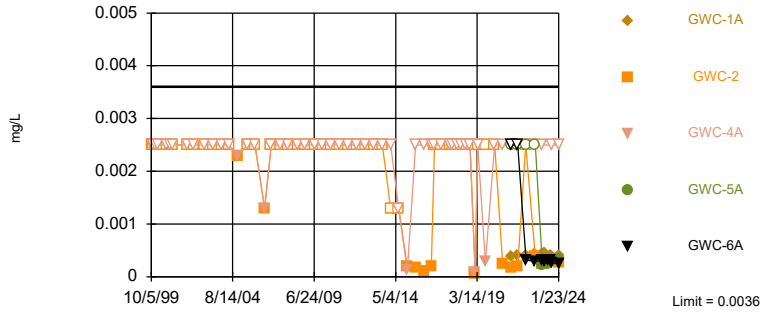
Sanitas™ v.10.0.15 . UG

Hollow symbols indicate censored values.

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 261 background values. 67.05% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Beryllium Analysis Run 2/9/2024 5:16 PM View: Appendix I

Plant McIntosh Data: McIntosh LF 3 CCR

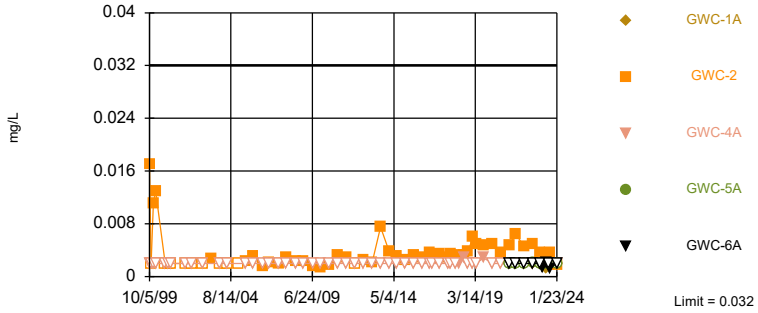
Sanitas™ v.10.0.15 . UG

Hollow symbols indicate censored values.

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 259 background values. 51.35% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Chromium Analysis Run 2/9/2024 5:16 PM View: Appendix I

Plant McIntosh Data: McIntosh LF 3 CCR

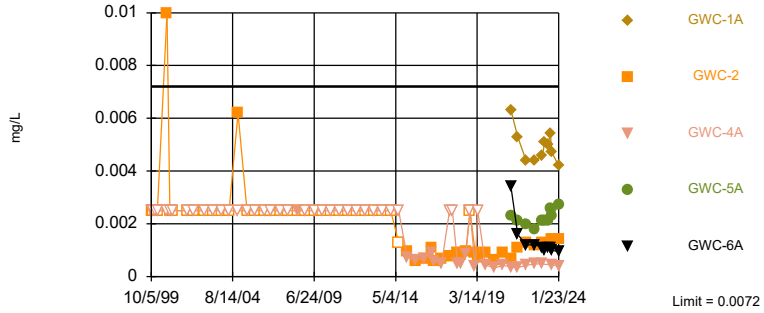
Sanitas™ v.10.0.15 . UG

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 259 background values. 48.26% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

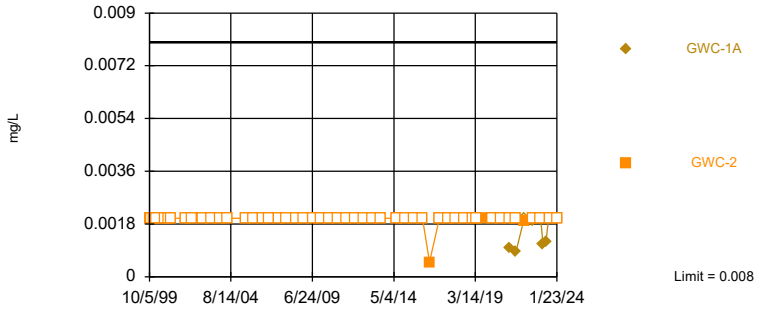
Constituent: Cobalt Analysis Run 2/9/2024 5:16 PM View: Appendix I

Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Interwell Non-parametric



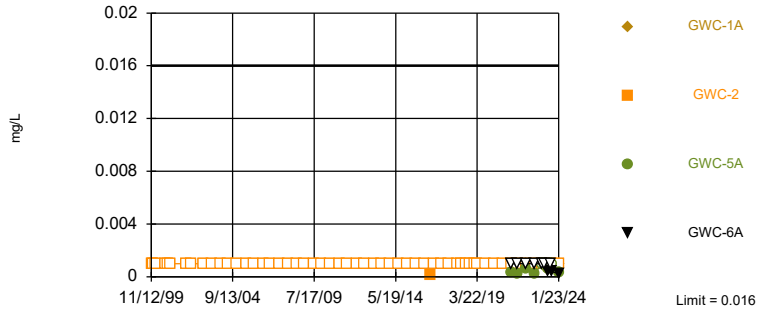
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 240 background values. 79.58% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Copper Analysis Run 2/9/2024 5:16 PM View: Appendix I
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Interwell Non-parametric



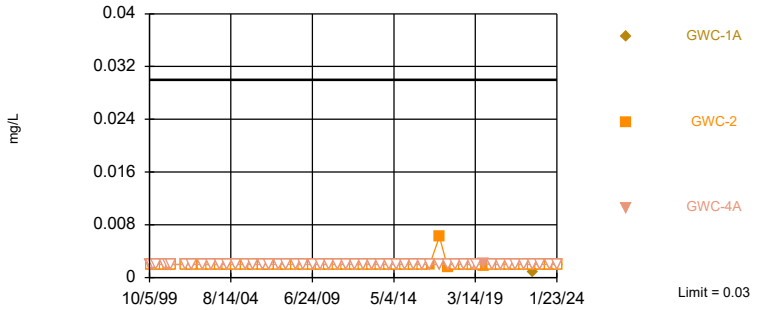
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 260 background values. 80.77% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 4 points to limit. Assumes 1 future value.

Constituent: Lead Analysis Run 2/9/2024 5:16 PM View: Appendix I
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Interwell Non-parametric



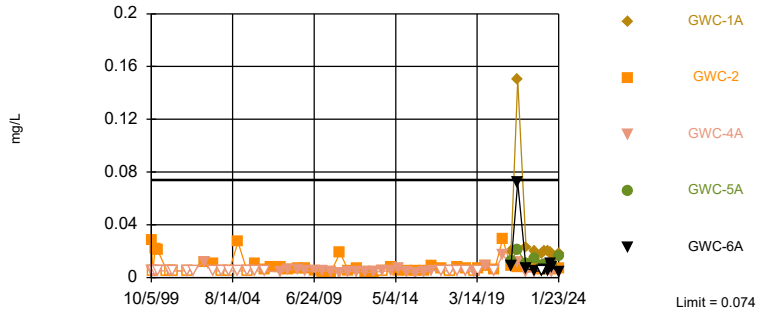
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 241 background values. 76.35% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 3 points to limit. Assumes 2 future values.

Constituent: Vanadium Analysis Run 2/9/2024 5:16 PM View: Appendix I
Plant McIntosh Data: McIntosh LF 3 CCR

Sanitas™ v.10.0.15 . UG
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 243 background values. 24.28% NDs. Annual per-constituent alpha = 0.0004919. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 5 points to limit.

Constituent: Zinc Analysis Run 2/9/2024 5:16 PM View: Appendix I
Plant McIntosh Data: McIntosh LF 3 CCR

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh 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 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh 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

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh Data: McIntosh LF 3 CCR

	GWA-1B (bg)	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: Barium (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh Data: McIntosh LF 3 CCR

	GWA-1B (bg)	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	0.021		
3/24/2021		0.055	0.29
8/17/2021	0.022		
8/18/2021		0.052	0.28
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	0.07	0.27
2/1/2023			
2/2/2023			
3/28/2023	0.018		
3/29/2023		0.071	0.27
5/30/2023	0.019		
5/31/2023		0.076	0.29
7/26/2023	0.026	0.082	0.28
8/28/2023	0.023		
8/29/2023		0.076	0.24
9/6/2023			
1/23/2024	0.021	0.087	0.24

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh 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	<0.0025	<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			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh 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					<0.0025				
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				0.0014 (J)	<0.0025	
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)	0.0019 (J)	0.00047 (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)	0.0017 (J)	0.00034 (J)	
9/11/2019	0.00019 (J)								
9/12/2019		<0.0025	0.00036 (J)	0.00028 (J)	<0.0025	0.00084 (J)	0.00088 (J)	0.00097 (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)	0.00071 (J)	0.00066 (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)	0.00068 (J)	0.00047 (J)	
8/18/2021				<0.0025	0.0002 (J)				<0.0025
2/7/2022							0.00071 (J)	<0.0025	
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)	0.0019 (J)	0.0007 (J)	
8/31/2022									0.00029 (J)
1/31/2023							0.0018 (J)	0.00056 (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)	0.0014 (J)	0.00045 (J)	0.00024 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh Data: McIntosh LF 3 CCR

	GWA-1B (bg)	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: Beryllium (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh Data: McIntosh LF 3 CCR

	GWA-1B (bg)	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	<0.0025		
3/24/2021		<0.0025	0.00039 (J)
8/17/2021	<0.0025		
8/18/2021		<0.0025	0.00041 (J)
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	0.00023 (J)	0.00043 (J)
2/1/2023			
2/2/2023			
3/28/2023	<0.0025		
3/29/2023		0.00024 (J)	0.00046 (J)
5/30/2023	<0.0025		
5/31/2023		0.00024 (J)	0.00039 (J)
7/26/2023	<0.0025	0.00032 (J)	0.00041 (J)
8/28/2023	<0.0025		
8/29/2023		0.00031 (J)	0.00038 (J)
9/6/2023			
1/23/2024	<0.0025	0.00033 (J)	0.00041 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh 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	0.023	<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)								

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh 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
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	0.003	<0.002	
1/31/2019				0.0061					
3/27/2019	0.0044		<0.002						
3/28/2019		<0.002		0.0049	<0.002	0.0037	0.0017 (J)	<0.002	
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	
8/18/2021				0.0064	<0.002				<0.002
2/7/2022							<0.002	<0.002	
2/8/2022	0.0051	<0.002	0.003	0.0046		<0.002			
2/9/2022					<0.002				<0.002
8/30/2022	0.0047	<0.002	<0.002	0.005	<0.002	0.0084	0.0028	<0.002	
8/31/2022									<0.002
1/31/2023							0.0022	<0.002	<0.002
2/1/2023		0.0016 (J)		0.0037	<0.002	0.0016 (J)			
2/2/2023			0.0023						
3/28/2023									
3/29/2023									0.0014 (J)
5/30/2023									
5/31/2023									0.0021
7/26/2023									<0.002
8/28/2023		<0.002						0.0016 (J)	
8/29/2023				0.0037	<0.002	<0.002	<0.002		0.0013 (J)
9/6/2023			0.0016 (J)						
1/23/2024		<0.002	<0.002	0.0017 (J)	<0.002	0.0016 (J)	0.0015 (J)	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh Data: McIntosh LF 3 CCR

	GWA-1B (bg)	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			
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 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh Data: McIntosh LF 3 CCR

	GWA-1B (bg)	GWC-5A	GWC-1A
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	<0.002		
8/18/2021		<0.002	<0.002
2/7/2022			
2/8/2022	<0.002	<0.002	
2/9/2022			<0.002
8/30/2022	<0.002		<0.002
8/31/2022		0.0021	
1/31/2023	<0.002	<0.002	<0.002
2/1/2023			
2/2/2023			
3/28/2023	<0.002		
3/29/2023		<0.002	0.0016 (J)
5/30/2023	<0.002		
5/31/2023		<0.002	0.0012 (J)
7/26/2023	<0.002	<0.002	<0.002
8/28/2023	<0.002		
8/29/2023		<0.002	<0.002
9/6/2023			
1/23/2024	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh 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)	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	0.01	<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	<0.0025	<0.0025	<0.0025	<0.0025			
6/28/2003	<0.0025	<0.0025	0.018 (o)	<0.0025	<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	0.007	<0.0025	0.0062	<0.0025			
6/24/2005	<0.0025	<0.0025	0.0072	<0.0025	<0.0025	<0.0025			
12/13/2005	<0.0025	<0.0025	0.0062	<0.0025	<0.0025	<0.0025			
7/12/2006	0.0032	<0.0025	0.0048	<0.0025	<0.0025	<0.0025			
12/1/2006	0.012 (o)	<0.0025	0.0032	<0.0025	<0.0025	<0.0025			
6/21/2007	<0.0025	<0.0025	0.0037	<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	0.0031		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	0.0026	<0.0025	<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	0.002	<0.0025	<0.0025	<0.0025			
7/13/2012	0.0015								
1/21/2013	0.0035	<0.0025	0.0014	<0.0025	<0.0025	<0.0025			
7/20/2013	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025			
1/17/2014	0.0027	<0.0013 (J)	0.0019	<0.0025	<0.0025	<0.0013 (J)			
7/11/2014				<0.0025					
7/12/2014	<0.0013 (J)	<0.0013 (J)	0.0026		<0.0013 (J)	<0.0013 (J)			
1/15/2015		0.00084 (J)			0.00096 (J)	0.00086 (J)			
1/16/2015	<0.0025		0.0021	0.00071 (J)					
7/15/2015	<0.0025	0.00083 (J)	0.0023	0.00064 (J)	0.0006 (J)	0.00087 (J)			
1/16/2016	0.00059 (J)	0.00092 (J)	0.002			0.0011 (J)			
1/17/2016				0.00066 (J)	0.00069 (J)				
6/22/2016	0.00085 (JD)	0.0005 (J)	0.0007 (J)	0.0009 (J)	0.0011 (J)	0.0009 (J)			
8/31/2016		0.00055 (J)	0.001 (J)	0.0006 (J)	0.0006 (J)	0.00095 (J)			
9/1/2016	0.023 (o)								
1/19/2017		0.00041 (J)	0.00046 (J)			0.00087 (J)			

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh 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)	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		0.0007 (J)				0.001 (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		0.0012 (J)	0.0014 (J)	0.00048 (J)	0.00092 (J)	0.0011 (J)			
3/27/2018	<0.0025	0.00081 (J)	0.0019 (J)			0.0011 (J)			
3/28/2018				0.00048 (J)					
3/29/2018					0.0008 (J)				
7/10/2018	<0.0025	0.00086 (J)	0.0015 (J)	0.00084 (J)	0.00097 (J)	0.0012 (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)	0.00092 (J)	0.00076 (J)	0.00038 (J)		0.0014 (J)	0.0044	0.0047	
1/31/2019					0.00092 (J)				
3/27/2019	<0.0025		0.0012 (J)						
3/28/2019		0.00089 (J)		<0.0025	0.00072 (J)	0.0014 (J)	0.0046	0.0045	
9/11/2019	0.00032 (J)								
9/12/2019		0.00091	0.00074	0.00044 (J)	0.0009	0.0015	0.0023	0.0043	
3/10/2020	0.00028 (J)	0.0009	0.00099			0.0019	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)	0.00059 (J)				0.0016 (J)		0.0025	
9/22/2020			0.00064 (J)	0.00042 (J)	0.00092 (J)		<0.0025		
3/23/2021	0.00028 (J)				0.00069 (J)	0.0017 (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)	0.00096 (J)	0.00085 (J)			0.002 (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)	0.00096 (J)	0.001 (J)		0.0013 (J)	0.0019 (J)			0.00032 (J)
2/9/2022				0.00042 (J)					
8/30/2022	0.00031 (J)	0.00097 (J)	0.0016 (J)	0.00048 (J)	0.0012 (J)	0.0023 (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		0.0012 (J)		0.00047 (J)	0.0013 (J)	0.0027			
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				0.00045 (J)	0.0014 (J)	0.0026	0.0029		
9/6/2023			0.0017 (J)						
1/23/2024		0.001 (J)	0.0018 (J)	0.0004 (J)	0.0014 (J)	0.003	0.0033	0.0018 (J)	<0.0025

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh 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 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh 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

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh 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				
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					
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								

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh 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

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)	GWC-2	GWA-7A (bg)	GWA-2B (bg)	GWC-6A	GWA-1B (bg)
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	0.011	<0.001	<0.001	<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							
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	0.00125 (JD)	0.001 (J)	0.0003 (J)	0.00025 (JD)	0.0001 (J)				
8/31/2016		0.00099 (J)	<0.001	<0.001	<0.001				
9/1/2016	0.082 (o)								
1/19/2017		0.001 (J)	<0.001	<0.001					
1/24/2017					<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWA-5 (bg)	GWA-4 (bg)	GWA-3A (bg)	GWC-2	GWA-7A (bg)	GWA-2B (bg)	GWC-6A	GWA-1B (bg)
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		0.00086 (J)	0.0076		0.0014 (o)				
1/8/2018	<0.001								
1/9/2018		0.00059 (J)	0.0023	<0.001	<0.001				
3/27/2018	<0.001	<0.001	<0.001	<0.001					
3/29/2018					<0.001				
7/10/2018	<0.001	0.00045 (J)	<0.001	<0.001	<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)	0.00064 (J)	0.00013 (J)	0.00034 (J)		<0.001	0.00028 (J)		
1/31/2019					<0.001				
3/27/2019	<0.001	0.0012 (J)							
3/28/2019			<0.001	0.00038 (J)	<0.001	<0.001	<0.001		
9/11/2019	<0.001								
9/12/2019		0.00082 (J)	<0.001	<0.001	<0.001	<0.001	<0.001		
3/10/2020	0.00015 (J)	0.0022	0.00031 (J)	0.00013 (J)			<0.001		
3/11/2020						<0.001			
3/31/2020					<0.001				
4/2/2020				0.00062 (J)					
9/21/2020	<0.001		0.00025 (J)	<0.001		<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		0.00066 (J)	0.00021 (J)						
8/17/2021	<0.001	0.00044 (J)	<0.001	0.00015 (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	0.00058 (J)	<0.001	<0.001	<0.001				<0.001
2/9/2022								<0.001	
8/30/2022	<0.001	0.00064 (J)	<0.001	<0.001	<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			<0.001	0.00027 (J)	<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		0.0011	<0.001	0.00031 (J)	<0.001	0.00056 (J)	<0.001	0.00023 (J)	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh Data: McIntosh LF 3 CCR

	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		
7/12/2014		
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 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh Data: McIntosh LF 3 CCR

	GWC-1A	GWC-5A
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	<0.001	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
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)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-4A	GWA-4 (bg)	GWA-3A (bg)	GWA-5 (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	<0.002	<0.002	0.03	<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	<0.002	0.0038	0.07 (o)	<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			<0.002	0.0026	<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			
7/13/2012	0.011								
1/21/2013	0.028	<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	0.019	<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			
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	<0.002	<0.002	0.0016 (J)	<0.002			
1/16/2016	0.0015 (J)		0.00082 (J)	0.0011 (J)	<0.002				
1/17/2016		<0.002				<0.002			
6/22/2016	0.0081 (JD)	<0.002	<0.002	<0.002	0.0018 (J)	0.0019 (J)			
1/19/2017			0.0025	<0.002	0.0033				
1/24/2017						0.0062			
1/25/2017		<0.002							

ND substitution: RL or RL/2 if <15% NDs. Substitution method for trace values of the form <PQL(J): PQL.

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh Data: McIntosh LF 3 CCR

	GWA-1A (bg)	GWC-4A	GWA-4 (bg)	GWA-3A (bg)	GWA-5 (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	0.0072	<0.002	0.0027	<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	0.0019 (J)		<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	0.0017	0.002	0.004	0.0018	0.002	0.0021	
3/10/2020	<0.002		<0.002	<0.002	0.01			<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	<0.002		0.0018				
8/17/2021	<0.002		<0.002	<0.002	0.0018		<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		<0.002	<0.002	0.0023	<0.002			<0.002
2/9/2022		<0.002							
8/30/2022	0.0019	<0.002	<0.002	<0.002	0.0028	<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	<0.002	<0.002	0.0011 (J)	<0.002	<0.002	<0.002	<0.002

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh 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 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh 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

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh 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				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh 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)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh 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 2/9/2024 5:21 PM View: Appendix I

Plant McIntosh 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

ND substitution: RL or RL/2 if <15% NDs.



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