

**2023 ANNUAL GROUNDWATER MONITORING AND  
CORRECTIVE ACTION REPORT**

**ALABAMA POWER COMPANY  
PLANT GREENE COUNTY  
ASH POND**

**January 31, 2024**

Prepared for

Alabama Power Company  
Birmingham, Alabama

By

Southern Company Services  
Earth Science and Environmental Engineering



## CERTIFICATION STATEMENT

This 2023 *Annual Groundwater Monitoring and Corrective Action Report, Alabama Power Company - Plant Greene County Ash Pond* has been prepared in accordance with the United States Environmental Protection Agency's coal combustion residual rule (40 CFR Part 257, Subpart D), ADEM Admin. Code Ch. 335-13-15, and Part E of ADEM Administrative Order No. 18-097-GW, under the supervision of a licensed professional engineer in the State of Alabama. As such, I certify that the information contained herein is true and accurate to the best of my knowledge.

*Gregory Budd*

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1/31/2024

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Gregory F. Budd, PG  
AL Registered Professional Geologist No. 1455

Date

*Greg Whetstone*

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1/31/2024

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Gregory Whetstone, PE  
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Date

## **EXECUTIVE SUMMARY**

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D), the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, and ADEM Administrative Order (AO) 18-097-GW, this 2023 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document the 2023 semi-annual groundwater monitoring activities at the Alabama Power Company Plant Greene County Ash Pond and to satisfy the requirements of 40 CFR § 257.90(e), ADEM Admin. Code r. 335-13-15-.06(1)(e), and Part E of AO No. 18-097-GW. Semi-annual monitoring and associated reporting for the Plant Greene County Ash Pond (Site) is performed in accordance with the monitoring requirements 40 CFR § 257.90 through § 257.98 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(9).

The CCR unit began the monitoring period in corrective action pursuant to 40 CFR § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9). Statistically significant increases (SSI) of Appendix III constituents over background were identified in the results of the first detection monitoring event and assessment monitoring was initiated in January 2018. Statistically significant levels (SSL) of Appendix IV parameters above groundwater protection standards (GWPS) were identified while in assessment monitoring. Consequently, an assessment of corrective measures (ACM) was initiated on January 13, 2019 and completed on June 12, 2019, according to the requirements of 40 CFR § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and AO No.18-097-GW. The ACM was subsequently submitted to ADEM and posted to the Site's CCR compliance website. A public meeting to discuss the ACM was held on June 29, 2020.

Since the submittal of the ACM, extensive Site investigations have been performed to select effective corrective measures to address SSL above GWPS. A Groundwater Remedy Selection Report was prepared to meet the requirements of 40 CFR § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of AO No.18-097-GW and was submitted to ADEM on September 30, 2021. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on December 29, 2021, for review.

The Corrective Action Groundwater Monitoring Program was prepared to meet 40 CFR § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9) to detect potential downgradient changes in groundwater quality and assess the efficacy of the selected groundwater corrective action remedies. The Monitoring Program has been developed to meet the requirements of 40 CFR § 257.98(a)(1) and ADEM Admin.

Code r. 335-13-15-.06(9)(a)(1) and will supplement the ongoing CCR compliance groundwater monitoring currently being performed at the Site.

Statistical evaluation of assessment monitoring data identified SSL of Appendix IV parameters arsenic, cobalt, and lithium above GWPS during the first and second semi-annual monitoring events of 2023. The following summarizes activities conducted during the semi-annual monitoring periods of 2023:

- Submitted the Phase IV Additional Groundwater Delineation Well Plan for the installation of additional groundwater monitoring wells onsite and off-site of the Site on January 4, 2023. Additional groundwater delineation was requested by ADEM in the June 2022, *Groundwater Remedy Selection Report and Corrective Action Groundwater Monitoring Program* documents review letter.
- Submitted the 2022 Annual Groundwater Monitoring and Corrective Action Report on January 31, 2023.
- Completed the first semi-annual groundwater sampling event between May 15, 2023 and May 31, 2023.
- Submitted the first 2023 Semi-Annual Groundwater Monitoring and Corrective Action Report on July 31, 2023.
- Completed the Laboratory Treatability Studies Results report for the geochemical manipulation by injection that was selected as one of the corrective measures as described in the Groundwater Remedy Selection Report. The Laboratory Treatability Study Results for the Plant Greene County Ash Pond was included as an Appendix with the 2022 Annual Groundwater Monitoring and Corrective Action Report. A Supplemental Laboratory Treatability Study Results report was completed in January 2024 and is included as **Appendix F**.
- Completed the second semi-annual groundwater sampling event between October 17, 2023 and November 1, 2023.
- Submitted a Class V Underground Injection Control (UIC) permit application for geochemical manipulation by injection, which was selected as one of the corrective measures as described in the Groundwater Remedy Selection Report.
- Performed pre-design investigation (PDI) field work for potential geochemical injection treatment to remediate groundwater at two potential remediation areas (PRA) of the Site to provide data for predictive groundwater modeling and support the design of pilot. The scope of work developed and executed for the PDI included:

- Update the hydrogeologic conceptual site model (HCSM). The HCSM will synthesize existing data into a comprehensive understanding of Site conditions and will be used to evaluate data needs and answer remedial design questions.
- Water level monitoring using pressure transducers installed at select monitoring wells to monitor changes in water levels related to PDI activities (drilling, well development, and groundwater sampling).
- Advance hydraulic profiling tool (HPT) borings at each PRA to collect data to identify relatively permeable zones that may represent primary constituents of interest (COI) flow paths and less-permeable layers that may store and gradually release COI by diffusion into the more permeable zones during remediation.
- Advance direct-push drilling technology (DPT) borings for the visual characterization and logging of soils in conjunction with the HPT data to identify the presence and continuity of coarser, permeable zones and finer-grained, less-permeable zones.
- Collect groundwater screening samples from the higher-permeability zones based on the HPT results and zones with lower permeability to evaluate if COI mass is present that could hinder remediation if sequestered within these zones.

The CCR unit concluded the monitoring period in corrective action and APC will continue implementing the selected groundwater remedies identified in the Groundwater Remedy Selection Report and as detailed in the Corrective Action Groundwater Monitoring Program document submitted to ADEM. The following corrective action and monitoring-related activities are planned for the CCR unit:

- Complete the installation, development, and sampling of the Phase IV additional groundwater wells onsite and off-site pending ADEM approval and off-site property owners access agreements.
- Evaluate PDI data to update the HCSM with input parameters for predictive numeric modeling and to identify continuous zones of higher transmissivity, supporting the design of the pilot test well network that will target zones of impacted Site groundwater.
- Install monitoring wells at each PRA for the collection of groundwater samples to establish baseline (pre-pilot test) concentrations of COI, provide monitor locations for potential tracer testing, and monitor pilot testing performance.
- Conduct the first semi-annual monitoring event scheduled for May 2024 and submit the first semi-annual groundwater monitoring and corrective action report summarizing the findings to ADEM by July 31, 2024.

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Pursuant to 40 CFR § 257.90(e)(6), a **Monitoring Period Summary Table** has been prepared to describe the status of groundwater monitoring and corrective action during the monitoring period for this report.

**Executive Summary Table.  
Monitoring Period Summary  
Plant Greene County - Ash Pond**

Assessment Monitoring Initiated: January 15, 2018
Monitoring Period: January 1 - December 31, 2023
Beginning Status: Corrective Action
Ending Status: Corrective Action

**Statistical Analysis Results \***

**Appendix III SSIs**

<b>Parameter</b>	<b>Wells</b>
Boron	GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-8, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25.
Calcium	GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18.
Chloride	GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-31.
Fluoride	GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18.
pH	GC-AP-MW-5, GC-AP-MW-7, GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17.
Sulfate	GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-14, GC-AP-MW-15.
TDS	GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25.

**Appendix IV SSLs**

<b>Parameter</b>	<b>Wells</b>
Arsenic	GC-AP-MW-1, GC-AP-MW-5, GC-AP-MW-10, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18.
Cobalt	GC-AP-MW-1, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-14, GC-AP-MW-15.
Lithium	GC-AP-MW-5, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21.

\* See the attached report for further details regarding statistical exceedances and alternate source demonstrations.

**Assessment of Corrective Measures & Groundwater Remedy**

**Assessment of Corrective Measures**

Date Initiated: January 13, 2019  
Date Complete: June 12, 2019  
Public Meeting Date: June 29, 2020

**Groundwater Remedy**

Remedy Selection Date: Septmeber 30, 2021  
Initiated During Period: Yes  
Ongoing During Period: Yes

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## ABBREVIATIONS

ACM	Assessment of Corrective Measures
ADEM	Alabama Department of Environmental Management
AL	Alabama
APC	Alabama Power Company
APCEL	APC Environmental Laboratory
ASD	Alternate Source Demonstration
ASTM	Alabama Power Company Environmental Laboratory
BGS	below ground surface
CCR	Coal Combustion Residual
CEC	cation exchange capacity
CFR	Code of Federal Regulations
COC	chain of custody
COI	constituents of interest
CSM	conceptual site model
DO	dissolved oxygen
EPA	United States Environmental Protection Agency
ft	feet
GW	groundwater
GWPS	Groundwater Protection Standard(s)
LCL	Lower Confidence Limit(s)
m	meter
mg/L	milligram per liter
MNA	monitored natural attenuation
MSL	mean sea level
MW-	denotes “Monitoring Well”
NCDS	National Coal Data System
NELAP	National Environmental Laboratory Accreditation Program
NTU	nephelometric turbidity unit
ORP	oxidation reduction potential
pCi/L	picocuries per liter
PE	Professional Engineer
PG	Professional Geologist
PL	prediction limits
PQL	practical quantitation limit
PVC	polymerizing vinyl chloride
QA/QC	quality assurance/quality control
RL	reporting limit
RPD	relative percent difference
SEM	scanning electron microscopy
SM	Standard Method(s)
SSE	selective sequential extraction

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SSI	statistically significant increases
SSL	statistically significant levels
TAL	Test America, Inc.
TOC	top of casing
TDS	total dissolved solids
USGS	Unites States Geological Survey
UTLs	Upper Tolerance Limits
XRD	X-ray diffraction
XRF	X-ray fluorescence

## **1.0 INTRODUCTION**

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D), the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, and ADEM Administrative Order (AO) No. 18-097-GW, this 2023 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2023 semi-annual groundwater monitoring activities at the Plant Greene County Ash Pond (Site). Semi-annual monitoring and associated reporting for Plant Greene County Ash Pond is performed in accordance with the monitoring requirements 40 CFR § 257.90 through § 257.98 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(9).

Semi-Annual Groundwater Monitoring and Corrective Action Reports include an update on groundwater delineation activities completed since the submittal of the Facility Plan for Groundwater Investigation (November 13, 2018) and corrective action activities completed since the submittal of the Corrective Action Groundwater Monitoring Program (December 29, 2021).

## **2.0 MONITORING PROGRAM STATUS**

The Site is currently in corrective action and APC will continue implementation of the selected groundwater remedies identified in the Groundwater Remedy Selection Report and the Corrective Action Groundwater Monitoring Program. In accordance with 40 CFR § 257.94(e) and ADEM Admin. Code r. 335-13-15-.06(5)(e), APC implemented assessment monitoring in January 2018. SSI of Appendix III and SSL of Appendix IV parameters were identified at the Greene County Ash Pond during assessment sampling events. Pursuant to 40 CFR § 257.95(g)(3)(i) and ADEM Admin. Code r. 335-13-15-.06(6)(g)4.(i), and in accordance with 40 CFR § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order AO 18-097-GW, APC completed an ACM on June 12, 2019. The ACM was posted to the Site's CCR compliance web site and a public meeting was held to discuss the ACM on June 29, 2020.

A Groundwater Remedy Selection Report was prepared to meet the requirements of 40 CFR § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of AO No.18-097-GW and submitted to ADEM on September 30, 2021. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on December 29, 2021, for review.

The Corrective Action Groundwater Monitoring Program was prepared to meet 40 CFR § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9) to detect potential downgradient changes in groundwater quality and assess the efficacy of the selected groundwater corrective action remedies. The Monitoring Program has been developed to meet the requirements of 40 CFR § 257.98(a)(1) and ADEM Admin. Code r. 335-13-15-.06(9)(a)(1) and will supplement the ongoing CCR compliance groundwater monitoring currently being performed at the Site.

In accordance with 40 CFR § 257.95 and ADEM Admin. Code r. 335-13-15-.06(6), APC will continue semi-annual monitoring, including all monitoring wells in the certified groundwater monitoring system and any well installed to characterize the horizontal and vertical extent of SSL. APC will continue implementation of the selected groundwater remedies identified in the Groundwater Remedy Selection Report and the Corrective Action Groundwater Monitoring Program submitted to ADEM.

### 3.0 SITE LOCATION AND DESCRIPTION

Plant Greene County is in southeastern Greene County, Alabama. The physical address is 801 Steam Plant Road, Forkland, Alabama 36740. Plant Greene County lies in portions of Sections 21 and 28, Township 19 North, Range 3 East, based on visual inspection of USGS topographic quadrangle maps and GIS maps (USGS, 1980, 1982a, 1982b, 1983). The Ash Pond is located south of the main plant along the Black Warrior River to the south and the barge canal to the east. **Figure 1, Site Location Map**, depicts the location of the Plant and Ash Pond with respect to the surrounding area. The Ash Pond went into service in 1964 and is approximately 474 acres in size.

### 3.1 PHYSICAL SETTING

Plant Greene County is located in the Alluvial-deltaic Plain district of the East Gulf Coastal Plain physiographic province (Sapp and Emplainscourt, 1975). This province consists primarily of flat to gently rolling sandy uplands dissected by deeply entrenched, south to southwest flowing streams and rivers (Dejarnette and Crownover, 1987). Topography at the site gently dips radially from the plant proper and northern portions of the Ash Pond to the barge canal and Black Warrior River. The lowest elevations are approximately 60 feet above mean sea level (MSL) at the northern and southern boundaries, near the Black Warrior River, and along the eastern boundary near the coal docks (barge canal). Away from the river, in the central upland portion of the property, elevations typically range from approximately 80 to 100 feet MSL. The embankment elevations that form the perimeter of the ash pond are generally between 90 and 95 feet MSL. **Figure 2, Site Topographic Map**, provides the topography of the site.

Plant Greene County is located along a bend of the Black Warrior River. The river flows to the east across the northern property boundary, turns to the southeast of the plant, and then flows to the west across the plant's southern and southeastern boundary. East of the Ash Pond, a barge access canal was constructed to service the plant. The barge canal trends north to south and connects to the Black Warrior River near the southeastern corner of the Ash Pond.

### 3.2 SITE GEOLOGY AND HYDROGEOLOGY

The geology of the site is characterized by a sequence of poorly consolidated Mesozoic sedimentary strata unconformably overlying Paleozoic rocks of the Appalachian thrust belt. Mesozoic strata are Cretaceous in age, and in descending stratigraphic order they include the Demopolis Chalk, the Mooreville Chalk, the



Eutaw Formation, the McShan Formation, the Gordo Formation, and the Coker Formation. These Cretaceous strata are generally flat-lying and dip to the southwest at approximately 35 feet per mile (or less than 2 degrees). At Plant Greene County, the Cretaceous sequence is approximately 2,500 feet thick (McIntyre et al., 2010). Quaternary alluvium and low-terrace deposits overlie the Mesozoic strata along stream and river valleys (McIntyre et al., 2010). **Figure 3, Site Geologic Map**, illustrates the surface geology at the site and neighboring areas.

Near the site, the geology consists of Quaternary alluvium deposits overlying Cretaceous Demopolis and Mooreville Chalk formations. Alluvial deposits at the site generally consist of reddish brown to reddish yellow, lean clay overlying reddish brown to tan, poorly-graded sands with interbedded lenses of gravel and clay. The alluvial overburden is 20 to 30 feet thick in the north and 40 to 60 feet thick in the south. The base of the alluvium/top of bedrock occurs between approximately 60 and 80 feet above mean sea level (MSL) on the northern side of the pond, and approximately 40 and 20 feet above MSL towards the southern edge of the pond. Chalk that was encountered during field investigations was described as bluish green to gray clay-like material. The Demopolis Chalk is a fossiliferous chalk. The Mooreville Chalk ranges from a clayey chalk to chalky marl. Both chalk formations are low-permeability strata that retard vertical migration of groundwater in the area (Wahl, 1966). The vertical extent of these formations was not drilled during field investigations, but a search of area well logs stored on the Geological Survey of Alabama website indicates the thickness of the Mooreville and Demopolis Chalk formations are likely around 300 to 400 feet at Plant Greene County. **Figure 4A, Geologic Cross-Section A-A'**, **Figure 4B, Geologic Cross-Section B-B'**, **Figure 4C, Geologic Cross-Section C-C'**, **Figure 4D, Geologic Cross-Section D-D'**, **Figure 4E, Geologic Cross-Section E-E'**, and **Figure 4F, Geologic Cross-Section F-F'**, illustrate the geologic layering beneath the site.

In Greene County, groundwater is available in sand and gravel aquifers of the Cretaceous Eutaw, McShan, Gordo, and Coker formations. These Cretaceous aquifers have a combined thickness of approximately 1,000 feet beneath southern Greene County and exist between depths of approximately 400 to 1,400 feet BGS (Wahl, 1966). Quaternary alluvial and low-terrace deposits also produce sufficient groundwater for domestic or livestock uses. These deposits can be upwards of 80 feet in thickness near present-day streams or rivers and consist of clay, sand, and gravel. Groundwater occurs in the sands and gravels of these alluvial deposits. The Quaternary alluvial and low-terrace deposits are hydraulically separated from deeper Cretaceous aquifers by the low-permeability, confining Mooreville and Demopolis Chalk formations. These units confine underlying aquifers and limit downward percolation of water from the alluvial and low-

terrace aquifers (Wahl, 1966). As described above, these formations are believed to be approximately 300 to 400 feet thick at Plant Greene County.

### 3.2.1 Uppermost Aquifer

The uppermost aquifer beneath the site corresponds to alluvial and low terrace deposits where groundwater occurs in the coarser sand and gravel intervals of Unit 2. At the site, the uppermost aquifer pertains to Unit 2 and is described as a fining upward reddish brown to tan, fine to coarse sand. Unit 2 typically fines upward into more of a clayey sand and near the base coarsens with gravel. Gravel deposits are more prevalent south of the pond and closer to the present-day Black Warrior River. Depth to the uppermost aquifer generally occurs between 10 and 20 feet BGS and is 10 to 15 feet thick near the northern area of the pond and 15 to 30 feet thick near the southern edge of the pond. Aquifer performance testing (slug tests) revealed horizontal hydraulic conductivity values between  $1.68 \times 10^{-3}$  cm/sec and  $8.29 \times 10^{-2}$  cm/sec with an average of  $1.83 \times 10^{-2}$  cm/sec. These equate to a range of 4.76 feet per day to 235 feet per day, with an average of 51.93 feet per day. Horizontal hydraulic values are typically highest to the south in zones where gravels are present (150 to 235 ft/day) and lowest in more clayey intervals (4.76 ft/day). Clean, fine to medium sands at the site generally provide horizontal hydraulic conductivity values between 25 feet per day and 35 feet per day.

The uppermost aquifer can be described as semi-confined at the site. Unit 1 clays, where present, provide an upper confining to semi-confining layer for the uppermost aquifer. For Unit 1 clays, vertical hydraulic conductivity ( $K_z$ ) values obtained from Shelby tube permeameter testing range from  $7.8 \times 10^{-6}$  cm/sec to  $8.0 \times 10^{-8}$  cm/sec ( $2.2 \times 10^{-2}$  ft/d to  $2.3 \times 10^{-4}$  ft/d) with an average of  $1.7 \times 10^{-6}$  cm/sec ( $4.9 \times 10^{-3}$  ft/d). The Demopolis Chalk is encountered beneath the uppermost aquifer and provides a lower confining unit. For Unit 3 chinks, vertical hydraulic conductivity ( $K_z$ ) values obtained from two Shelby tube permeameter tests provide values of  $5.0 \times 10^{-8}$  cm/sec and  $1.4 \times 10^{-8}$  cm/sec ( $1.42 \times 10^{-4}$  ft/d to  $3.97 \times 10^{-5}$  ft/d).

Groundwater recharge to the uppermost aquifer is largely accomplished by infiltration of precipitation and subsequent percolation down to the water table. Recharge rates are estimated at between 9% and 15% of precipitation, or 5 to 6 inches per year of recharge with an overall range of 1 to 8 inches. Temporary recharge to the aquifer can occur during high stage or flood events of the Black Warrior River where surface water can infiltrate through hydraulically connected sand beds or infiltration of flooded water. Locally, the uppermost aquifer is hydraulically separated from deeper Cretaceous aquifer systems by 300 to 400 feet of low-permeability chalk exhibiting a permeability in the range of  $10^{-8}$  centimeters/second.

### 3.2.2 Flow Interpretation

Groundwater flow is accomplished by porous (Darcy) flow mechanics with potential for preferential movement along more conductive sand and gravel lenses. Groundwater flow at the site is a subdued replica of the natural topography where gravity is the dominant force driving flow. Historically, groundwater flows from higher topographic elevations near the northernmost edge of the ash pond towards surface water bodies to the north, east, and south-southeast.

A component of the ash pond closure project involves the construction of a hydraulic barrier wall that encircles the ash consolidation area and is keyed into the underlying chalk formations. The barrier wall system includes the northern segment of the existing dike (Phase I), the recently constructed Phase II east interior dike segment, and the future construction of barrier wall segments west and south to complete the consolidation area. The northern exterior dike and eastern interior dike segments of the barrier wall were installed using the slurry trench method, as a slag-cement-bentonite wall. Construction of the northern dike slurry wall (approximately 5,353 feet long) occurred between June 4, 2020, and June 24, 2020. The performance requirements for the wall, as identified in the technical specification, are a hydraulic conductivity of less than or equal to  $1 \times 10^{-7}$  centimeters per second. Compatibility testing and modeling results conducted through February 5, 2021, indicate test samples exceed the hydraulic conductivity project requirements (i.e., more impermeable). The installation of the slurry wall has effectively created an engineered groundwater divide impeding historic groundwater flow towards the surface water body to the north. Groundwater elevations measured inside and outside of the barrier wall indicate that flow inside the ash pond is now focused to the south and southeast along higher hydraulic gradients. The construction contractor for the CCR unit closure installed instrumentation, including vibrating wire piezometers for water level monitoring, to monitor performance and stability during closure construction activities. Vibrating wire piezometer instrumentation was installed inside and outside of the constructed northern barrier wall. The data were used along with the existing monitoring well network to interpret groundwater flow direction. Phase II construction of the eastern interior dike slurry wall (approximately 1,660 feet long) occurred between December 7, 2022 and January 11, 2023. Compatibility testing and modeling results are currently pending technical review.

A natural topographic high southwest of the pond provides a localized mound where groundwater elevations are higher than neighboring monitoring wells. From this topographic high, groundwater flow may be radial to semi-radial, depending on if conditions develop: (1) northeast flow toward the ash pond

or (2) no flow between the topographic high and southwest corner of the ash pond. Potentiometric surface maps are presented in **Section 4.0**.

In general, groundwater elevation data indicate that water levels tend to be higher in the early spring and summer, and lower during fall and winter. Groundwater elevations fluctuate in response to rainfall and changes in the Black Warrior River. Seasonal variations of 2 to 13 feet are typical at the site. Fluctuations are typically greater in magnitude at wells closer to surface water bodies to the southeast and east of the Greene County Ash Pond and lower in magnitude to the north and northwest.

### **3.3 GROUNDWATER MONITORING SYSTEM**

Pursuant to 40 CFR § 257.91 and ADEM Admin. Code r. 335-13-15-.06(2), Plant Greene County has installed a groundwater monitoring system to monitor groundwater within the uppermost aquifer. The certified groundwater monitoring system for the Plant Greene County Ash Pond is designed to monitor groundwater passing the waste boundary of the CCR unit within the uppermost aquifer. Wells were located to serve as upgradient or downgradient monitoring locations based on groundwater flow direction as determined by the potentiometric surface elevation contour maps.

Monitoring wells were screened in the Watercourse Aquifer. The Watercourse Aquifer is composed of Quaternary alluvial and low terrace deposits consisting of interbedded sand, gravel, and clay (USGS, 1988). The monitoring systems are designed to monitor water quality as groundwater flows laterally from north to south across the site. All groundwater monitoring wells were designed and constructed using “Design and Installation of Groundwater Monitoring Wells in Aquifers,” ASTM Subcommittee D18.21, as a guideline.

#### **3.3.1 Monitoring Wells**

Well locations at the site are designated as upgradient, downgradient, piezometer (water-level only), and horizontal delineation. The following subsections provide a summary of well designations and if applicable, changes or modifications to the well network or designations. As described in the site Groundwater Monitoring Plan, modifications to the well network or designation must first be approved by ADEM.

The location and designation of site wells are presented on **Figure 5, Monitoring Well Location Map**, **Table 1a, Compliance Monitoring Well Network Details**, **Table 1b, Delineation Well Network Details**, and **Table 1c, Piezometer Well Network Details**, summarize the monitoring well construction details and design purpose for the Plant Greene County Ash Pond.

### 3.3.1.1 Upgradient Wells

Data used to establish background water quality or selection of upgradient wells include (1) review of groundwater elevation data and potentiometric surface contour maps to determine groundwater flow direction and (2) screening of Appendix III CCR indicator parameters for apparently elevated concentrations.

Monitoring well locations GC-AP-MW-23, GC-AP-MW-24, and GC-AP-MW-26 through GC-AP-MW-30 serve as upgradient locations for the Ash Pond. Upgradient wells are located northeast and east of the Ash Pond as determined by water level monitoring and potentiometric surface maps constructed for the site and are separated hydraulically by no flow zones or the Greene County barge canal. **Table 1a** summarizes the monitoring well construction details and design purpose.

### 3.3.1.2 Downgradient Wells

Monitoring well locations GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5 through GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-31, GC-AP-MW-32, and GC-AP-MW-33 are used as downgradient locations for the Ash Pond. Downgradient locations are located north, south, east, and west of the Ash Pond as determined by water level monitoring and potentiometric surface maps constructed for the site. **Table 1a** summarizes the monitoring well construction details and design purpose.

### 3.3.1.3 Delineation Well Installation

Pursuant to 40 CFR § 257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-097-GW, additional wells were installed to characterize the horizontal extent of GWPS exceedances identified during assessment monitoring. Phase I was conducted between December 2018 and August 2019. Eleven horizontal delineation wells, GC-AP-MW-34HA and GC-AP-MW-35H through GC-AP-MW-44H, were installed and sampled to assess the lateral extent of groundwater impact in the directions of groundwater flow away from the facility. One existing piezometer, GC-AP-PZ-4, was also used for horizontal delineation. Vertical delineation wells were not needed at the site because the uppermost aquifer is confined at its base by low-permeability chalk exhibiting a permeability in the range of  $10^{-8}$  centimeters/second.

Following a review of data gathered from the Phase I investigation, additional groundwater investigation was proposed to ADEM in a Phase II Delineation Plan submitted August 15, 2019. The purpose of the plan was to further delineate the horizontal extent of groundwater impacts. Twelve additional horizontal delineation wells were proposed in a plan submitted to ADEM in August 2019. Seven additional on-site

horizontal delineation wells, located adjacent to the north and northwest property boundaries (GC-AP-MW-53H, GC-AP-MW-54H, GC-AP-MW-56H, and GC-AP-MW-57H) and the south and southwest property boundaries (GC-AP-MW-45H, GC-AP-MW-48H, and GC-AP-MW-49H), were installed in December 2019.

Six additional delineation wells were installed off-site, and access agreements with the property owners were required. An off-site access agreement was reached in April 2020 with one adjacent landowner and four additional delineation wells were installed in May 2020. Delineation wells GC-AP-MW-47HO and GC-AP-MW-50HO were installed south and southwest of the property boundary. Delineation wells GC-AP-MW-59HO and GC-AP-MW-55HO were installed west and northwest of the property boundary. Off-site access agreements were reached in June 2020 with the two remaining adjacent landowners to the south and the west of the Site and two additional delineation wells were installed in June 2020. Delineation wells GC-AP-MW-46HO and GC-AP-MW-52HO were installed south and west of the property boundaries, respectively.

Following a review of the March 2021 analytical data, it was determined that additional (Phase III) off-site delineation was necessary to the northwest, west, southwest, and south of the property boundary. Off-site access agreements were reached with the two of the three property owners in May 2021. Delineation wells GC-AP-MW-60HO and GC-AP-MW-61HO were installed northwest of the property boundary and GC-AP-MW-62HO, GC-AP-MW-63HO, and GC-AP-MW-64HO were installed southwest and south of the property boundary in June 2021.

A plan for the installation of additional onsite and off-site delineation wells is pending ADEM approval and off-site access agreements with adjacent property owners. Delineation wells are identified on **Figure 5** and detailed on **Table 1b**. All delineation wells are sampled semi-annually as part of the semi-annual groundwater monitoring program.

#### **3.3.1.4 Piezometers**

Locations GC-AP-PZ-19 and GC-AP-PZ-22 are used as water-level only piezometers. The piezometers are used to enhance groundwater potentiometric surfaces and constrain flow direction. Measurable water levels in piezometer GC-AP-PZ-22 fluctuate seasonally and it is planned to be abandoned because the piezometer is predominantly dry. **Table 1c** summarizes the water-level only piezometer construction details.

### 3.3.1.5 Monitoring Well Replacement and Abandonment

Monitoring well replacements or abandonments were not performed during the 2023 annual monitoring period. **Table 1d, Abandoned Well Network Details**, provides the monitoring well details for previously abandoned wells.

## 3.4 GROUNDWATER MONITORING HISTORY

In accordance with 40 CFR § 257.94(b), eight independent samples were collected from each background and downgradient well and analyzed for the constituents listed in Appendix III and IV prior to October 17, 2017. Background sampling was performed from February 2016 to June 2017. Groundwater sampling for the first detection monitoring event after the background period was performed in August 2017.

Based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, APC initiated an assessment monitoring program on January 15, 2018. Pursuant to 40 CFR § 257.95(a) and ADEM Admin. Code r. 335-13-15-.06(6)(a), monitoring wells were sampled for all Appendix IV parameters in February 2018, within 90 days of initiating the assessment monitoring program. Semi-annual assessment sampling continued with sampling events in June and November of 2018, March and September 2019, April and August 2020, and March and August 2021.

Statistical evaluations of 2018 assessment monitoring data identified SSL of Appendix IV constituents above the GWPS, and the site entered Assessment of Corrective Measures. Pursuant to 40 CFR § 257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-097-GW, additional monitoring wells (**Table 1b, Figure 5**) were installed to characterize the horizontal and vertical extent of GWPS exceedances identified during assessment monitoring in three phases of groundwater investigations between December 2018 and June 2021. These wells, along with the compliance monitoring well network, are sampled semi-annually. Delineation wells installed at the Site have been sampled concurrently with the compliance monitoring well network. However, additional delineation well installations and data collection have occurred independent of routine compliance sampling events to support continuing assessment activities at the site.

### **3.4.1 Available Monitoring Data**

Laboratory analytical data is available for the groundwater monitoring history outlined in **Section 3.4**. Tabulated results for Appendix III and Appendix IV constituents by monitoring well are included in **Appendix A, Analytical Data Summary**.

### **3.4.2 Historical Groundwater Flow**

Historically, groundwater elevations and potentiometric surface maps show that groundwater flow patterns have been consistent across monitoring events. However, as described in **Section 3.2.2**, as ash pond closure activities progress over the years and upon completion of closure, groundwater elevations will likely display variability representative of changing site hydrodynamics and eventually, a new set of equilibrium conditions. The consolidation of CCR material, as well as the process and installation of a containment berm and slurry wall, will have transient and long-term impacts on groundwater flow directions and velocities away from the CCR unit. As this timeline progresses, groundwater elevations and trends will be qualitatively reviewed against this historical data set. Tables summarizing groundwater elevations from all groundwater monitoring events are included in **Appendix B, Historical Groundwater Elevations Summary**.

### **3.4.3 Monitoring Variances**

The groundwater monitoring program at the site is operating under a Variance granted by ADEM on April 15, 2019, to conform State monitoring requirements under the CCR rule to Federal requirements. The variance:

1. Retains boron as an Appendix III detection monitoring parameter and excludes it as an Appendix IV monitoring parameter.
2. Authorizes the use of Federally-published groundwater protection standards (GWPS) of 0.006 milligrams per liter (mg/L) for cobalt; 0.015 mg/L for lead; 0.040 mg/L for lithium; and 0.100 mg/L for molybdenum in lieu of background where those levels are greater than background levels.



### **3.5 GROUNDWATER SAMPLING AND ANALYSIS**

Site compliance wells are sampled semi-annually in: (1) late winter to mid-spring and (2) early to late fall. The temporal spacing between sampling events is sufficient to ensure that sampling events yield independent groundwater samples and a general representation of the different climatic or meteorological seasons that create a degree of natural variability in groundwater quality.

During routine semi-annual monitoring events, all compliance and delineation network wells are sampled and analyzed for Appendix III and Appendix IV constituents. The following subsections summarize the sequential steps and process for the sampling, handling and transport, and analysis of compliance-related groundwater samples at the site.

#### **3.5.1 Groundwater Sample Collection**

Prior to recording water levels and collecting samples, each well was opened and allowed to equilibrate to atmospheric pressure. Within a 24-hour period, depths to groundwater were measured to the nearest 0.01 foot with an electronic water level indicator with depth referenced from the top of the inner PVC well casing. Groundwater elevations were calculated by subtracting the depth to groundwater from surveyed top-of-casing (TOC) elevations.

Groundwater samples were collected from monitoring wells using low-flow sampling procedures in accordance with 40 CFR § 257.93(a) and ADEM Admin. Code r. 335-13-15-.06(4)(a). All monitoring wells at Plant Greene County are equipped with a dedicated pump. Monitoring wells were purged and sampled using low-flow sampling procedures. In this procedure, field water quality parameters (pH, turbidity, conductivity, and dissolved oxygen) are measured to determine stabilization and groundwater samples are collected when the following stabilization criteria are met:

- 0.2 standard units for pH.
- 5% for specific conductance.
- 0.2 Mg/L or 10% for DO > 0.5 mg/l (whichever is greater).
- Turbidity measurements less than 10 NTU.
- Temperature and ORP – record only, no stabilization criteria.

During purging and sampling, an in situ Aqua Troll instrument was used to monitor and record field parameters. All downhole groundwater monitoring equipment was calibrated prior to sample collection per the manufacturer's specifications outlined in the Alabama Power Environmental Affairs (EA) Water and Field Group (WFG) Technical Standard Operating Procedure, dated December 14, 2021. Once stabilization was achieved, samples were collected and submitted to the laboratory following standard chain-of-custody (COC) protocol. Field data recorded in support of groundwater sampling activities for the monitoring events are included in **Appendix C, Laboratory and Field Records**.

### **3.5.2 Sample Preservation and Handling**

Groundwater samples were collected in the designated size and type of laboratory-supplied containers required for specific parameters. Sample bottles were pre-preserved by the laboratory. Where temperature control was required, samples were placed in an ice-packed cooler and cooled to less than 6 °C immediately after collection. Blue ice or other cooling packs were not used for cooling samples. An ice-packed cooler was on hand when samples were collected.

### **3.5.3 Chain of Custody**

A chain-of-custody (COC) record was used to track sample possession from the time of collection to the time of receipt at the laboratory. All samples were handled under strict COC procedures beginning in the field. COC records are included with the analytical laboratory reports presented in **Appendix C**.

### **3.5.4 Laboratory Analysis**

Laboratory analyses were performed by the APC Environmental Laboratory (APCEL) in Calera, Alabama, and Pace Analytical LLC (Pace) in Greensburg, Pennsylvania. Both APCEL and Pace are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed. **Table 2, Parameters and Reporting Limits**, lists monitoring constituents analyzed from site groundwater samples. Laboratory reports for the monitoring period are presented in **Appendix C**.

### **3.5.5 Monitoring Period Sampling Events Summary**

As required by 40 CFR § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(e), the following describes monitoring-related activities performed during the monitoring period. The first semi-annual monitoring event was conducted between May 15, 2023, and May 31, 2023. The second 2023 semi-annual monitoring event was conducted between October 17 and November 1, 2023.

Groundwater samples are analyzed for the full list of Appendix III and Appendix IV parameters during each monitoring event. Additionally, general chemistry and monitored natural attenuation monitoring parameters are sampled and analyzed for each monitoring event. These analytes have been incorporated for continued evaluations of geochemical facies and their evolution over time. These analytes will also support geochemical modeling and evaluations associated with monitored natural attenuation. These parameters include:

- Calcium (filtered)
- Iron (total and dissolved)
- Silicon (total and dissolved)
- Silica (total and dissolved)
- Sodium (total and dissolved)
- Sulfide
- Potassium
- Aluminum (total and dissolved)
- Manganese
- Magnesium (total and filtered)
- Nitrate-Nitrite
- Total Alkalinity, Carbonate Alkalinity, Bicarbonate Alkalinity
- Total Organic Carbon.

All groundwater sampling activities were conducted by APC Field and Water Services. Pace Analytical Services performed the laboratory analyses of Radium-226 and Radium-228 (reported combined). APCEL performed the remaining Appendix III and Appendix IV analyses. Analytical data from the groundwater monitoring events is included as **Appendix C** in accordance with the requirements of 40 CFR § 257.90(e)(3) and ADEM Admin. Code r. 335-13-15-.06(1)(f)3.

#### 4.0 GROUNDWATER ELEVATIONS AND FLOW

During the first 2023 sampling event, groundwater elevations ranged from 92.94 to 75.04 feet North American Vertical Datum 1988 (NAVD88). **Figure 6A, Potentiometric Surface Contour Map (May 15, 2023)**, depicts groundwater elevations and inferred groundwater flow direction during the first semi-annual sampling event of 2023.

During the second 2023 sampling event, groundwater elevations ranged from 91.77 to 73.34 feet NAVD88. **Figure 6B, Potentiometric Surface Contour Map (October 17, 2023)**, depicts groundwater elevations and inferred groundwater flow direction during the second semi-annual sampling event of 2023.

As shown on **Figures 6A and 6B**, groundwater flow is generally towards the south with some flow observed towards the north, west, and east. As previously discussed in section **3.2.2**, the installation of the slurry wall has effectively created an engineered groundwater divide impeding historic groundwater flow towards the surface water body to the north. Groundwater elevations measured inside and outside of the barrier wall indicate that flow inside the ash pond is now focused to the south and southeast along higher hydraulic gradients.

Groundwater elevation data from delineation monitor well GC-AP-MW-38H are not included in the potentiometric surface contour maps. The monitor well was installed in an area of perched water located along the barge canal and adjacent to monitor well GC-AP-MW-17. Recent groundwater elevation data have been tabulated and included in **Table 3, Recent Groundwater Elevations Summary**. All available historical groundwater elevation data recorded since 2016 has been tabulated and included in **Appendix B**.

#### 4.1 GROUNDWATER ELEVATION CHANGES

Notable changes to groundwater elevations have been observed. The installation of the northern section (Phase 1) of the slurry wall, implemented as a key aspect of ash pond closure, dewatering, and source control, appears to have significantly reduced groundwater elevations in wells GN-AP-MW-1, GN-AP-MW-2, GN-AP-MW-3, GN-AP-MW-6, and GN-AP-MW-25. A reduction in groundwater elevation was noted in August 2020 and March 2021, close to the completion date of the slurry wall section (July 2020). Closure construction dewatering of the former sedimentation basin and old borrow area, located along the southern end of the Site, appears to have significantly reduced groundwater elevations in wells GN-AP-MW-10, GN-AP-MW-11, GN-AP-MW-12, GN-AP-MW-13, and GN-AP-MW-21.

Groundwater elevations have decreased in downgradient compliance wells since the cease receipt date of CCR and initiation of closure activities. This pattern is chiefly observed immediately north, west, and south of ash pond boundaries. Wells along the eastern waste boundary have shown little change to date. Groundwater elevations are an average of 3.0 feet lower in compliance wells GC-AP-MW-1 through GC-AP-MW-14 when comparing historical data to data gathered after March 2019. These data indicate that closure activities have lowered groundwater elevations, which signifies (1) groundwater elevations are returning to more normal conditions and (2) some degree of source control.

## 4.2 GROUNDWATER FLOW VELOCITY CALCULATIONS

Groundwater flow rates at the site were calculated based on hydraulic gradients, hydraulic conductivity from previous slug test results, and an estimated effective porosity of the screened horizon. Based on slug test data at the site, hydraulic conductivity ranges from  $1.68 \times 10^{-3}$  cm/sec to  $8.29 \times 10^{-2}$  cm/sec with an average of  $1.83 \times 10^{-2}$  cm/sec. These equate to a range of 4.76 feet per day to 235 feet per day, with an average of 51.93 feet per day, which is used in the flow calculations. An effective porosity of 25% was used based on the default values for effective porosity recommended by EPA for a silty sand-type soil (U.S. USEPA, 1996). The hydraulic gradient was calculated between well pairs shown in **Appendix D, Horizontal Groundwater Flow Velocity Calculations**.

Horizontal flow velocity was calculated using the commonly-used derivative of Darcy's Law:

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

Where:

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

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

$i$  = Horizontal hydraulic gradient

$n_e$  = Effective porosity

**Appendix D** presents the estimated horizontal flow velocity calculated using groundwater elevation data from the first and second 2023 semi-annual sampling events.

## 5.0 EVALUATION OF GROUNDWATER QUALITY DATA

During each sampling event, quality assurance/quality control samples (QA/QC) were collected at a rate of one sample per every group of 10 well samples. These QA/QC samples include well duplicates, equipment blanks, and field blanks. Routine analyses of field QA/QC samples are a method for evaluating whether artificial bias could have been introduced into lab results by ways of sampling activities or equipment.

### 5.1 DATA VALIDATION – QUALITY ASSURANCE/QUALITY CONTROL

Analytical precision is measured through the calculation of the relative percent difference (RPD) of two data sets generated from a similar source. Here, a comparison of results between samples and field duplicate samples are used as measure of laboratory precision. Where field duplicates are collected, the RPD between the sample and duplicate sample is calculated as:

$$RPD = \frac{Conc1 - Conc2}{(Conc1 + Conc2)/2}$$

Where:

RPD = Relative Percent Difference (%)

Conc1 = Higher concentration of the sample or field duplicate

Conc2 = Lower concentration of the sample or field duplicate

Where RPD is below 20%, the difference is considered acceptable, and no further action is needed. Where an RPD is greater than 20%, further evaluation is required to attempt to determine the cause of the difference and potentially result in qualified data. **Table 4a, Relative Percent Difference (RPD) Calculations**, provides the RPDs for sample and sample duplicates during the first and second semi-annual monitoring event of 2023. All RPDs were below 20% for the first and second 2023 semi-annual sampling event.

Analytical data reviewed provided low-level or trace detections in field and equipment blanks during the monitoring period sampling events. **Table 4b, Field QC: Blank Detections**, provides a summary of low-level detections observed during the first and second 2023 semi-annual monitoring events. Each of these detections was estimated concentrations above the MDL but below the RL, and qualified in the laboratory

analytical reports with “J flags.” However, if concentrations are detected above the MDL in field QC samples, original results on the (1) date of a blank detection and (2) with a value less than 5 times the field QC detection are flagged with a (+) U\* and MDL/RL values modified based upon the blank concentration.

Validated flags do not have an impact on possible statistical analyses due to: (1) low-level concentrations flagged during validation or (2) constituents flagged are not Site COI. The extent of trace chromium detections in blanks can be explained by a low MDL value of 0.000203 mg/L.

## **5.2 STATISTICAL METHODOLOGY AND TESTS**

The Sanitas groundwater statistical software is used to perform the statistical analyses. Sanitas is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by EPA regulations. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the USEPA Unified Guidance (2009).

### **5.2.1 Appendix III Evaluation**

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for boron, calcium, chloride, fluoride, pH, sulfate, and TDS. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the same limit for each parameter. If the most recent sample exceeds its respective background statistical limit, an initial statistically significant increase (SSI) is identified.

Groundwater Stats Consulting demonstrated these test methods were appropriate in the October 2017 Statistical Analysis Plan, which was updated in the September 2019 data screening evaluation and included in the revised Statistical Analysis Plan (August 2020). Time series plots were used to screen proposed background data for suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective. Suspected outliers at all wells for Appendix III parameters are formally tested using Tukey’s box plot method and, when identified, flagged in the computer database.

The following adjustments were made:

- No statistical analyses are required on wells and analytes containing 100% non-detects (EPA Unified Guidance, 2009, Chapter 6).

- When data contain <15% non-detects in the background, simple substitution of one-half the reporting limit is used in the statistical analysis. The reporting limit used for non-detects is the practical quantitation limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data.
- Non-parametric prediction limits are used on data containing greater than 50% non-detects.

### 5.2.2 Appendix IV Evaluation

When in corrective action monitoring, Appendix IV constituents are sampled semi-annually, and concentrations are compared to GWPS. Following the Unified Guidance, spatial variation for Appendix III parameters is tested using the ANOVA; this test is not prescribed for Appendix IV constituents. Unlike the statistical evaluation of Appendix III constituents (where single-sample results are compared to the statistical limit), Appendix IV analysis uses the pooled results from each downgradient well to develop a well-specific Confidence Interval that is compared to the statistical limit. The statistical limit is either the Interwell Tolerance Limit (i.e., background) calculated using the pool of all available upgradient well data (see Chapter 7 of the Unified Guidance), or an applicable groundwater protection standard such as the MCL. Appendix IV background data are screened for outliers and extreme trending patterns that would lead to artificially elevated statistical limits.

Parametric tolerance limits (UTL) were calculated using pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent on the number of background samples. The UTLs were then used as the GWPS.

As described in 40 CFR §§ 257.95(h)(1)-(3) and the ADEM Variance, the GWPS is:

- (1) The maximum contaminant level (MCL) established under 40 CFR §§ 141.62 and 141.66.
- (2) Where an MCL has not been established:
  - (i) Cobalt 0.006 mg/L.
  - (ii) Lead 0.015 mg/L.
  - (iii) Lithium 0.040 mg/L.
  - (iv) Molybdenum 0.100 mg/L.
- (3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.



In corrective action monitoring, when the lower confidence limit (LCL), or the entire confidence interval, exceeds the GWPS as discussed in the USEPA Unified Guidance (2009), the result is recorded as an SSL. Data from upgradient wells collected in between updates may still be used to support ASDs if merited.

### 5.3 STATISTICAL EXCEEDANCES

Analytical data from the semi-annual monitoring events in May 2023 and October-November 2023 were statistically analyzed in accordance with the professional engineer (PE)-certified Statistical Analysis Plan (October 2017 and revised in August 2020) by Groundwater Stats Consulting. Appendix III statistical analysis was performed to determine if constituents had returned to background levels. Appendix IV monitoring parameters were evaluated to determine if concentrations statistically exceeded the established groundwater protection standard.

#### 5.3.1 Appendix III Constituents

Based on review of the Appendix III statistical analyses presented in **Appendix E, Statistical Analyses**, Appendix III constituents have not returned to background levels.

#### 5.3.2 Appendix IV Constituents

**Table 5, Summary of Background Levels and Groundwater Protection Standards**, summarizes the background limit established at each monitoring well and the GWPS. A summary table of the statistical limits accompanies the prediction limits in **Appendix E**.

##### 5.3.2.1 First Semi-Annual Groundwater Monitoring Event

Statistical analysis of Appendix IV data identified the following SSL over GWPS at the listed wells during the first semi-annual monitoring event of 2023:

- GC-AP-MW-1: Arsenic, Cobalt.
- GC-AP-MW-2: Cobalt.
- GC-AP-MW-5: Arsenic, Lithium.
- GC-AP-MW-9: Cobalt
- GC-AP-MW-10: Arsenic, Cobalt, Lithium.
- GC-AP-MW-11: Lithium.
- GC-AP-MW-12: Lithium.

- GC-AP-MW-13: Lithium.
- GC-AP-MW-14: Arsenic, Cobalt, Lithium.
- GC-AP-MW-15: Cobalt, Lithium.
- GC-AP-MW-16: Arsenic, Lithium.
- GC-AP-MW-17: Arsenic, Lithium.
- GC-AP-MW-18: Arsenic, Lithium.
- GC-AP-MW-21: Lithium.

Statistical analysis of Appendix IV concentrations over GWPS from monitoring well GC-AP-MW-2 identified cobalt as an SSL for the first time during the first 2023 semi-annual sampling event. **Table 6, First Semi-Annual Monitoring Event Analytical Results Summary**, provides a summary of all detected constituents for the first semi-annual sampling event.

The analytical result for selenium in well GC-AP-MW-13 on April 6, 2022, provided a result of 0.111 mg/L. This result exceeds the GWPS, and upon an initial review of historical data, was notably different than the historical concentration range (0.004 – 0.07 mg/L) and no previous upward trend was observed. The well was re-sampled on May 17, 2022, and the result provided was 0.045 mg/L which is below GWPS and more in line with the historical concentration range.

### 5.3.2.2 Delineation Wells

Analytical data derived from delineation wells are not statistically analyzed. A review of analytical data from delineation wells identified concentrations over GWPS for the following well and analyte pairs during the first semi-annual sampling event of 2023:

- GC-AP-MW-39H: Arsenic, Lithium.
- GC-AP-MW-40H: Lithium.
- GC-AP-MW-41H: Cobalt, Lithium.
- GC-AP-MW-42H: Cobalt.
- GC-AP-MW-43H: Arsenic, Cobalt, Lithium.
- GC-AP-MW-44H: Cobalt.
- GC-AP-MW-45H: Lithium.
- GC-AP-MW-46HO: Lithium.
- GC-AP-MW-48H: Lithium.
- GC-AP-MW-49H: Lithium.

- GC-AP-MW-50HO: Lithium.
- GC-AP-MW-53H: Arsenic.
- GC-AP-MW-54H: Arsenic, Cobalt, Lithium.
- GC-AP-MW-57H: Cobalt.
- GC-AP-MW-59HO: Cobalt.
- GC-AP-MW-64HO: Lithium
- GC-AP-PZ-4: Cobalt.

### 5.3.2.3 Second Semi-Annual Groundwater Monitoring Event

Statistical analysis of Appendix IV data identified the following SSL over GWPS at the listed wells during the second semi-annual monitoring event of 2023:

- GC-AP-MW-1: Arsenic, Cobalt.
- GC-AP-MW-2: Cobalt.
- GC-AP-MW-5: Arsenic, Lithium.
- GC-AP-MW-9: Cobalt
- GC-AP-MW-10: Arsenic, Cobalt, Lithium.
- GC-AP-MW-11: Cobalt, Lithium.
- GC-AP-MW-12: Lithium.
- GC-AP-MW-13: Lithium.
- GC-AP-MW-14: Arsenic, Cobalt, Lithium.
- GC-AP-MW-15: Cobalt, Lithium.
- GC-AP-MW-16: Arsenic, Lithium.
- GC-AP-MW-17: Arsenic, Lithium.
- GC-AP-MW-18: Arsenic, Lithium.
- GC-AP-MW-21: Lithium.

Statistical analysis of Appendix IV concentrations over GWPS from monitoring well GC-AP-MW-11 identified cobalt as an SSL for the first time during the second 2023 semi-annual sampling event. **Table 7, Second Semi-Annual Monitoring Event Analytical Results Summary**, provides a summary of all detected constituents for the second semi-annual sampling event.

#### 5.3.2.4 Delineation Wells

Analytical data derived from delineation wells are not statistically analyzed. A review of analytical data from delineation wells identified concentrations over GWPS for the following well and analyte pairs during the second semi-annual sampling event of 2023:

- GC-AP-MW-39H: Arsenic, Lithium.
- GC-AP-MW-40H: Lithium.
- GC-AP-MW-41H: Cobalt, Lithium.
- GC-AP-MW-42H: Cobalt, Lithium.
- GC-AP-MW-43H: Arsenic, Cobalt, Lithium.
- GC-AP-MW-44H: Cobalt.
- GC-AP-MW-45H: Lithium.
- GC-AP-MW-46HO: Lithium.
- GC-AP-MW-48H: Lithium.
- GC-AP-MW-49H: Lithium.
- GC-AP-MW-50HO: Lithium.
- GC-AP-MW-53H: Arsenic.
- GC-AP-MW-54H: Arsenic, Cobalt, Lithium.
- GC-AP-MW-57H: Arsenic, Cobalt.
- GC-AP-MW-59HO: Cobalt.
- GC-AP-MW-64HO: Lithium
- GC-AP-PZ-4: Cobalt.

To address SSL at the site, an ACM was prepared to evaluate potential groundwater corrective measures for the occurrence of arsenic, cobalt, and lithium in groundwater at the site in accordance with 40 CFR § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and AO No. 18-097-GW. The ACM was submitted to ADEM and placed in the operating record on June 12, 2019. A Groundwater Remedy Selection Report was prepared and submitted to ADEM on September 30, 2021. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on December 29, 2021, for review.

## **6.0 GROUNDWATER ASSESSMENT AND CORRECTIVE ACTION**

As required by Part E of the Order (AO 18-097-GW) and correspondence from ADEM (March 2021), this report includes an update of groundwater delineation activities completed since the submittal of the Facility Plan for Groundwater Investigation (November 13, 2018). The primary purpose of this plan and subsequent phases of work was to identify the horizontal extent of groundwater impacts defined by EPA Appendix IV groundwater protection standards.

A comprehensive groundwater delineation report summarizing findings was submitted to ADEM in September 2020. The conclusions and results presented indicated that groundwater delineation had been completed to a sufficient degree to define spatial extent of groundwater impacts and to inform a groundwater remedy selection plan. However, following a review of the March 2021 groundwater sampling event analytical data, it was determined that additional off-site delineation (Phase III) was necessary to further delineate the horizontal extent of groundwater impacts northwest, west, southwest, and south of the property boundary. Additional groundwater delineation was requested by ADEM in the June 2022 *Groundwater Remedy Selection Report and Corrective Action Groundwater Monitoring Program* documents review letter. APC submitted the Phase IV Additional Groundwater Delineation Well Plan for the installation of additional groundwater monitoring wells on-site and off-site of the Site on January 4, 2023.

### **6.1 CHRONOLOGY OF DELINEATION ACTIVITIES**

Beginning in 2019, Semi-Annual Progress Reports were routinely provided to ADEM each year in March and September. APC requested approval to combine information typically provided in the Semi-Annual Progress Reports with Semi-Annual Groundwater Monitoring and Corrective Action Reports on March 15, 2021. ADEM approved this approach and revised the timeline for submittals on March 16, 2021. APC now provides ADEM with a discussion of delineation results and corrective action activities in each semi-annual groundwater monitoring and corrective action report until released in writing.

#### **6.1.1 Delineation Wells**

Part B of the Order required the installation of additional wells as necessary to define the extent of groundwater impacts. The follow sections describe monitoring wells installed to delineate impacts to groundwater.

### **Phase I – Groundwater Investigation (December 2018 – August 2019)**

Phase I was conducted between December 2018 and January 2020. **Table 1b** and **Figure 5** present details and locations of delineation wells. The following summarizes all activities that were completed during Phase I of groundwater delineation at the Site:

- Installation of 11 horizontal delineation wells (GC-AP-MW-34HA, GC-AP-MW-35H through GC-AP-MW-44H) proximal to the property boundary installed in the Unit 2 Aquifer and in the direction of groundwater flow away from the facility between December 17, 2018 and January 10, 2019.
- Collected eight ash samples for waste characterization analyses.
- Successfully developed all 11 delineation wells between December 27, 2018 and January 13, 2019.
- Sampled the 11 delineation wells and 3 pre-existing ash pond piezometers between January 14, 2019 and March 28, 2019.
- Evaluation of wells that suggest additional investigation of adjacent property is necessary to determine whether a plume of Appendix IV constituents may statistically exceed groundwater protection standards on that property.
- Submitted a semi-annual progress report to ADEM on March 29, 2019.
- Submitted a Groundwater Investigation Report to ADEM on May 13, 2019. This report recommended a second phase of groundwater investigation to complete delineation of groundwater impacts as required by Part B of the Order.
- Submitted an Assessment of Corrective Measures to ADEM on July 11, 2019, as required by Part C of the Order.
- Submitted a Phase II – Groundwater Delineation Plan to ADEM on August 15, 2019. This plan documented planned activities associated with proposed Phase II delineation efforts.

### **Phase II – Groundwater Investigation (September 2019 – August 2020)**

Following a review of data gathered from the Phase I Investigation, additional groundwater investigation was proposed to ADEM in a Phase II Delineation Plan submitted August 15, 2019. The purpose of the plan was to further delineate horizontal extent of groundwater impacts. Phase II was conducted between September 2019 and March 2020. **Table 1b** and **Figure 5** present details and locations of delineation wells. The following summarizes all activities that were completed during Phase II of groundwater delineation at the Site:

- Completed semi-annual assessment groundwater sampling event between September 9, 2019 and September 13, 2019.
- Submitted a semi-annual progress report to ADEM on September 30, 2019.
- Installed seven additional on-site horizontal delineation wells located adjacent to the north and northwest property boundaries (GC-AP-MW-53H, GC-AP-MW-54H, GC-AP-MW-56H, and GN-AP-MW-57H) and the south and southwest property boundaries (GC-AP-MW-45H, GC-AP-MW-48H, and GC-AP-MW-49H) between December 5, 2019 and December 17, 2019.
- Developed all seven additional onsite horizontal delineation wells between December 10, 2019 and December 11, 2019.
- Sampled the seven additional onsite horizontal delineation wells between December 16, 2019 and December 17, 2019.
- Provided ADEM with a response on December 30, 2019 to the ADEM letter of November 14, 2019, *Responding to CCR Documents Submitted to the Department*.
- Submitted the 2019 Annual Groundwater Monitoring and Corrective Action Report to ADEM on January 31, 2020. The report identified wells that suggested additional investigation of adjacent properties was necessary to determine whether a plume of Appendix IV constituents may statistically exceed groundwater protection standards on that property.
- Submitted a semi-annual progress report to ADEM on March 30, 2020.
- Completed semi-annual assessment groundwater sampling event between April 20, 2020 and May 1, 2020.
- Installed four additional off-site horizontal delineation wells between May 12, 2020 and May 17, 2020. Horizontal delineation wells GC-AP-MW-47HO and GC-AP-MW-50HO were installed south and southwest of the property boundary. Horizontal delineation wells GC-AP-MW-59HO and GC-AP-MW-55HO were installed west and northwest of the property boundary.
- Developed and sampled off-site delineation wells, GC-AP-MW-47HO, GC-AP-MW-50HO GC-AP-MW-55HO, and GC-AP-MW-59HO between May 26, 2020 and May 28, 2020.
- Installed two additional off-site horizontal delineation wells between June 9, 2020 and June 15, 2020. Horizontal delineation wells GC-AP-MW-46HO and GC-AP-MW-52HO were installed south and west of the property boundaries respectively.

- Developed and sampled off-site delineation wells, GC-AP-MW-46HO and GC-AP-MW-52HO between June 25, 2020 and July 6, 2020. Analytical data are included in **Appendix B**.
- Submitted the 2020 Semi-Annual Groundwater Monitoring and Corrective Action Report to ADEM on July 31, 2020.
- Completed semi-annual assessment groundwater sampling event between August 10, 2020 and August 21, 2020 and submitted data in 2020 Annual Groundwater Monitoring and Corrective Action Report to ADEM on January 31, 2021.

### **Phase III – Groundwater Investigation (January 2021 – July 2021)**

Following a review of the March 2021 groundwater sampling event analytical data, it was determined that additional (Phase III) off-site delineation was necessary to further delineate the horizontal extent of groundwater impacts northwest, west, southwest, and south of the property boundary. Off-site access agreements were reached with the two of the three property owners in May 2021. Delineation wells GC-AP-MW-60HO and GC-AP-MW-61HO were installed northwest of the property boundary and GC-AP-MW-62HO, GC-AP-MW-63HO, and GC-AP-MW-64HO were installed southwest and south of the property boundary. The installation of two additional off-site delineation wells located west of the property boundary is pending an off-site access agreement with a third property owner. Phase III was conducted between June 9, 2021 and June 30, 2021. **Table 1b** and **Figure 5** present details and locations of delineation wells.

The following summarizes activities completed during Phase III of groundwater delineation at the Site:

- Submitted the 2020 Annual Groundwater Monitoring and Corrective Action Report to ADEM on January 31, 2021.
- Completed the first semi-annual assessment groundwater sampling event between March 8, 2021 and March 18, 2021.
- Installed five additional Phase III off-site horizontal delineation between June 1, 2021 and June 9, 2021. Horizontal delineation wells GC-AP-MW-60HO and GC-AP-MW-61HO were installed northwest of the property boundary and horizontal delineation wells GC-AP-MW-62HO, GC-AP-MW-63HO and GC-AP-MW-64HO were installed southwest and south of the property boundary.
- Submitted the Semi-Annual Remedy Selection and Design Progress Report on June 14, 2021.



- Completed the development and sampling of five Phase III off-site delineation wells to further characterize spatial extent of potential impacts to groundwater from the CCR Unit on June 30, 2021.

## 6.2 NATURE AND ESTIMATED QUANTITY OF RELEASE

Part B of the Order requires collecting data on the nature and estimated quantity of material released. To collect the required data, leachability testing of eight ash samples and sampling of ash pore-water at three locations was conducted. Leachability testing was conducted for EPA Resource and Recovery Act (RCRA) heavy metals, while ash pore-water was sampled for all EPA Appendix III and IV constituents. Groundwater quality data are compared to source water and leachate composition to provide a basis for evaluating the degree to which the source area has contributed constituents to groundwater.

## 6.3 DISCUSSION OF DELINEATION RESULTS

Analytical results identified concentrations above GWPS of EPA Appendix IV constituents during the first and second semi-annual monitoring events of 2023: arsenic, cobalt, and lithium from onsite horizontal delineation wells and cobalt and lithium from off-site horizontal delineation.

Arsenic concentrations above GWPS were not detected in any of the off-site horizontal delineation wells during the first or second 2023 semi-annual monitoring period. Arsenic concentrations above GWPS were detected in onsite horizontal delineation wells GC-AP-MW-39H, GC-AP-MW-43H, GC-AP-MW-53H, and GC-AP-MW-54H, during the first and second semi-annual monitoring events and GC-AP-MW-57H, during the second semi-annual monitoring event. **Figures 7A and 8A, Arsenic Isoconcentration Maps**, illustrate the horizontal extent of arsenic impacts to groundwater.

Cobalt concentrations above GWPS were detected in seven onsite horizontal delineation wells, GC-AP-PZ-4, GC-AP-MW-41H, GC-AP-MW-42H, GC-AP-MW-43H, GC-AP-MW-44H, GC-AP-MW-54H, and GC-AP-MW-57H, and one off-site horizontal delineation well, GC-AP-MW-59HO, during the first and second 2023 semi-annual monitoring events. **Figures 7B and 8B, Cobalt Isoconcentration Maps**, illustrate the horizontal extent of cobalt impacts to groundwater.

Lithium concentrations above GWPS were detected in eight onsite horizontal delineation wells, GC-AP-MW-39H, GC-AP-MW-40H, GC-AP-MW-41H, GC-AP-MW-43H, GC-AP-MW-45H, GC-AP-MW-48H, GC-AP-MW-49H, and GC-AP-MW-54H, and three off-site horizontal delineation wells, GC-AP-MW-46HO, GC-AP-MW-50HO, and GC-AP-MW-64HO, during the first and second 2023 semi-annual

monitoring events. **Figures 7C and 8C, Lithium Isoconcentration Maps**, illustrate the horizontal extent of lithium impacts to groundwater.

Wells configured specifically for vertical delineation are not required at the site, as the uppermost aquifer is confined at its base by 250 feet of low permeability chalk ( $10^{-8}$  cm/s) and the thickness of the aquifer is thin (10 to 30 feet). The Demopolis Chalk is encountered beneath the uppermost aquifer and provides a lower confining unit. Vertical hydraulic conductivity ( $K_z$ ) values obtained from two Shelby tube permeameter tests provide values of  $5.0 \times 10^{-8}$  cm/sec and  $1.4 \times 10^{-8}$  cm/sec ( $1.42 \times 10^{-4}$  ft/d to  $3.97 \times 10^{-5}$  ft/d) for Unit 3 chinks.

Isoconcentration lines shown on **Figures 7A - 7C** and **Figures 8A - 8C** are data-driven contours derived from the spatial distribution of constituent concentrations in the well network. When spatially distributed objects are correlated (i.e., objects close together with similar characteristics are compared), mathematical interpolation can be used to predict quantities between the objects. In this case, the Geostatistical Analyst tool within ArcGIS was used to interpolate constituent concentrations between well locations within the area where concentrations were above laboratory method detection limits.

In cases where concentrations decrease below the GWPS between well pairs, the extent of groundwater impacts is interpreted from the interpolated (predicted) data set. This takes into account the spatial pattern of decreasing concentrations observed in nearby wells.

The location and spacing of delineation wells are largely based on the following goals and site factors:

1. Determine if impacts to groundwater could extend off-site in the direction of groundwater flow away from the facility.
2. Evaluate potential for vertical migration adjacent to compliance wells with SSL and within the context of site hydrogeology.
3. Address key data gaps between phases, working in from property line or off-site depending on gaps.
4. Ability to safely access locations with drill rig and supporting equipment.
5. Occurrence of groundwater and sufficient groundwater yield and recharge at locations.
6. Delineate extent of impacts and capture additional hydrogeologic data necessary to evaluate the feasibility of groundwater remediation technologies.

As shown on **Table 1b**, 28 delineation wells have been installed at the site to assess potential impacts and one previously existing piezometer (GC-AP-PZ-4) was redesignated for delineation. One delineation well

(GC-AP-MW-56H) was installed but did not produce sufficient groundwater yield to sample and was abandoned (**Table 1d**).

### 6.3.1 Arsenic Delineation

As shown on **Figures 7A** and **8A**, arsenic impacts to groundwater can be divided into two spatial zones: (1) a northern zone and (2) a central zone. The northern zone encompasses wells GC-AP-MW-1, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-53H, and GC-AP-MW-54H. Arsenic is delineated onsite to the north as defined by delineation wells GC-AP-MW-44H, GC-AP-PZ-4, GC-AP-MW-34HA, and GC-AP-MW-55HO, and to the north and northeast as defined by delineation wells GC-AP-MW-35H and GC-AP-MW-36H and upgradient wells GC-AP-MW-23 and GC-AP-MW-24. Arsenic is delineated to the west by delineation well GC-AP-MW-57H, off-site delineation wells GC-AP-MW-59HO, GC-AP-MW-60HO and GC-AP-MW-61HO, and downgradient wells GC-AP-MW-31, GC-AP-MW-32, and GC-AP-MW-33.

The central zone includes three wells, GC-AP-MW-9, GC-AP-MW-10 and GC-AP-MW-43H, to the west, one well, GC-AP-MW-14, to the southeast, and four wells, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, and GC-AP-MW-39H, to the east. Compliance well GC-AP-MW-9 exhibited arsenic concentrations slightly above GWPS (0.0107 mg/L) during the May 2023 sampling event and (0.0116 mg/L) during the October/November 2023 sampling event. Arsenic concentrations were below GWPS during the three previous sampling events in October 2022, March 2022, and August 2021. Arsenic is delineated to the west as defined by delineation wells GC-AP-MW-42H, GC-AP-MW-52HO and GC-AP-MW-50HO. The installation of two additional off-site delineation wells to confirm delineation west of the property boundary is pending an access agreement with the landowner.

Arsenic is delineated to the southeast as defined by delineation wells GC-AP-MW-40H and GC-AP-MW-41H and downgradient well GC-AP-MW-15. Arsenic is delineated to the east as defined by the upgradient wells (GC-AP-MW-26 through GC-AP-MW-30) located on the other side of the barge canal as determined by the potentiometric surface contour maps (**Figures 6A** and **6B**).

### 6.3.2 Cobalt Delineation

As shown in **Figures 7B** and **8B**, cobalt concentrations display significant variations from well to well. The cobalt exceedances can be grouped into three spatial zones: northern, west central, and east and southeast. Only one off-site delineation well located northwest of the property boundary (GC-AP-MW-59HO) exhibited a concentration above GWPS. Phase III off-site delineation wells GC-AP-MW-60HO and GC-AP-MW-61HO were installed to further characterize spatial extent of potential impacts to groundwater

from the Ash Pond to the northwest. Cobalt concentrations continue to be below GWPS in delineation wells GC-AP-MW-60HO and GC-AP-MW-61HO.

The northern zone includes compliance wells GC-AP-MW-1 and GC-AP-MW-2 and delineation well GC-AP-PZ-4. Compliance wells in this area, GC-AP-MW-1, and GC-AP-MW-2, were recorded as SSL. The remaining wells with cobalt exceedances above GWPS are located to the northwest and include horizontal delineation wells GC-AP-MW-44H, GC-AP-MW-54H, and GC-AP-MW-57H and off-site delineation well GC-AP-MW-59HO.

Cobalt is delineated to the north and northeast as defined by delineation wells GC-AP-MW-35H and GC-AP-MW-36H, and upgradient wells GC-AP-MW-23 and GC-AP-MW-24. Cobalt is delineated to the north and west as defined by delineation wells GC-AP-MW-34HA, GC-AP-MW-55HO, GC-AP-MW-60HO, and GC-AP-MW-61HO, and downgradient wells GC-AP-MW-31, GC-AP-MW-32, and GC-AP-MW-33. Additional delineation wells are proposed north of compliance wells GC-AP-MW-1 and GC-AP-PZ-4 and the Black Warrior River to continue delineation to the north, pending ADEM approval.

The west central zone of cobalt exceedances includes compliance wells GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, and delineation wells GC-AP-MW-42H and GC-AP-MW-43H. The east central zone of cobalt exceedances includes compliance well GC-AP-MW-18. The southeast zone of cobalt exceedances includes compliance wells GC-AP-MW-14 and GC-AP-MW-15 and delineation well GC-AP-MW-41H. Compliance wells GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-14, and GC-AP-MW-15 have been recorded as SSL during the second 2023 semi-annual sampling event. Compliance wells GC-AP-MW-11 and GC-AP-MW-18 exhibited cobalt concentrations above the GWPS during the first 2023 semi-annual sampling event but were not recorded as SSL.

Cobalt concentrations in off-site delineation wells GC-AP-MW-52HO and GC-AP-MW-50HO to the west are below GWPS. Two additional delineation wells located to the west of the property boundary and between delineation wells GC-AP-MW-52HO and GC-AP-MW-50HO are pending access agreements with the landowner. Cobalt is delineated to the southeast as defined by delineation wells GC-AP-MW-40H and GC-AP-MW-45H. Cobalt is delineated to the east along the barge canal as defined by delineation wells GC-AP-MW-38 and the upgradient wells located other side of the barge canal as determined by potentiometric surface contour maps (**Figures 6A and 6B**).

### 6.3.3 Lithium Delineation

As shown in **Figures 7C** and **8C**, lithium concentrations exceeding the GWPS are mainly concentrated to the central and southern areas of the pond and adjacent areas. To the northwest, lithium was detected above the GWPS in two wells, GC-AP-MW-5 and GC-AP-MW-54H. Lithium is delineated to the northwest onsite by compliance wells BY-AP-MW-6 and GC-AP-MW-7, delineation wells GC-AP-MW-57H and GC-AP-MW-44H, off-site by delineation wells GC-AP-MW-59HO, GC-AP-MW-60HO and GC-AP-MW-61HO, and downgradient wells GC-AP-MW-31, GC-AP-MW-32, and GC-AP-MW-33.

To the west, lithium was detected above the GWPS in wells GC-AP-MW-10 GC-AP-MW-42H, and GC-AP-MW-43H. Lithium is delineated to the west as defined by onsite compliance wells GC-AP-MW-7, GC-AP-MW-8, and GC-AP-MW-9, and off-site delineation well GC-AP-MW-52HO. Two additional off-site delineation wells located to the west of the property boundary and delineation well GC-AP-MW-43H are pending access agreements with the landowner.

To the south and southwest, lithium was detected above the GWPS onsite in wells GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-21, GC-AP-MW-48H, and GC-AP-MW-49H. Lithium was detected above GWPS in off-site delineation wells GC-AP-MW-46HO, GC-AP-MW-50HO, and GC-AP-MW-64HO. Lithium concentrations were below GWPS in off-site delineation well GC-AP-MW-47HO for the first time during the May 2023 sampling event and remain below GWPS during the second 2023 sampling event. Lithium has been delineated to the southwest with the installation of two additional Phase III delineation wells GC-AP-MW-62HO and GC-AP-MW-63HO in June of 2021. A review of analytical data from delineation wells GC-AP-MW-62HO and GC-AP-MW-63HO indicated lithium concentrations have been non-detect during the 2021, 2022 and 2023 semi-annual sampling events. Phase III off-site delineation well GC-AP-MW-64HO was installed south of the property boundary along the Black Warrior River. Two additional off-site delineation locations are proposed to laterally delineate impacts to groundwater west and southwest and south of the Site property boundary pending property owner approval and drilling equipment access. One additional delineation location will be used to define groundwater impacts west of delineation well GC-AP-MW-50HO and one additional delineation location will be used to define groundwater impacts southeast of delineation well GC-AP-MW-47HO, between the well and the and the Black Warrior River.

To the east and southeast, lithium was detected above the GWPS onsite in compliance wells GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, and GC-AP-MW-18, and delineation wells GC-AP-MW-39H, GC-AP-MW-40H, GC-AP-MW-41H, and GC-AP-MW-45H. Delineation wells GC-AP-MW-37H, GC-AP-MW-38H, GC-AP-MW-39H, and GC-AP-MW-40H, were

installed to laterally delineate groundwater impacts to the barge canal boundary, and to the southeast GC-AP-MW-41H and GC-AP-MW-45H were installed downgradient proximal to the property boundary at the Black Warrior River. Lithium is below GWPS in delineation wells GC-AP-MW-37H and GC-AP-MW-38H along the northern end of the barge canal. Lithium exceedances extend to the southern end of the barge canal and to the southeast of the property boundary with the Black Warrior River. However, delineation has been completed to the extent feasible, as locations on the other side of the barge canal are upgradient of the Site as determined by potentiometric surface contour maps (**Figures 6A** and **6B**). Lithium concentrations in delineation wells GC-AP-MW-41H and GC-AP-MW-45H exceeded the GWPS; the assumption is that this extends in the direction of prevailing groundwater flow for assessment of corrective measures.

#### **6.4 STATUS OF DELINEATION**

A plan was executed to investigate potential impacts to groundwater at Plant Greene County. Horizontal delineation wells were installed over the course of three phases of field work. Data were collected on CCR contained in the Plant Greene County Ash Pond to characterize the nature of saturated CCR as a potential source. Vertical delineation wells were not required at the site as the Demopolis Chalk, an estimated 250-ft thick low permeability chalk ( $10^{-8}$  cm/s), is present beneath the uppermost aquifer and provides a lower confining unit.

A comprehensive groundwater delineation report summarizing findings was submitted to ADEM in September 2020. The conclusions and results presented indicated that groundwater delineation had been completed to a sufficient degree to define spatial extent of groundwater impacts and to inform a groundwater remedy selection plan. However, following a review of the March 2021 groundwater sampling event analytical data, it was determined that additional off-site delineation (Phase III) was necessary to further delineate the horizontal extent of groundwater impacts northwest, west, southwest, and south of the property boundary. Off-site access agreements were reached with two of the adjacent landowners and five additional delineation wells were installed and sampled between June 9, 2021 and June 30, 2021. An off-site access agreement with the third adjacent landowner is pending and two additional delineation wells are proposed to complete delineation to the west of the property boundary. Additional groundwater delineation was requested by ADEM in the June 2022 *Groundwater Remedy Selection Report and Corrective Action Groundwater Monitoring Program* documents review letter, and a Phase IV Additional Groundwater Delineation Well Plan for the installation of additional groundwater monitoring wells on-site and off-site of the Site was submitted to ADEM for approval on January 4, 2023.

## 6.5 GROUNDWATER REMEDY AND CORRECTIVE ACTION

An Assessment of Corrective Measures (ACM) for groundwater impacts was conducted and formally submitted to ADEM in June 2019. Additional data analyses and investigations conducted since the ACM culminated with a more detailed Groundwater Remedy Selection Report, submitted in September 2021, and a Corrective Action Groundwater Monitoring Program document submitted in December 2021.

Submittal	Submittal Date	Purpose
Assessment of Corrective Measures	06/2019	Initial evaluation of the feasibility, performance, and implementation of known and emerging groundwater remediation technologies against site conditions and factors.
Groundwater Remedy Selection Report	09/2021	Formal selection and detailed description of groundwater remedies selected for implementation at the site.
Corrective Action Groundwater Monitoring Program	12/2021	Plan document to describe process and program for implementation and monitoring of groundwater remedies selected at the site.

### 6.5.1 Groundwater Remedy Selection

The Groundwater Remedy Selection Report described the selected remedies for groundwater corrective actions at the Site:

- Source control to include dewatering, consolidation, capping of the Site, and the installation of a subsurface barrier (slurry) wall completely around the consolidated perimeter keyed into the relatively impermeable chalk aquitard.
- Geochemical manipulation by injection in areas of relatively high concentrations of constituents of interest (COI) to remove them from groundwater and immobilize them in situ.
- Monitored natural attenuation (MNA) over the entire Site.

Closure of the CCR Unit, including dewatering, consolidation, capping, and the perimeter barrier wall, will effectively eliminate source contributions to groundwater. Geochemical manipulation was selected because

of its effectiveness, ease of implementation, versatility (ability to treat more than one COI with the same treatment solution), ability to implement in areas with limited working space, and no byproducts that would require further treatment or disposal. MNA was selected because substantial evidence indicates that it is currently occurring at the Site.

### **6.5.2 Corrective Action – Groundwater Monitoring Program**

The Corrective Action Groundwater Monitoring Program describes early plans for implementation and monitoring of groundwater remedies described above. The Corrective Action Groundwater Monitoring Program will be performed at the Site in two stages.

- Stage 1 will include ongoing compliance monitoring, remedial effectiveness monitoring for geochemical manipulation (injection treatment), MNA performance monitoring, sentinel and clean-line monitoring (including surface water monitoring), and demonstration that Site conditions remain protective of potential human and ecological receptors. Prompt action will be taken should data or data trends indicate such actions are warranted.
- Stage 2 monitoring will be implemented upon Site closure, with the first 2 years of Stage 2 monitoring consisting of background data collection to serve as a baseline. Stage 2 monitoring will be composed of ongoing compliance monitoring, additional wells or sampling locations as needed to evaluate remedy effectiveness, additional MNA parameters as needed, mass and mass flux calculations, additional monitoring associated with permeation grouting (if implemented), re-evaluation of natural attenuation processes and efficacy every 10 years, and demonstration that Site conditions remain protective of potential human and ecological receptors.

#### **Stage 1**

The initial phase of Stage 1 has implementation tasks associated with each selected groundwater remedy that serve as a foundation for the remainder of Stage 1 and Stage 2:



Selected Remedy	Implementation Task(s)
Monitored Natural Attenuation	<ol style="list-style-type: none"> <li>1. Implementation of expanded MNA sampling parameters.</li> <li>2. Further assessment of MNA monitoring network.</li> </ol>
Geochemical Injection	<ol style="list-style-type: none"> <li>1. Complete laboratory treatability studies to evaluate reagent composition, dosing, effectiveness, and sequencing for in situ groundwater treatment of constituents of interest (COI) by injection. Results from the treatability studies would be incorporated into an Underground Injection Control (UIC) permit application for the Site.</li> <li>2. Implementation of geochemical injection pilot tests using data collected from the laboratory treatability studies and issuance of an UIC permit.</li> </ol>
Source Control/Closure Activities	<ol style="list-style-type: none"> <li>1. Evaluation of geochemical changes in groundwater with respect to transient closure activities such as excavation, and de-watering.</li> <li>2. Implementation of field data collection instruments and telemetry within key monitoring wells to further understand the nature of geochemical changes over time and with respect to closure activities and MNA and geochemical modelling.</li> </ol>

### **Implementation of Monitored Natural Attenuation**

MNA sampling parameters were added to the sampling plans and analyzed in the laboratory during the 2023 sampling events (**Tables 6 and 7**). These parameters, in addition to field parameters, Appendix III, and Appendix IV parameters, are used to study the processes that govern or facilitate MNA as well as changes in geochemical conditions. Parameters will be included into the site geochemical model.

### **Geochemical Injection Pilot Testing Program**

Laboratory treatability studies using Site aquifer media and impacted groundwater to evaluate reagent composition, dosing, effectiveness, and sequencing (if applicable) for in situ groundwater treatment of COI by injection has been completed. Treatability tests include the following tasks and procedures prior to field implementation of an injection treatment pilot study.

- Sampling and characterization (analysis) of aquifer soil and groundwater.
- Batch tests (screening batch tests, followed by optimization batch tests) to identify and rank reagents and reagent mixtures for removal of COI from Site groundwater.
- Selection of the two best-performing reagents for column testing to:
  - Assess COI removal effectiveness.
  - Determine COI uptake capacity of reagent-treated aquifer soil to support pilot test design.
- Confirm the selected reagents will not inadvertently increase concentrations of other Appendix III and IV constituents above the groundwater protection standard (GWPS) due to, for example, release from the aquifer matrix.
- Determine the stability of each treatment by:
  - Selective sequential extraction (SSE) of post-column-treated soil to provide information on the mechanisms and stability of COI sequestration.
  - Running Site background groundwater through treated soils in the columns to assess potential for rerelease of COI.
- Results from the treatability studies would be incorporated into an Underground Injection Control permit application to be submitted to ADEM for approval prior to field implementation of an injection treatment pilot study.

The tentative schedule for this initial foundation phase is:

- Aquifer solids (soils) and groundwater sample collection from the selected pilot test areas – first and second quarters of 2022 (completed).
- Laboratory batch and column testing, and selective sequential extraction of treated soil – third and fourth quarters of 2022 (completed).
- Underground Injection Permit application – Submitted December 2023.
- Geochemical Injection Pilot Program – TBD, pending requisite documents and approvals supporting the injection program.

To facilitate further understanding of trends and correlating relationships, AquaTROLL instrumentation is being installed at select key monitoring well locations for the near-continuous monitoring of field parameters. This additional data will allow for a better understanding of the degree of changes driven by different types of closure activities, the response of site flow systems, and possible correlations or changes noted in semi-annual monitoring data.

AquaTROLL instrumentation has been installed at the following monitoring locations:

- GC-AP-MW-1
- GC-AP-MW-10
- GC-AP-MW-11
- GC-AP-MW-14
- GC-AP-MW-17
- GC-AP-MW-39H
- GC-AP-MW-44H
- GC-AP-PZ-4

### **6.5.3 Pre-Design Investigation**

The PDI field activities for the Plant Greene County Ash Pond were conducted between December 11, 2023 and December 16, 2023. The work plan focused on well locations GC-AP-PZ-4 and GC-AP-MW-5 as the PRAs of interest for the PDI. The two locations were chosen based on accessibility considerations and

concentrations of the applicable COI: arsenic, cobalt, and/or lithium. The objective of the PDI will be to provide data specific to each PRA to enable predictive groundwater modeling and inform the design of a pilot test. Additionally, the investigation will identify data gaps in subsurface lithologic/hydrogeologic data including:

- Hydrostratigraphic data
  - Depths and thicknesses, and hydrostratigraphic heterogeneities within the overburden
- Hydraulic data within the overburden
  - Hydraulic conductivity
  - Hydraulic responses between wells
- Groundwater transport continuity between wells
  - Proof of flow path continuity between and among wells
  - Transport-relevant soil physical parameters (porosity and bulk density)
- Aquifer matrix characteristics
  - Mineralogy
  - Soil geochemical properties
- Groundwater characteristics
  - COI concentrations
  - Groundwater geochemical properties

The scope of work developed and executed for the PDI included:

- Update the hydrogeologic conceptual site model (HCSM). The HCSM will synthesize existing data into a comprehensive understanding of Site conditions and be used to evaluate data needs and answer remedial design questions.
- Water level monitoring using pressure transducers installed at select monitoring wells to monitor changes in water levels related to PDI activities (drilling, well development, and groundwater sampling).
- Advance hydraulic profiling tool (HPT) borings at each PRA to collect data to identify relatively permeable zones that may represent primary constituents of interest (COI) flow paths and less-permeable layers that may store and gradually release COI by diffusion into the more permeable zones during remediation.

- Advance direct-push drilling technology (DPT) borings for the visual characterization and logging of soils in conjunction with the HPT data to identify the presence and continuity of coarser, permeable zones and finer-grained, less-permeable zones.
- Collect groundwater screening samples from the higher-permeability zones based on the HPT results and zones with lower permeability to evaluate if COI mass is present that could hinder remediation if sequestered within these zones.

## 6.6 GROUNDWATER QUALITY CHANGES AND TRENDS

As described in **Section 4.0**, groundwater elevations west of a line from GC-AP-MW-1 through GC-AP-MW-14 have declined in response to ash pond closure activities, with greater declines shown in select wells downgradient of the installed northern section of the slurry wall. This likely indicates that groundwater conditions are beginning to show change to more natural conditions.

Important groundwater quality changes or trends are noted in **Section 6.3**. The key findings include:

- Compliance well GN-AP-MW-1 exhibited an arsenic concentration above GWPS during the second 2023 semi-annual sampling event. However, arsenic concentrations have decreased over the last seven sampling events from 0.0265 mg/l (August 17, 2020) to 0.012 mg/L (May 16, 2023) and 0.0152 mg/L (October 2023).
- Compliance well GN-AP-MW-9 exhibited an arsenic concentration slightly above GWPS during the 2023 sampling events (0.0107 mg/L May 30, 2023 and 0.0116 mg/L October 25, 2023). However, during the three previous sampling events (October 2022, March 2022, and August 2021) arsenic concentrations were well below GWPS.
- Delineation well GC-AP-MW-57H has exhibited fluctuating arsenic concentrations of below GWPS (0.0013mg/L) during the first 2023 semi-annual sampling event to 0.026 mg/L during the second semi-annual sampling event.
- There are no exceedances of arsenic concentrations above the GWPS in any of the off-site delineation well locations and only delineation well BY-AP MW-39H exhibited arsenic concentrations above GWPS along the east and southeast side of the ash pond and the barge canal during the 2023 semi-annual sampling events.
- Compliance well GN-AP-MW-2 exhibited a cobalt concentration of 0.0394 mg/L and was recorded as an SSL for the first time during the first 2023 semi-annual sampling event.
- Compliance well GC-AP-MW-11 exhibited a cobalt concentration above GWPS (0.0349 mg/L) during the second 2023 semi-annual sampling event. Statistical analysis of Appendix IV concentrations over GWPS from monitoring well GC-AP-MW-11 identified cobalt as an SSL for the first time during the second 2023 semi-annual sampling event.

- Cobalt concentrations in delineation well GC-AP-MW-37H remained below GWPS (0.0.0147 mg/L) during the May 2023 semi-annual sampling event; the well has exhibited an overall decreasing trend since January 2019.
- Delineation well GC-AP-MW-39H exhibited cobalt concentrations below GWPS for three consecutive semi-annual sampling events and has exhibited a decreasing trend since September 2019.
- Delineation well GC-AP-MW-53H exhibited cobalt concentrations below GWPS for four consecutive semi-annual sampling events and has exhibited a decreasing trend since December 2019.
- Lithium concentrations in compliance well BY-AP-MW-6 remained below the GWPS during the 2023 sampling events since exceeding GWPS in April 2020. Historically, lithium concentrations in GC-AP-MW-6 have been below GWPS, only exceeding GWPS in 3 of 19 sampling events.
- Compliance well GN-AP-MW-9 exhibited lithium concentrations below GWPS during the last four sampling events as part of a downward trend that began in September 2019.
- Lithium concentrations exceeding GWPS are concentrated to the south, southeast, and southwest sides of the ash pond with only two wells (GC-AP-MW-5 and GC-AP-MW-54H) that are above GWPS north of the ash pond.

Groundwater quality changes and trends are related to closure construction activities and will continue to be observed throughout the closure process. Many of the trends appear to be associated with ash pond closure activities - halt of sluicing, ash dewatering, and installation of the northern section of the slurry wall. Trends and groundwater quality changes will continue to be monitored throughout closure to evaluate assessment needs and to better inform groundwater remedy plans.

## 7.0 SUMMARY AND CONCLUSIONS

Semi-annual monitoring events were conducted in May and October to November 2023. Statistical evaluations of the monitoring data identified SSL of Appendix IV constituents above the GWPS. To address previously identified SSL, a Groundwater Remedy Selection Report was prepared and submitted to ADEM on September 30, 2021. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on December 29, 2021, for review.

The Corrective Action Groundwater Monitoring Program was prepared to detect potential downgradient changes in groundwater quality and assess the efficacy of the selected groundwater corrective action remedies. The Monitoring Program will supplement the ongoing CCR compliance groundwater monitoring currently being performed at the Site.

The following future actions will be taken or are recommended for the site:

- Complete the installation, development, and sampling of the Phase IV additional groundwater wells onsite and off-site pending ADEM approval and off-site property owners access agreements.
- Evaluate PDI data to update the HCSM with input parameters for predictive numeric modeling and to identify continuous zones of higher transmissivity, supporting the design of the pilot test well network that will target the zones of impacted Site groundwater.
- Install monitoring wells at each PRA for the collection of groundwater samples to establish baseline (pre-pilot test) concentrations of COI, provide monitor locations for potential tracer testing, and monitor pilot testing performance.
- Conduct the first semi-annual monitoring event scheduled for May 2024 and submit the first semi-annual groundwater monitoring and corrective action report summarizing the findings to ADEM by July 31, 2024.



## 8.0 REFERENCES

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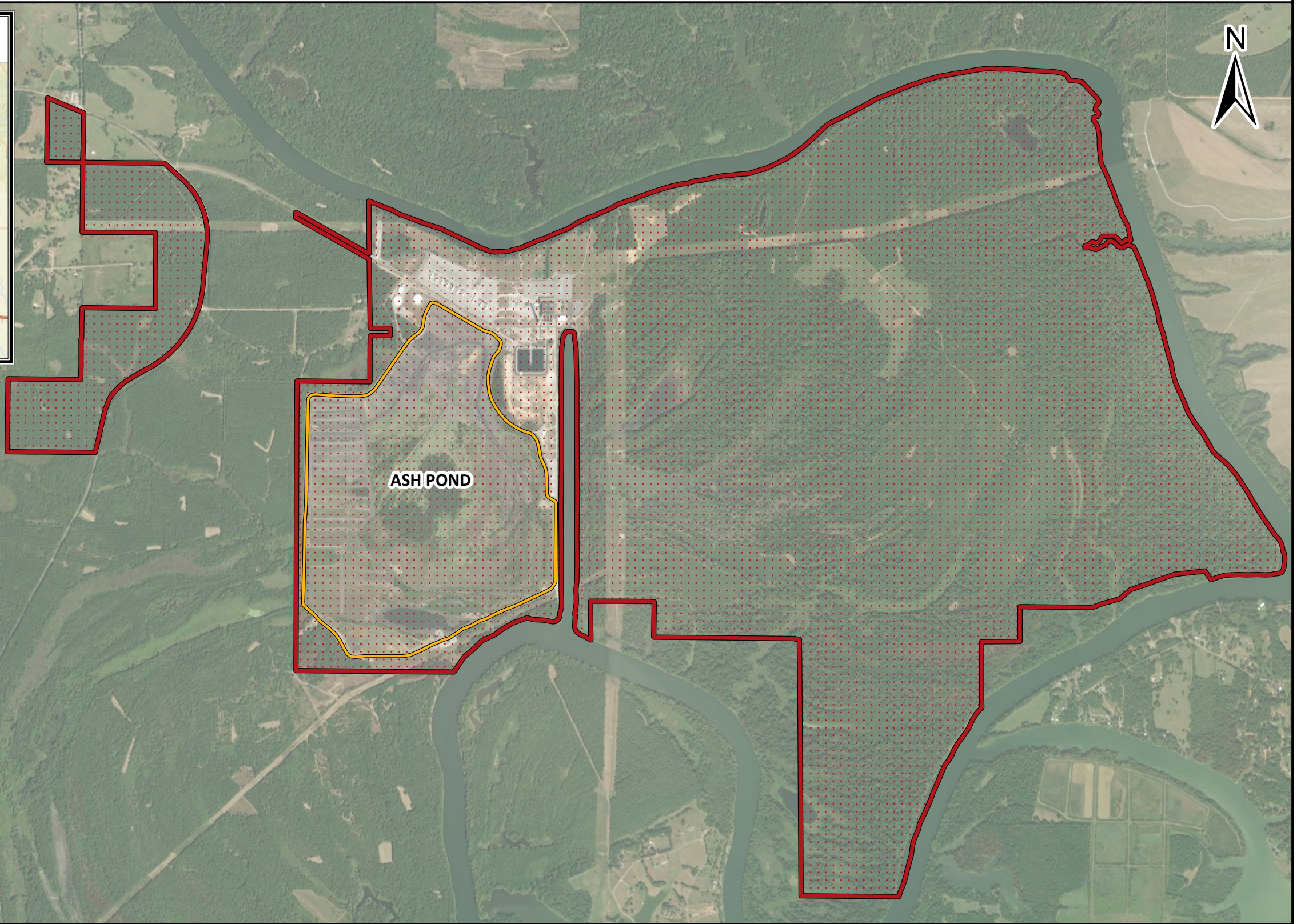
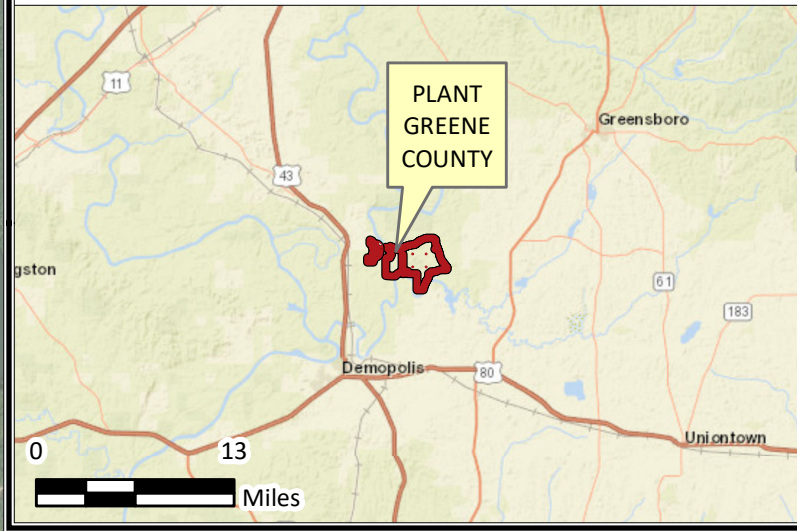
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U.S. Environmental Protection Agency (EPA), 2004, Evaluation of Sampling and Field-Filtration Methods for the Analysis of Trace Metals In Groundwater Project Summary, EPA/600/SR-94/119.

# Figures

# OVERVIEW MAP



- LEGEND**
-  Ash Pond Boundary
  -  Property Boundary (Approximate)



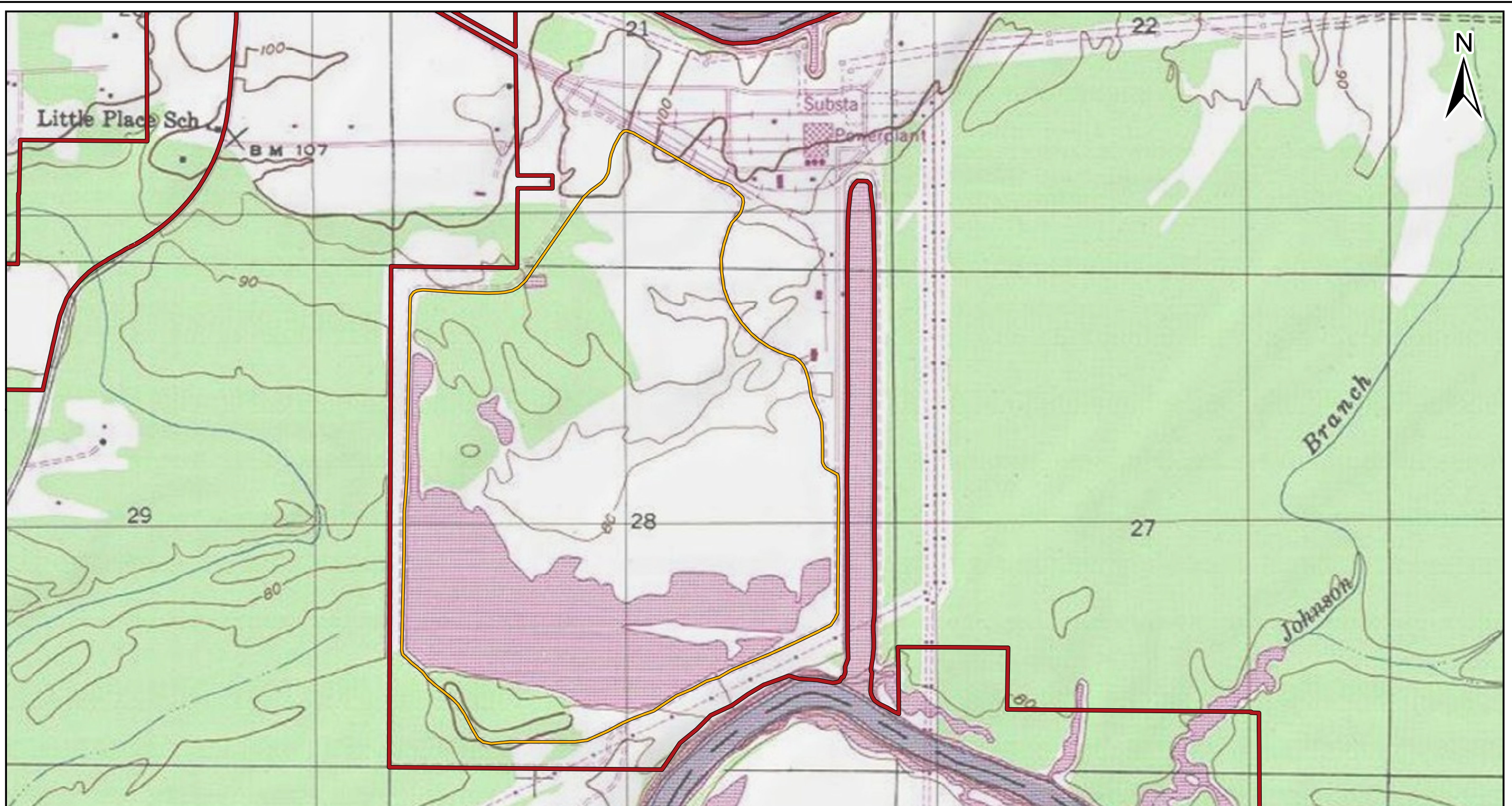
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 Base Map: Maxar Vivid Advanced, 10/4/2019

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DATE	10/18/2023
DRAWN BY	KWR
CHECKED BY	GFB

DRAWING TITLE:  
**SITE LOCATION MAP  
 PLANT GREENE COUNTY ASH POND**

FIGURE NO.  
**FIGURE 1**





**LEGEND**

- Property Boundary (Approximate)
- Ash Pond Boundary



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet  
 Base Map: Demopolis, Alabama 1936 (Photorevised 1979)  
 7.5' U.S. Geological Survey Topographic Quadrangle

SCALE 1:12,000

DATE 1/23/2023

DRAWN BY KWR

CHECKED BY GFB

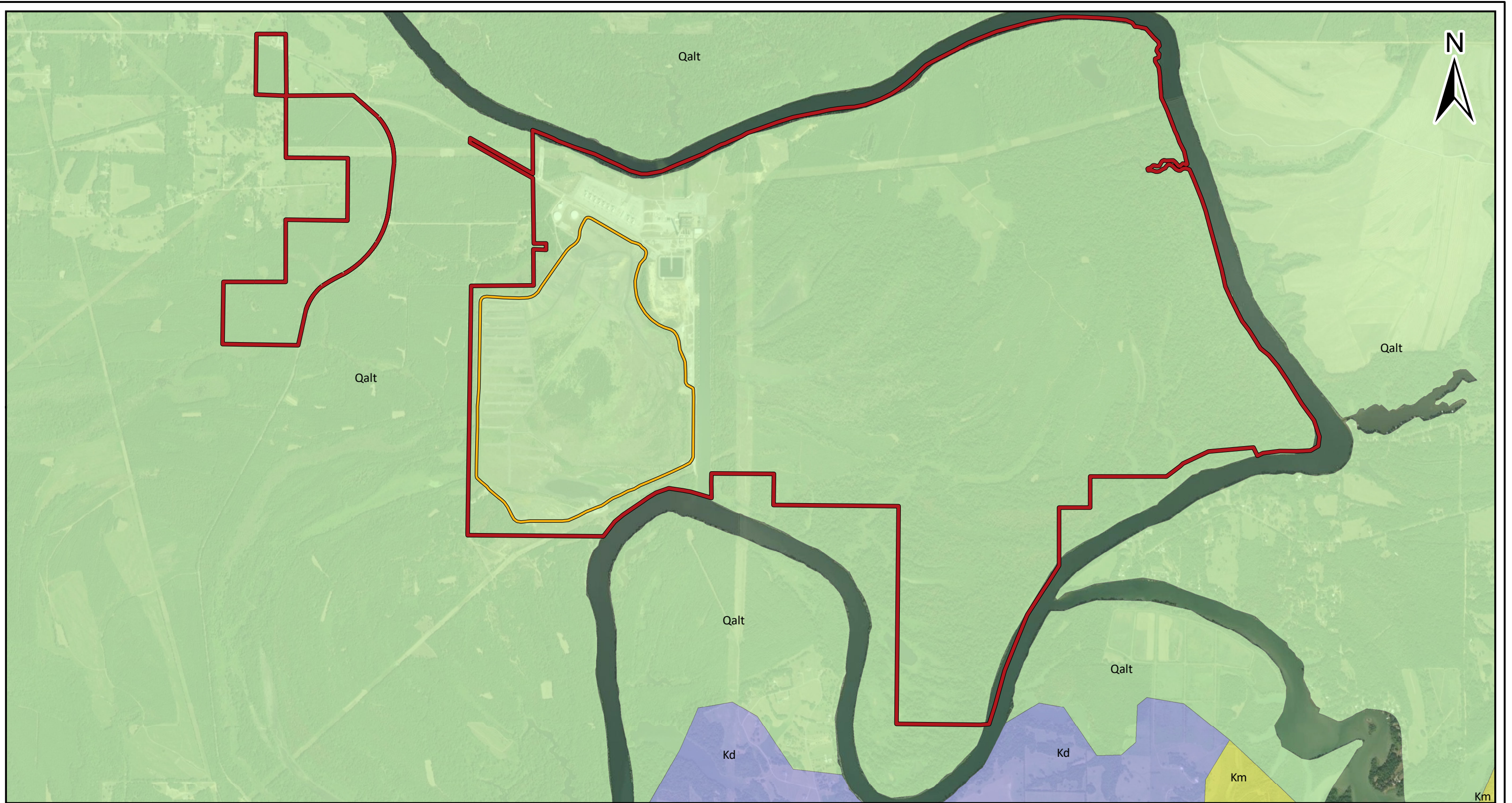
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**SITE TOPOGRAPHIC MAP  
 PLANT GREENE COUNTY ASH POND**

FIGURE NO.


**FIGURE 2**







**LEGEND**

 Ash Pond Boundary

 Property Boundary (Approximate)

**Geologic Units**

 Alluvial, coastal, and low terrace deposits (Qalt)

 Demopolis Chalk (Kd)

 Mooreville Chalk (Km)



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet  
Base Map: Maxar Vivid Advanced, 10/4/2019

SCALE 1:24,000

DATE 1/23/2023

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CHECKED BY AWH

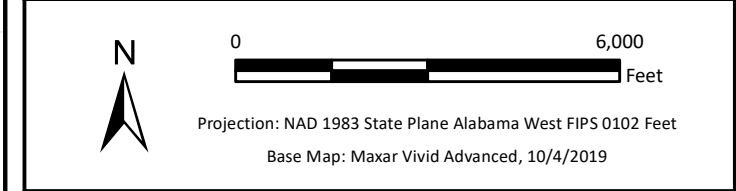
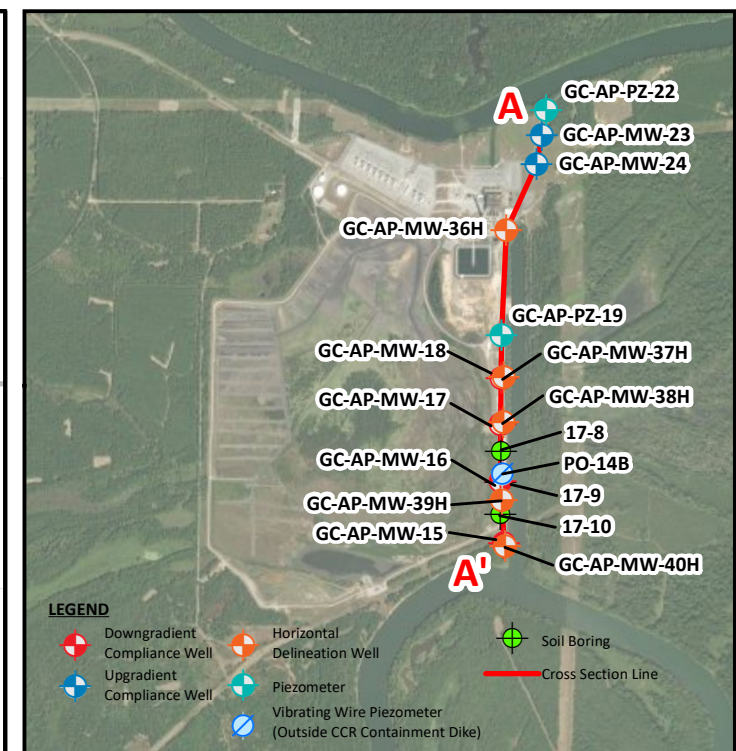
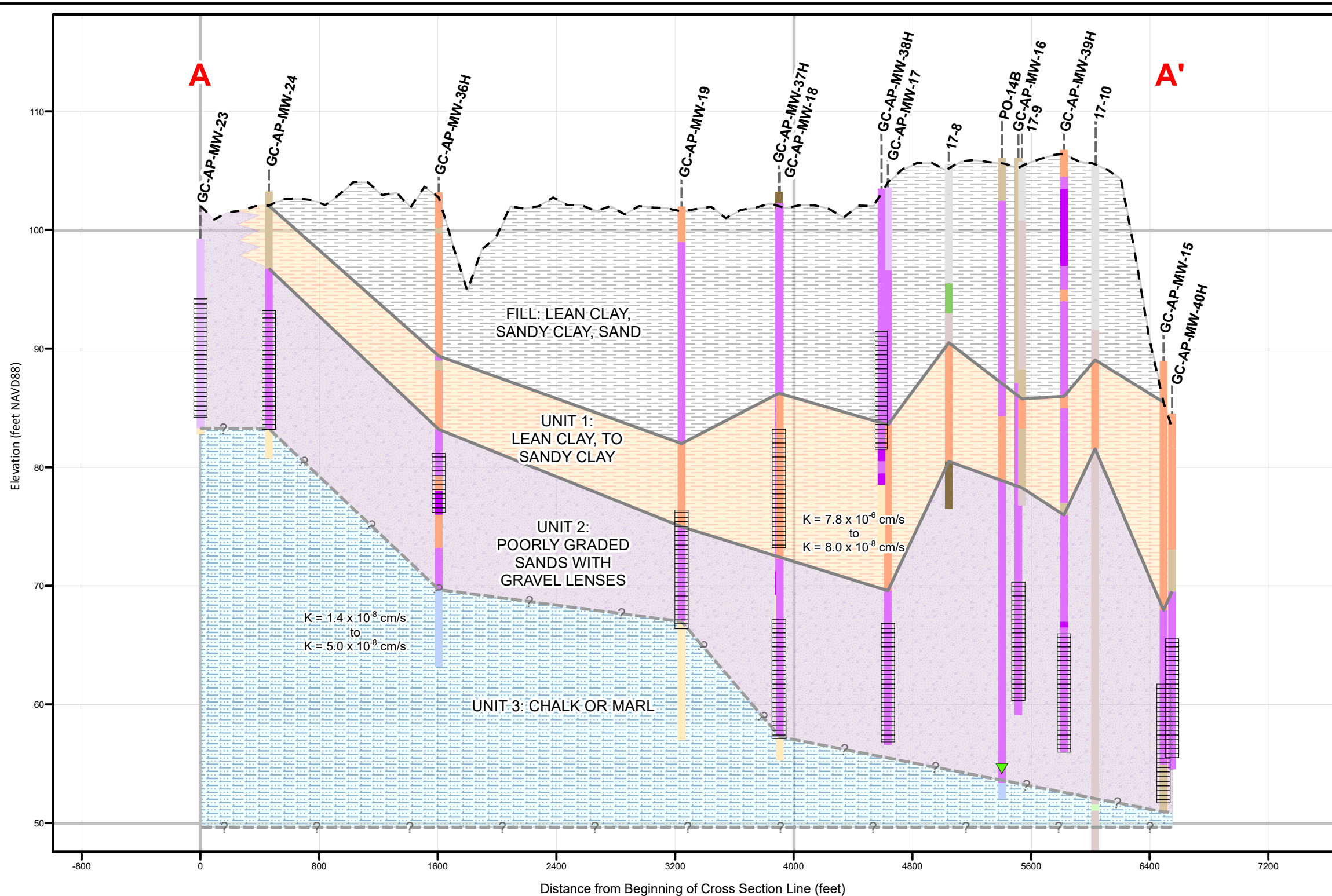
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**SITE GEOLOGIC MAP  
PLANT GREENE COUNTY ASH POND**

FIGURE NO.

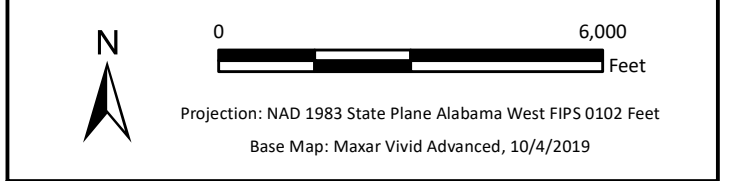
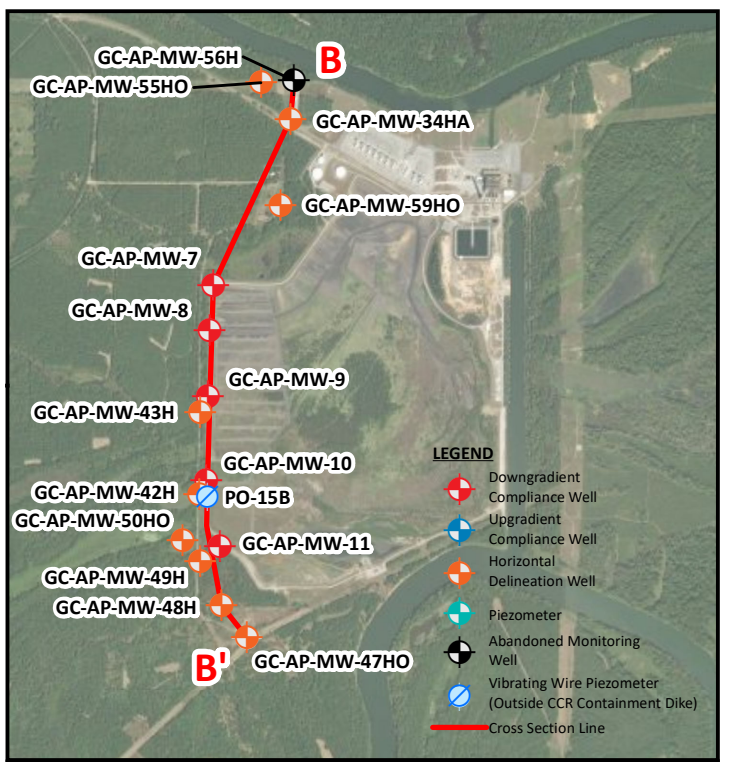
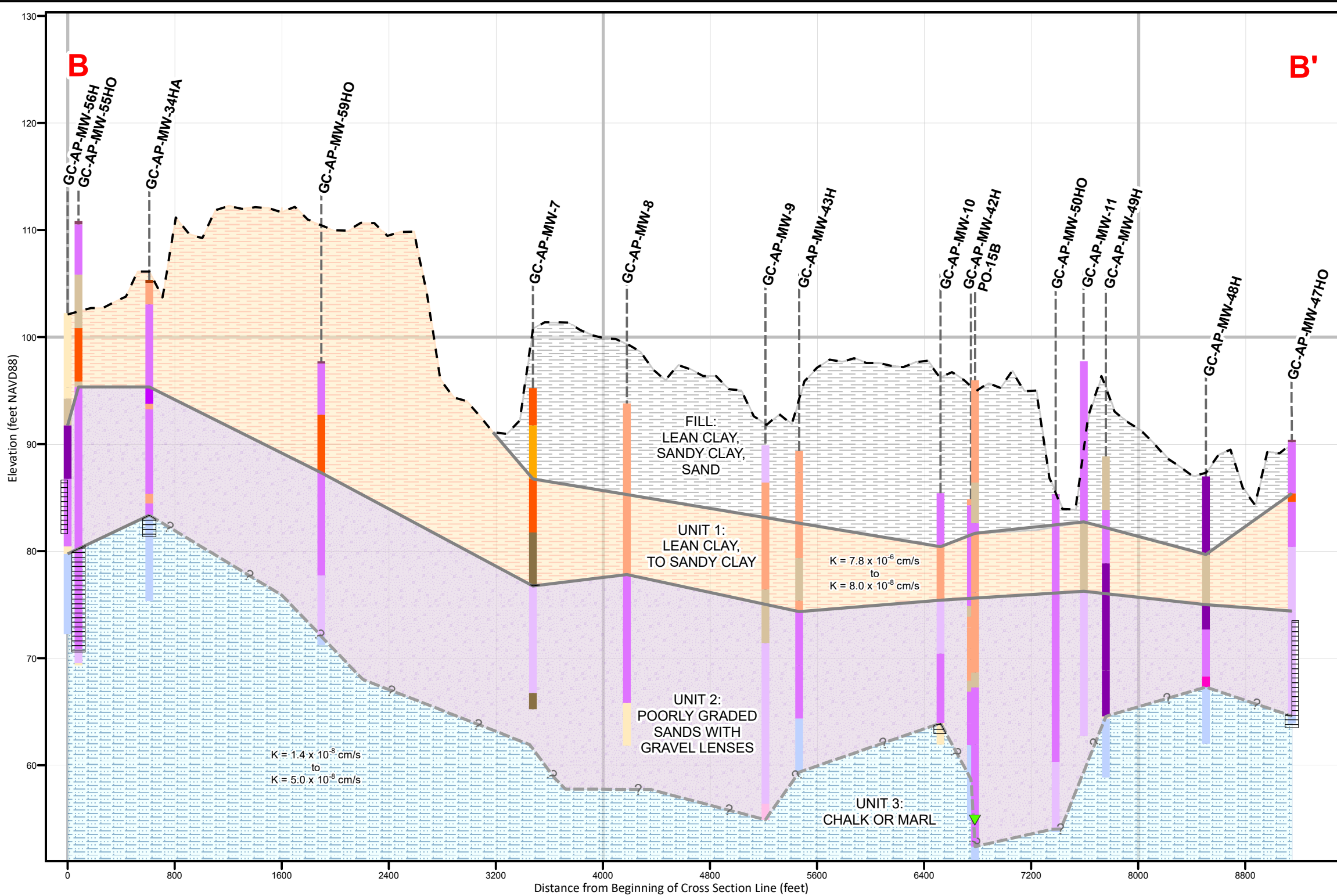
**FIGURE 3**





- Notes:
1. Source of ground surface elevation data: June 2020 Lidar and 2019 USGS 3DEP.
  2. NAVD88 indicates North American Vertical Datum of 1988.
  3. K = Hydraulic Conductivity.
  4. Vertical exaggeration = 80.
  5. Soil borings 17-8, 17-9, and 17-10 are utilized for soil characterization and were drilled on July 18, 2017 (17-10) and July 20, 2017 (17-8 and 17-9).
  6. Boring data from Vibrating Wire Piezometer (VWP) PO-14B were recorded on May 21, 2020, and the VWP was installed on September 24, 2020.

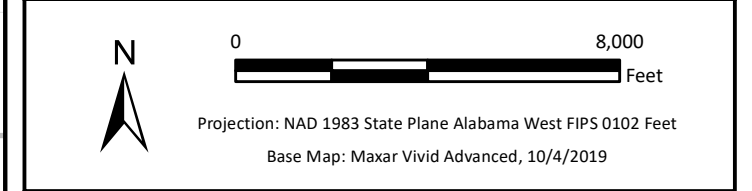
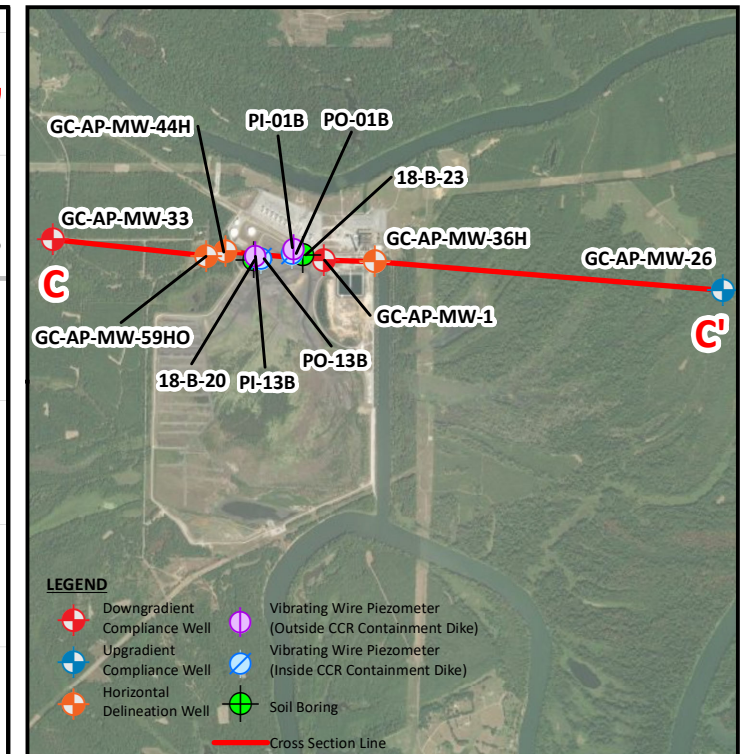
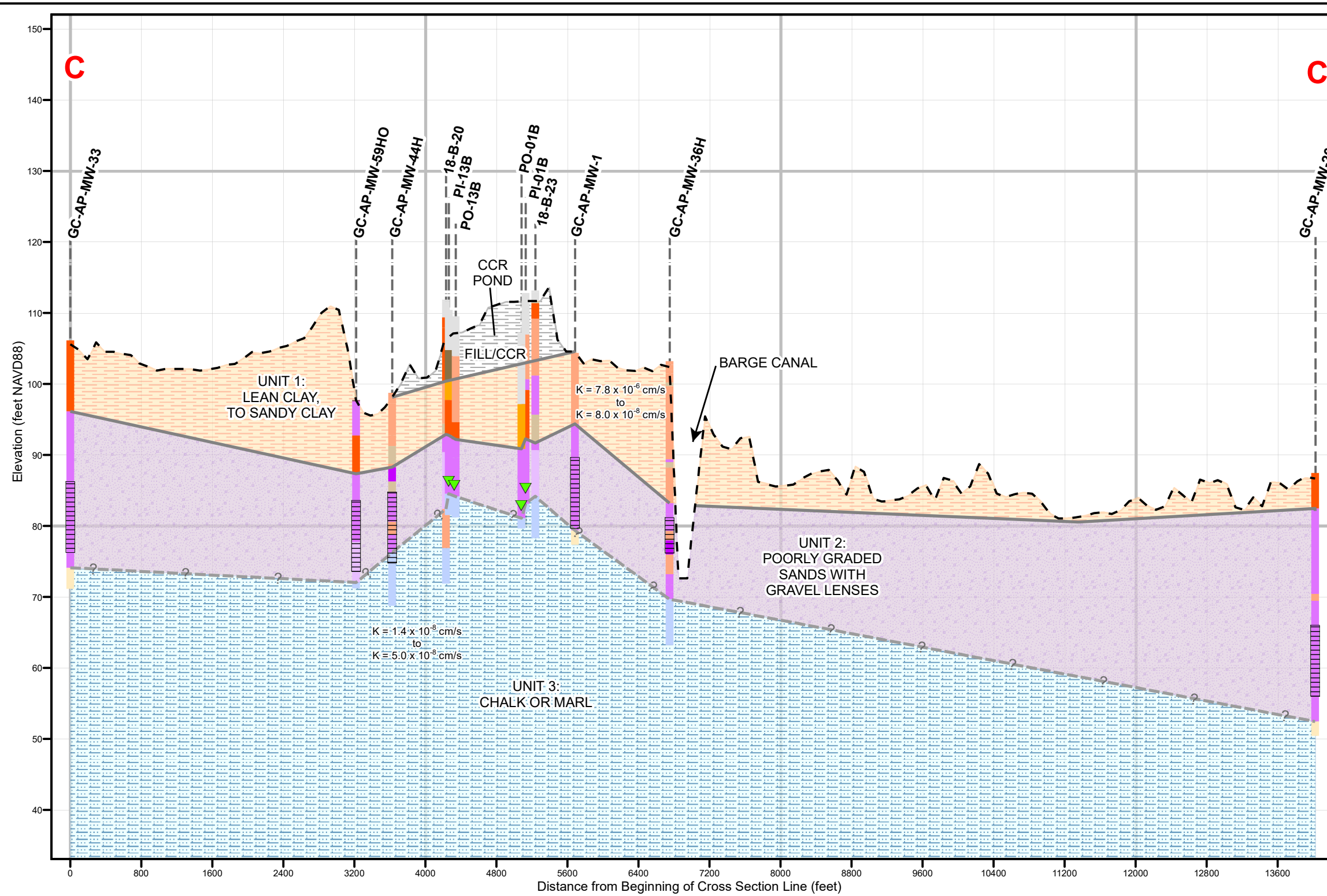
<b>LEGEND</b> Well Location Ground Surface Elevation Screen Interval Vibrating Wire Piezometer Tip Elevation	<b>Borehole Description</b> Unit Boundary (inferred) Unit Boundary Fill Fat Clay Lean Clay Silt Sandy Silt Clayey Sand Silty Sand Sand Well-graded Sand Poorly-graded Sand with Clay Chalk	<b>Geologic Units</b> Fill: Lean Clay, Sandy Clay, Sand Unit 1: Lean Clay to Sandy Clay Unit 2: Poorly Graded Sands with Gravel Lenses Unit 3: Chalk or Marl	SCALE As Shown	DRAWING TITLE <b>GEOLOGIC CROSS SECTION A - A'          PLANT GREENE COUNTY ASH POND</b>		
			DATE 1/23/2024	FIGURE NO. <b>FIGURE 4A</b>		Southern Company
			DRAWN BY KWR			
			CHECKED BY GFB			



- Notes:
1. Source of ground surface elevation data: June 2020 Lidar and 2019 USGS 3DEP.
  2. NAVD88 indicates North American Vertical Datum of 1988.
  3. The ground surface shown on the cross section was derived from a digital elevation model raster along the cross section line drawn as shown in the inset map. In addition to boring data from wells located directly on the cross section line, boring data from wells location near but not directly on the cross section line were also utilized for lithologic correlation. These well's boring data are projected onto the cross section line, and, as such, the ground surface shown on the cross section is higher in elevation than what the ground surface actually is at those locations.
  4. K = Hydraulic Conductivity.
  5. MW-56H was abandoned on May 16, 2020.
  6. Vertical exaggeration = 80.
  7. Boring data from Vibrating Wire Piezometer (VWP) PO-15B were recorded on May 20, 2020, and the VWP was installed on September 25, 2020

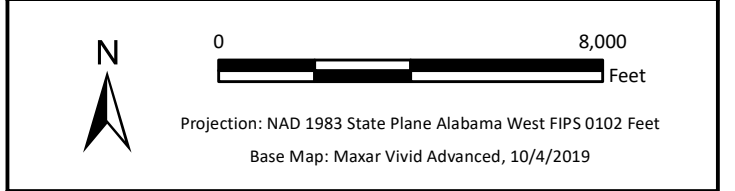
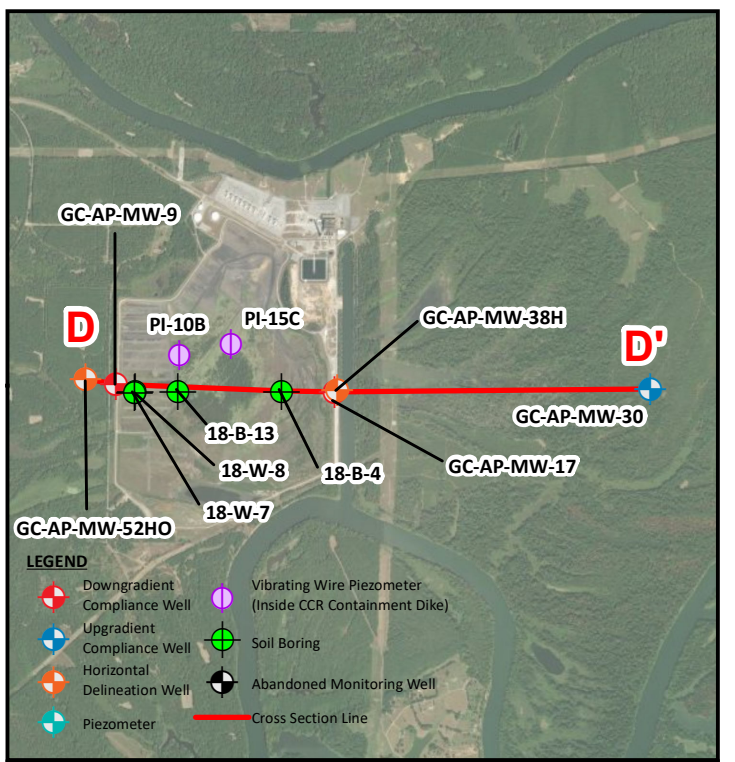
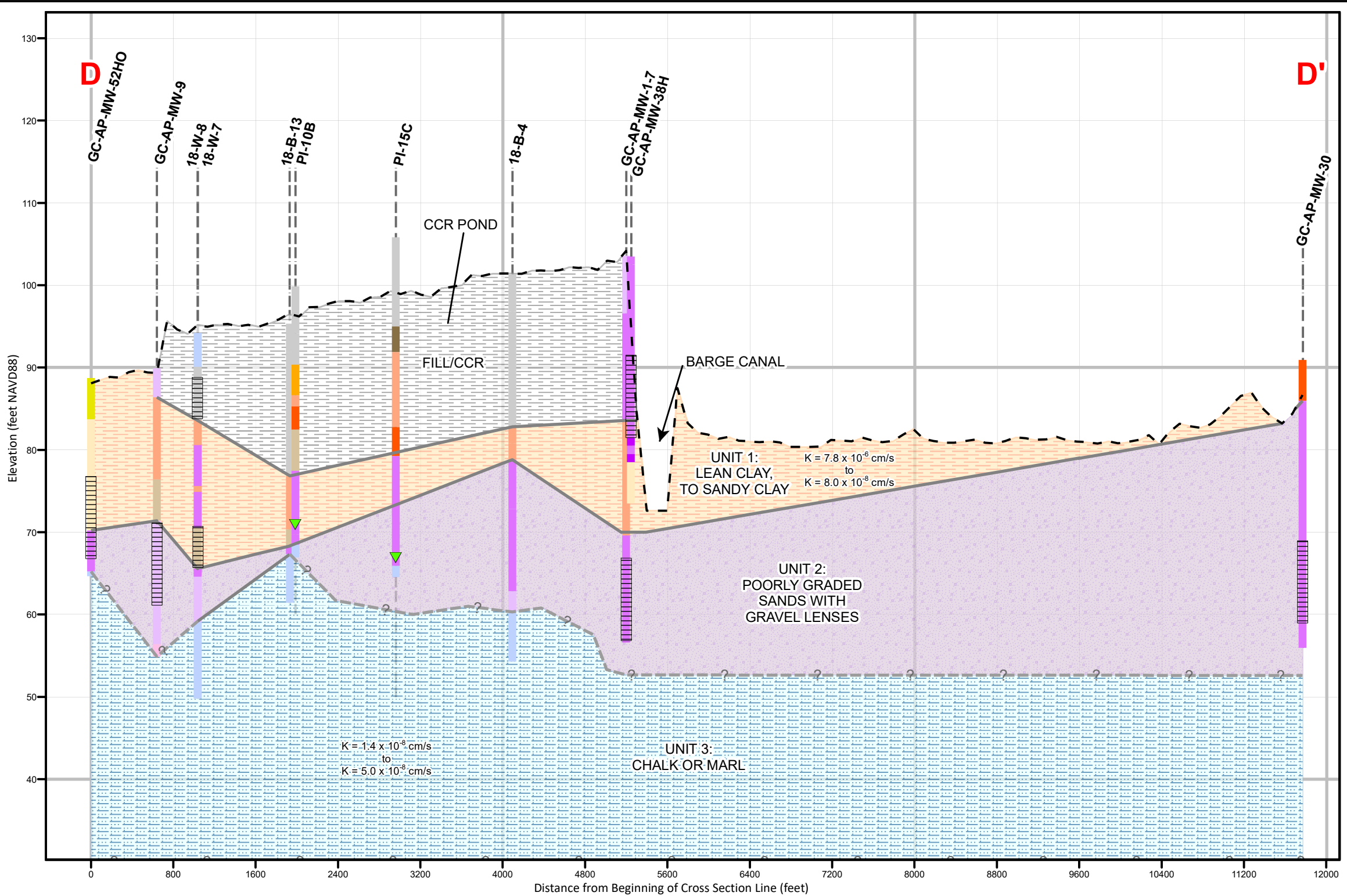
LEGEND		Borehole Description		Geologic Units		SCALE	DRAWING TITLE	
	Well Location		Unit Boundary (Inferred)		Topsoil	As Shown	<b>GEOLOGIC CROSS SECTION B - B'</b> <b>PLANT GREENE COUNTY ASH POND</b>	
	Ground Surface Elevation		Unit Boundary		Fat Clay	DATE		
	Screen Interval		Lean Clay		Unit 1: Lean Clay to Sandy Clay	DRAWN BY	KWR	FIGURE NO. <b>FIGURE 4B</b>
	Vibrating Wire Piezometer Tip Elevation		Silty Clay		Unit 2: Poorly Graded Sands with Gravel Lenses	CHECKED BY	GFB	
			Sandy Lean Clay		Unit 3: Chalk or Marl			
			Sandy Silt					
			Clayey Sand					
			Silty Sand					
			Well-graded Sand					
			Poorly-graded Sand					
			Poorly-graded Sand with Clay					
			Poorly-graded Sand with Silt					
			Well-graded Gravel					
			Poorly-graded Gravel					
			Chalk					
			Fill: Lean Clay, Sandy Clay, Sand					





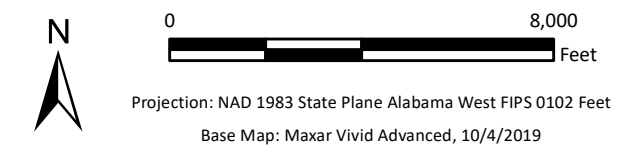
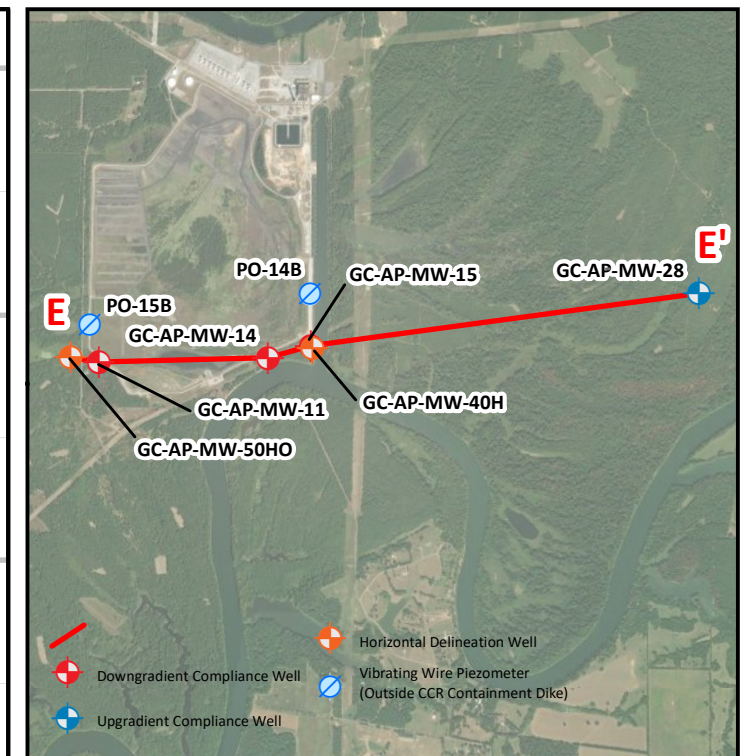
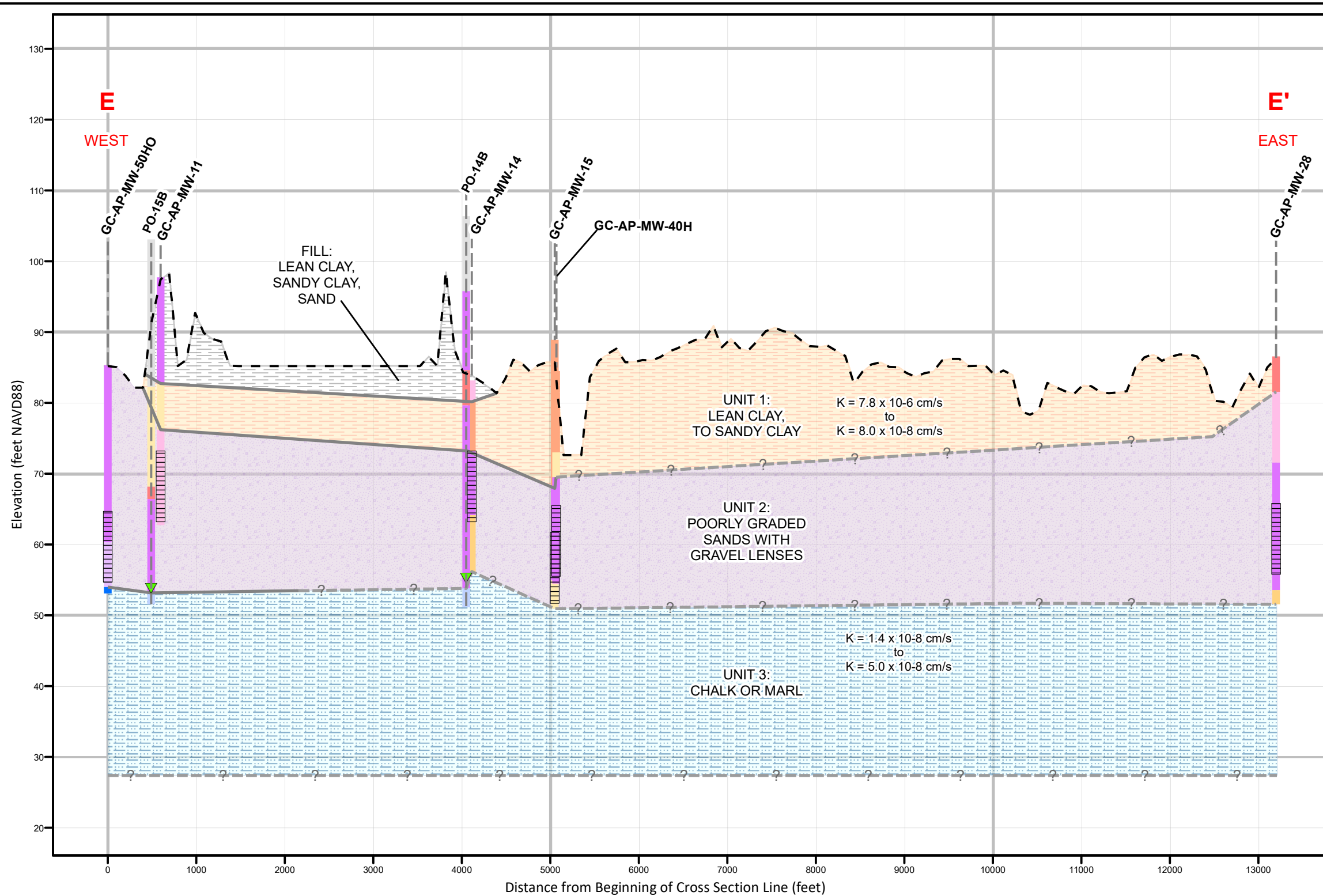
- Notes:
1. Source of ground surface elevation data: June 2020 Lidar and 2019 USGS 3DEP.
  2. NAVD88 indicates North American Vertical Datum of 1988.
  3. The ground surface shown on the cross section was derived from a digital elevation model raster along the cross section line drawn as shown in the inset map. In addition to boring data from wells located directly on the cross section line, boring data from wells location near but not directly on the cross section line were also utilized for lithologic correlation. These well's boring data are projected onto the cross section line, and, as such, the ground surface shown on the cross section is higher in elevation than what the ground surface actually is at those locations.
  4. K = Hydraulic Conductivity.
  5. Vertical exaggeration = 80.
  6. Boring data from Vibrating Wire Piezometers (VWP) PO-01B, PI-01B, PO-13B, and PI-13B were recorded on May 19 and 21, 2020, and the VWPs were installed between September 22 and October 1, 2020.

LEGEND			SCALE	DRAWING TITLE	
Well Location	Fill	Sandy Silt	As Shown	<b>GEOLOGIC CROSS SECTION C - C'</b> <b>PLANT GREENE COUNTY ASH POND</b>	
Ground Elevation	Topsoil	Clayey Sand	DATE		
Screen Interval	Fat Clay	Silty Sand	DRAWN BY	KWR	FIGURE NO. <b>FIGURE 4C</b>
Vibrating Wire Piezometer Tip Elevation	Lean Clay	Well-graded Sand	CHECKED BY	GFB	
Unit Boundary (Inferred)	Silty Clay	Poorly-graded Sand			
Unit Boundary	Sandy Lean Clay	Chalk			



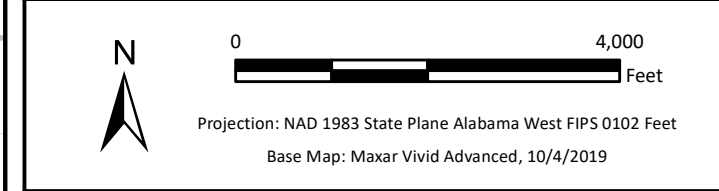
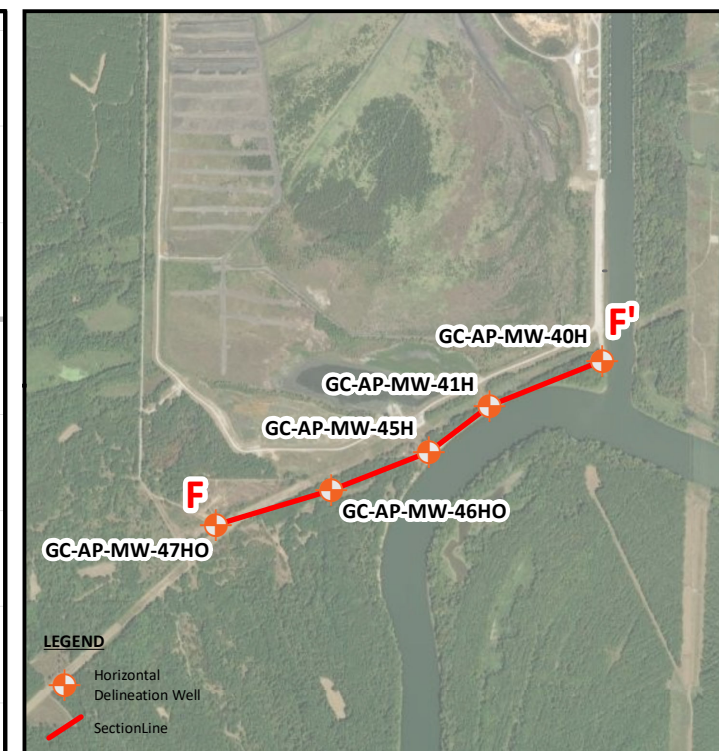
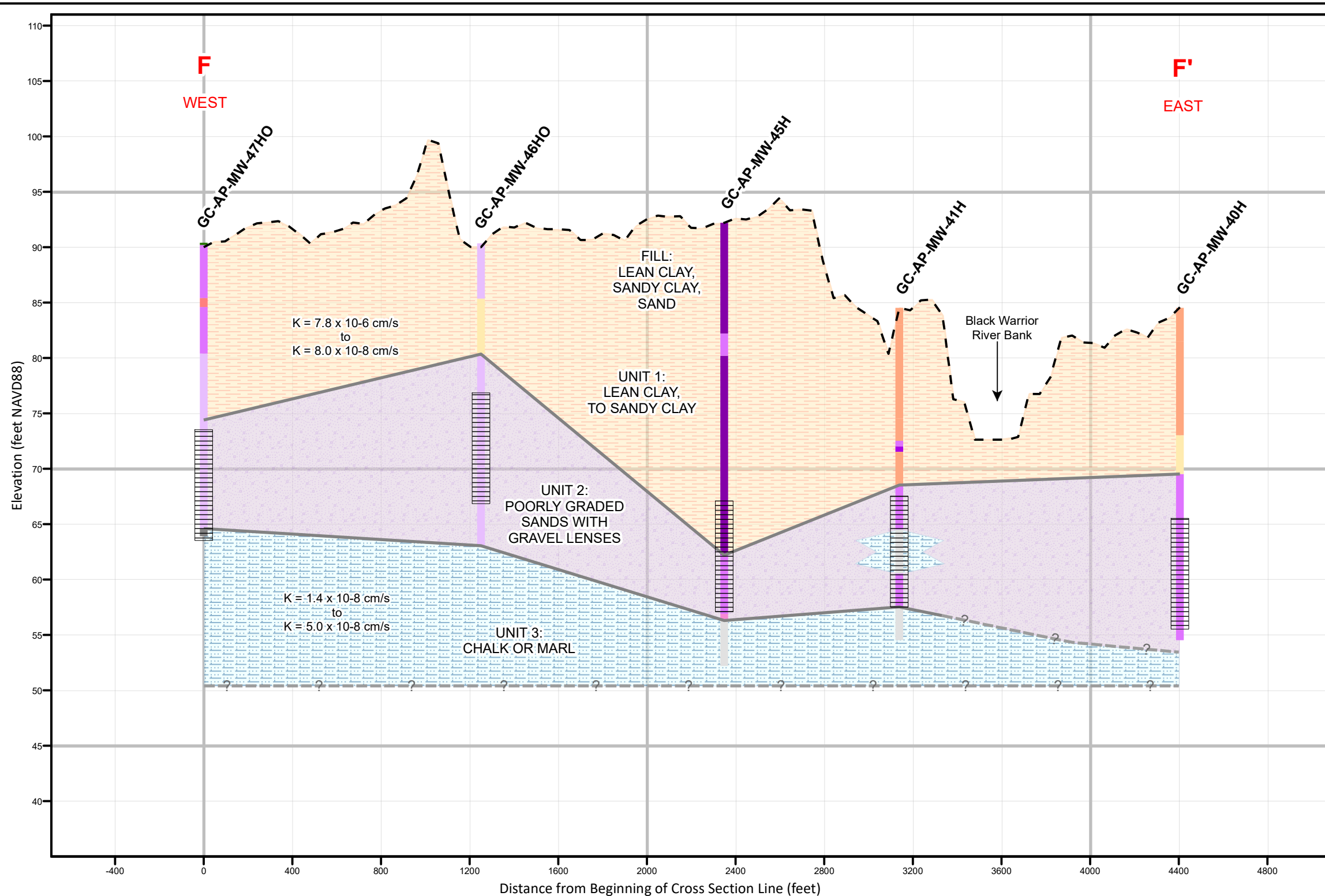
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  - NAVD88 indicates North American Vertical Datum of 1988.
  - The ground surface shown on the cross section is derived from a digital elevation model raster along the cross section line drawn as shown in the inset map. In addition to boring data from wells located directly on the cross section line, boring data from wells location near but not directly on the cross section line were also utilized for lithologic correlation. These well's boring data are projected onto the cross section line, and, as such, the ground surface shown on the cross section is higher in elevation than what the ground surface actually is at those locations.
  - K = Hydraulic Conductivity.
  - Vertical exaggeration = 80.
  - Boring data from Vibrating Wire Piezometers (VWP) PI-10B and PI-15C were recorded on May 20 and May 14, 2020, respectively, and the VWPs were installed on September 24 and July 31, 2020, respectively.

<b>LEGEND</b> Well Location Ground Elevation Screen Interval Vibrating Wire Piezometer Tip Elevation Unit Boundary (Inferred) Unit Boundary	<b>Borehole Description</b> Auger CCR Fill Topsoil Fat Clay Lean Clay Silty Clay Sandy Silt Clayey Silt Clayey Sand Silty Sand Well-graded Sand Poorly-graded Sand			<b>Geologic Units</b> Fill/CCR Unit 1: Lean Clay to Sandy Clay Unit 2: Poorly-Graded Sands with Gravel Lenses Unit 3: Chalk or Marl Poorly-graded Sand with Clay Poorly-graded Sand with Silt Well-graded Gravel Poorly-graded Gravel Chalk			SCALE As Shown	DRAWING TITLE <b>GEOLOGIC CROSS SECTION D - D' PLANT GREENE COUNTY ASH POND</b>	
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				DRAWN BY KWR	FIGURE NO. <b>FIGURE 4D</b>				
				CHECKED BY GFB	Southern Company				



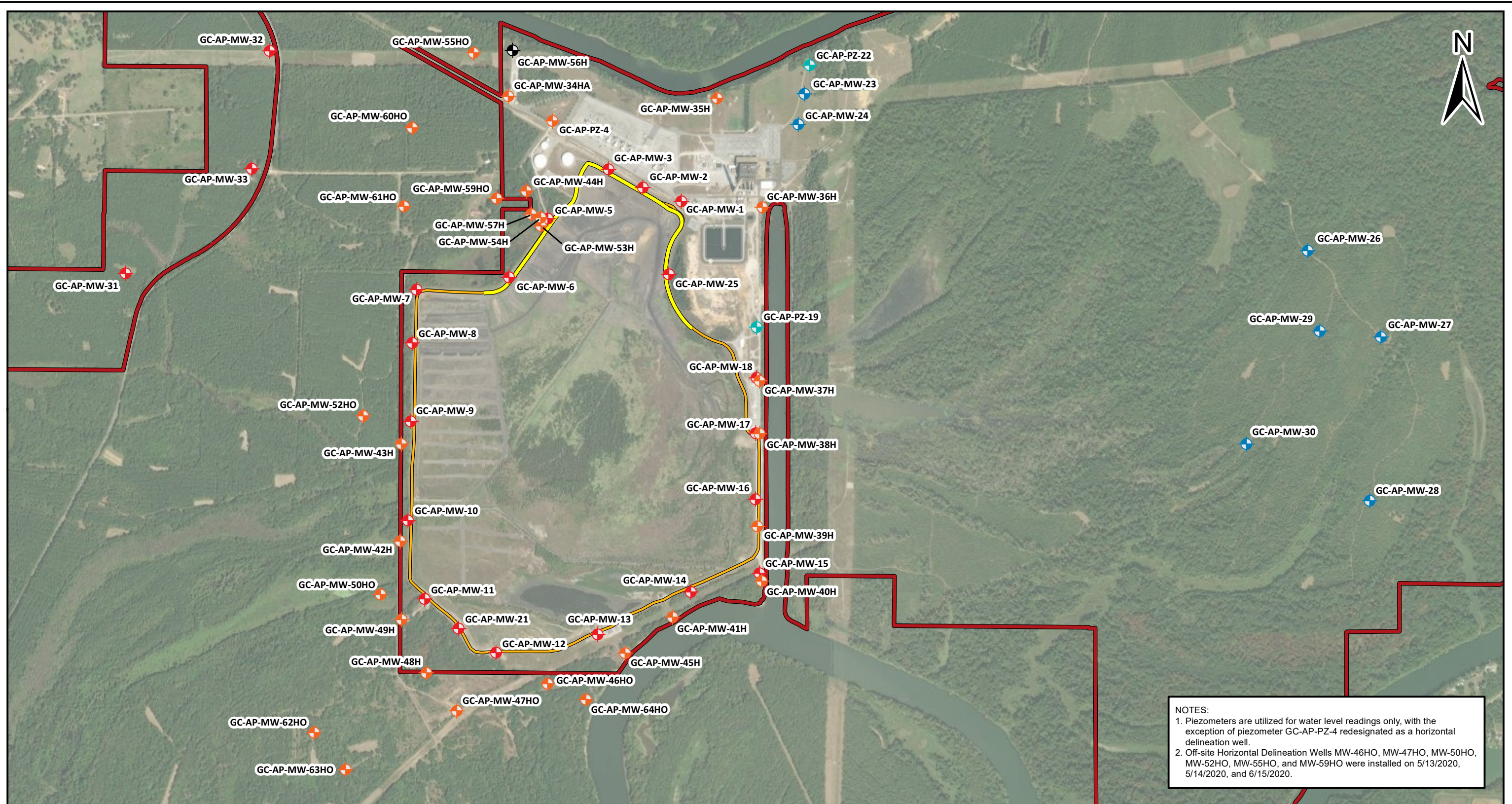
- Notes:
1. Source of ground surface elevation data: 2020 Lidar and 2019 USGS 3DEP.
  2. NAVD88 indicates North American Vertical Datum of 1988.
  3. The ground surface shown on the cross section was derived from a digital elevation model raster along the cross section line drawn as shown in the inset map. In addition to boring data from wells located directly on the cross section line, boring data from wells location near but not directly on the cross section line were also utilized for lithologic correlation. These well's boring data are projected onto the cross section line, and, as such, the ground surface shown on the cross section is higher in elevation than what the ground surface actually is at those locations.
  4. Vertical exaggeration = 80.
  5.  $K$  = Hydraulic Conductivity.
  6. Boring data from Vibrating Wire Piezometers (VWP) PO-14B and PO-15B were recorded on May 21 and May 20, 2020, respectively, and the VWPs were installed on September 24 and September 25, 2021, respectively.

LEGEND			SCALE	DRAWING TITLE	
<ul style="list-style-type: none"> <li>Well Location</li> <li>Ground Surface Elevation</li> <li>Screen Interval</li> <li>Vibrating Wire Piezometer Tip Elevation</li> <li>Unit Boundary (Inferred)</li> <li>Unit Boundary</li> </ul>	<b>Borehole Description</b> <ul style="list-style-type: none"> <li>Fill</li> <li>Top Soil</li> <li>Poorly Graded Sand</li> <li>Well Graded Sand</li> <li>Poorly Graded Sand with Clay</li> <li>Poorly Graded Sand with Silt</li> <li>Well graded sand</li> </ul>	<b>Geologic Units</b> <ul style="list-style-type: none"> <li>Fill: Lean Clay, Sandy Clay, Sand</li> <li>Unit 1: Lean Clay to Sandy Clay</li> <li>Unit 2: Poorly Graded Sands with Gravel Lenses</li> <li>Unit 3: Chalk or Marl</li> </ul>	As Shown	<b>GEOLOGIC CROSS SECTION E - E'</b> <b>PLANT GREENE COUNTY ASH POND</b>	
			DATE		
			DRAWN BY	KWR	FIGURE NO. <b>FIGURE 4E</b>
			CHECKED BY	GFB	



- Notes:
1. Source of ground surface elevation data: 2020 Lidar and 2019 USGS 3DEP.
  2. NAVD88 indicates North American Vertical Datum of 1988
  3. Vertical exaggeration = 50.
  4. K = Hydraulic Conductivity.

LEGEND		Borehole Description		Geologic Units		SCALE	DRAWING TITLE	
	Ground Surface Elevation		Top Soil		Fill: Lean Clay, Sandy Clay, Sand	As Shown	<b>GEOLOGIC CROSS SECTION F - F'</b> <b>PLANT GREENE COUNTY ASH POND</b>	
	Screen Interval		Poorly Graded Sand		Unit 1: Lean Clay to Sandy Clay	DATE		
	Unit Boundary (Inferred)		Well Graded Sand		Unit 2: Poorly Graded Sands with Gravel Lenses	DRAWN BY	KWR	FIGURE NO. <b>FIGURE 4F</b>
	Unit Boundary		Poorly Graded Sand with Clay		Unit 3: Chalk or Marl	CHECKED BY	GFB	
			Poorly Graded Sand with Silt					
			Well graded sand					
			Poorly-graded Gravel					
			Fat Clay					
			Lean Clay					
			Clayey Sand					
			Sandy Lean Clay					
			Chalk with Traces of Fat Clay					
			Chalk					



NOTES:  
 1. Piezometers are utilized for water level readings only, with the exception of piezometer GC-AP-PZ-4 redesignated as a horizontal delineation well.  
 2. Off-site Horizontal Delineation Wells MW-46HO, MW-47HO, MW-50HO, MW-52HO, MW-55HO, and MW-59HO were installed on 5/13/2020, 5/14/2020, and 6/15/2020.

**LEGEND**

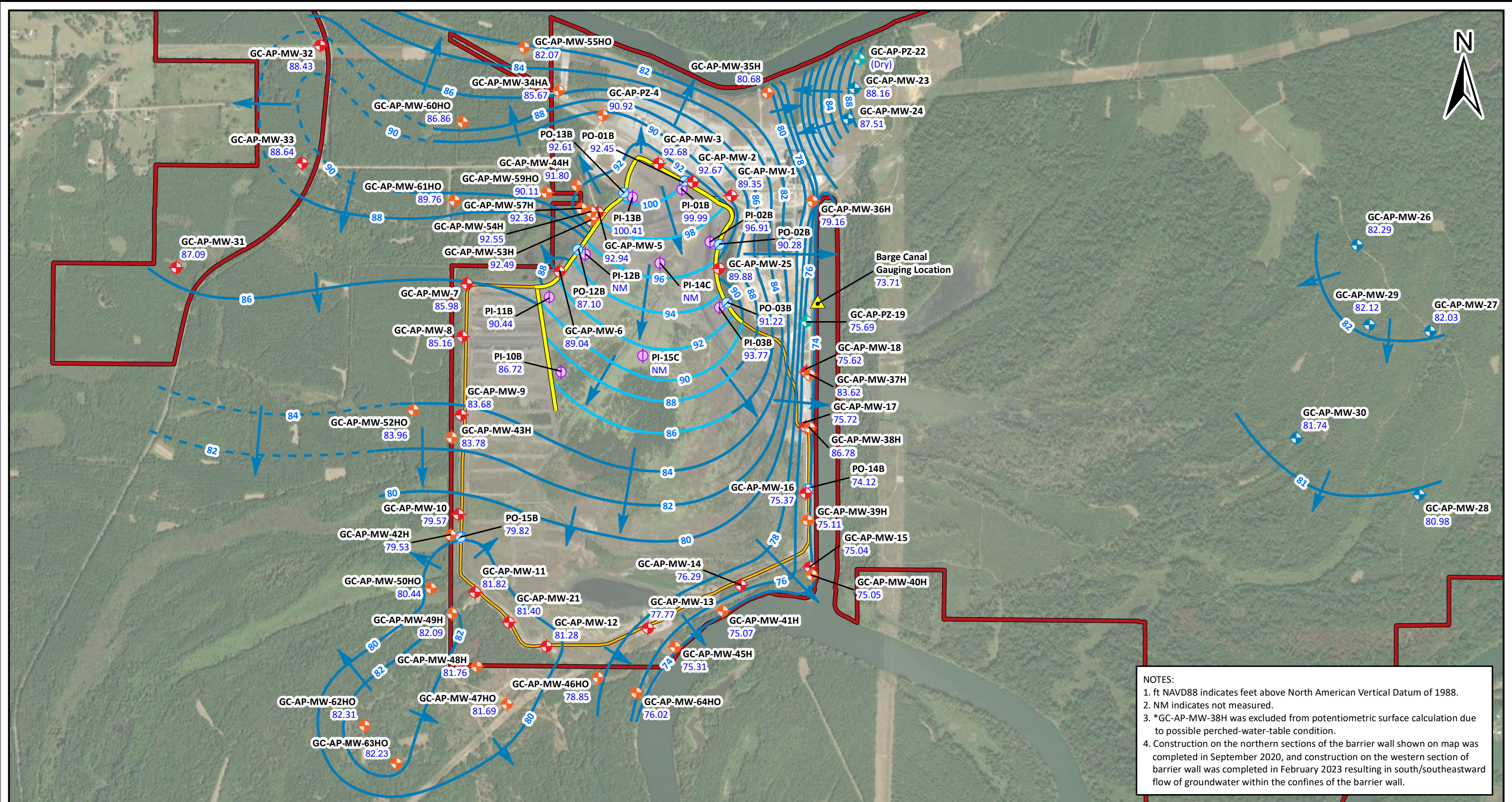
- Downgradient Compliance Well
- Upgradient Compliance Well
- Horizontal Delineation Well
- Piezometer
- Abandoned Monitoring Well
- Slurry Wall Alignment
- Ash Pond Boundary
- Property Boundary (Approximate)



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet  
 Base Map: Maxar Vivid Advanced, 10/4/2019

SCALE	1:15,000
DATE	10/18/2023
DRAWN BY	KWR
CHECKED BY	GFB

DRAWING TITLE: <b>MONITORING WELL LOCATION MAP PLANT GREENE COUNTY ASH POND</b>	
FIGURE NO. <b>FIGURE 5</b>	



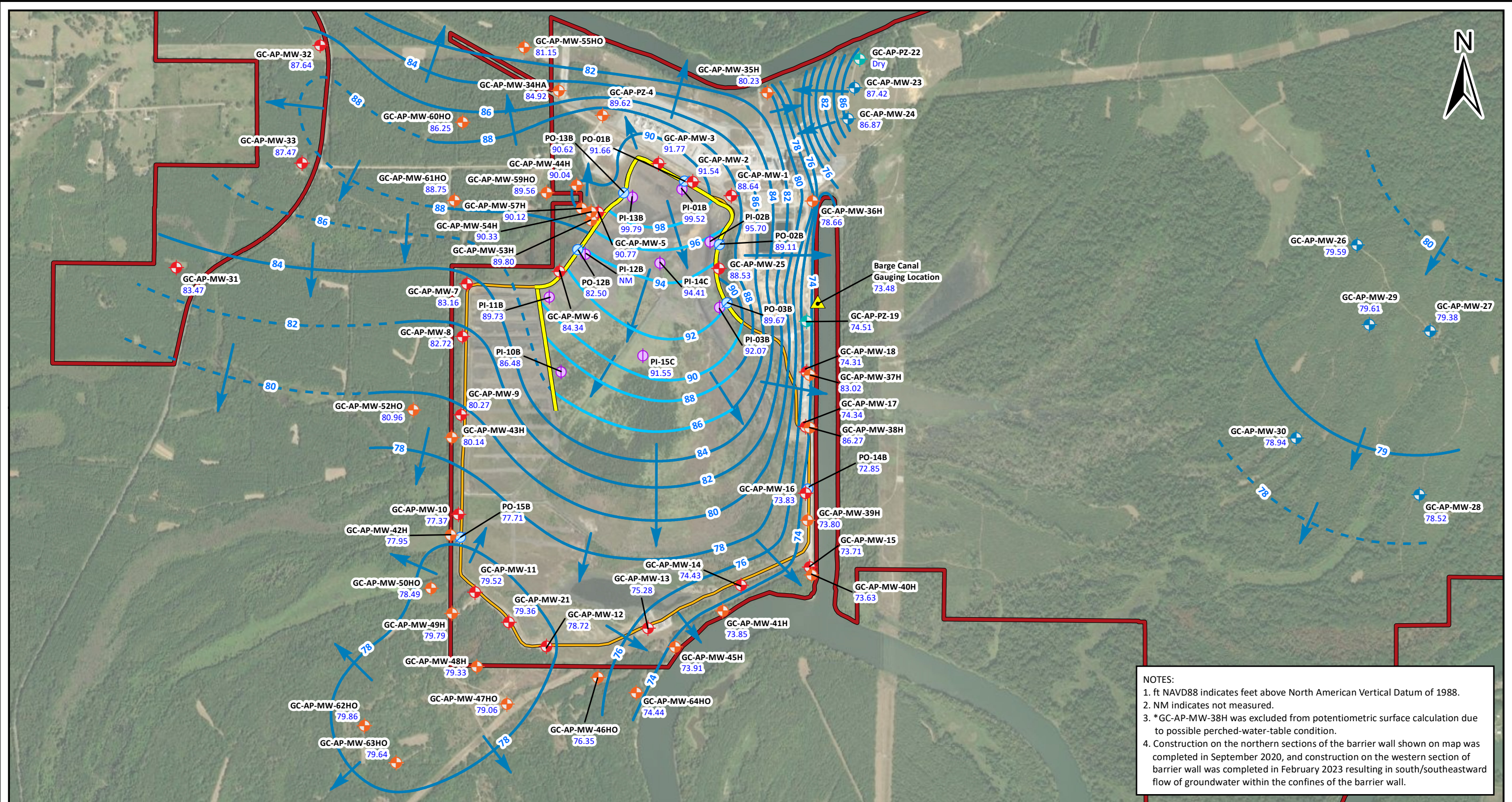
NOTES:  
 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.  
 2. NM indicates not measured.  
 3. \*GC-AP-MW-38H was excluded from potentiometric surface calculation due to possible perched-water-table condition.  
 4. Construction on the northern sections of the barrier wall shown on map was completed in September 2020, and construction on the western section of barrier wall was completed in February 2023 resulting in south/southeastward flow of groundwater within the confines of the barrier wall.

**LEGEND**

Barge Canal Gauging Location	Vibrating Wire Piezometer (Inside CCR Containment Dike)	Approximate Potentiometric Surface Contour (ft NAVD88) (Inside Barrier Wall)	Ash Pond Boundary
Downgradient Compliance Well	Vibrating Wire Piezometer (Outside CCR Containment Dike)	Inferred Potentiometric Surface Contour (ft NAVD88) (Outside Barrier Wall)	Property Boundary (Approximate)
Upgradient Compliance Well	Slurry Wall Alignment	Approximate Groundwater Flow Direction	GC-AP-MW-17 Well ID
Horizontal Delineation Well	Approximate Potentiometric Surface Contour (ft NAVD88) (Outside Barrier Wall)		75.72 Groundwater Elevation (ft NAVD88)
Piezometer	Approximate Potentiometric Surface Contour (ft NAVD88) (Outside Barrier Wall)		
Abandoned Monitoring Well			

Scale: 1:15000  
 Date: 1/23/2024  
 Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet  
 Base Map: Maxar Vivid Advanced, 10/4/2019

SCALE	1:15000	DRAWING TITLE: <b>POTENTIOMETRIC SURFACE CONTOUR MAP</b> <b>MAY 15, 2023</b> <b>PLANT GREENE COUNTY ASH POND</b>
DATE	1/23/2024	
DRAWN BY	KWR	FIGURE NO. <b>FIGURE 6A</b>
CHECKED BY	GFB	



NOTES:  
 1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.  
 2. NM indicates not measured.  
 3. \*GC-AP-MW-38H was excluded from potentiometric surface calculation due to possible perched-water-table condition.  
 4. Construction on the northern sections of the barrier wall shown on map was completed in September 2020, and construction on the western section of barrier wall was completed in February 2023 resulting in south/southeastward flow of groundwater within the confines of the barrier wall.

**LEGEND**

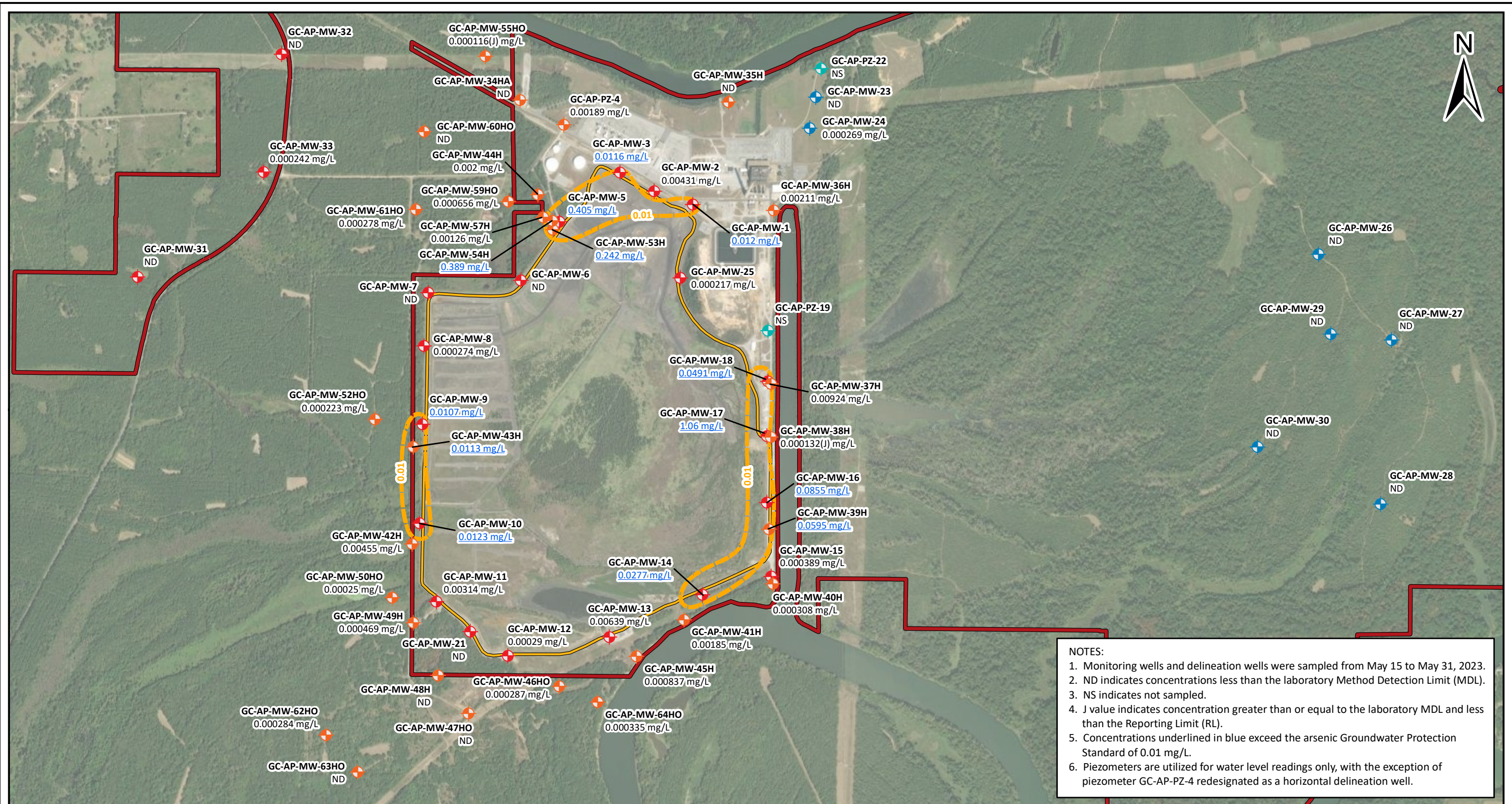
Barge Canal Gauging Location	Vibrating Wire Piezometer (Inside CCR Containment Dike)	Approximate Potentiometric Surface Contour (ft NAVD88) (Inside Barrier Wall)	Ash Pond Boundary
Downgradient Compliance Well	Vibrating Wire Piezometer (Outside CCR Containment Dike)	Inferred Potentiometric Surface Contour (ft NAVD88) (Outside Barrier Wall)	Property Boundary (Approximate)
Upgradient Compliance Well	Slurry Wall Alignment	Approximate Groundwater Flow Direction	GC-AP-MW-17 Well ID
Horizontal Delineation Well	Approximate Potentiometric Surface Contour (ft NAVD88) (Outside Barrier Wall)		GC-AP-MW-17 Groundwater Elevation (ft NAVD88)
Piezometer	Approximate Potentiometric Surface Contour (ft NAVD88) (Outside Barrier Wall)		
Abandoned Monitoring Well			

SCALE	1:15000
DATE	1/29/2024
DRAWN BY	KWR
CHECKED BY	GFB

DRAWING TITLE: **POTENTIOMETRIC SURFACE CONTOUR MAP**  
**OCTOBER 17, 2023**  
**PLANT GREENE COUNTY ASH POND**

FIGURE NO. **FIGURE 6B**

Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet  
 Base Map: Maxar Vivid Advanced, 10/4/2019



**NOTES:**

- Monitoring wells and delineation wells were sampled from May 15 to May 31, 2023.
- ND indicates concentrations less than the laboratory Method Detection Limit (MDL).
- NS indicates not sampled.
- J value indicates concentration greater than or equal to the laboratory MDL and less than the Reporting Limit (RL).
- Concentrations underlined in blue exceed the arsenic Groundwater Protection Standard of 0.01 mg/L.
- Piezometers are utilized for water level readings only, with the exception of piezometer GC-AP-PZ-4 redesignated as a horizontal delineation well.

**LEGEND**

	Downgradient Compliance Well		Arsenic GWPS Isoconcentration Contour (mg/L)
	Upgradient Compliance Well		Ash Pond Boundary
	Horizontal Delineation Well		Property Boundary (Approximate)
	Piezometer		



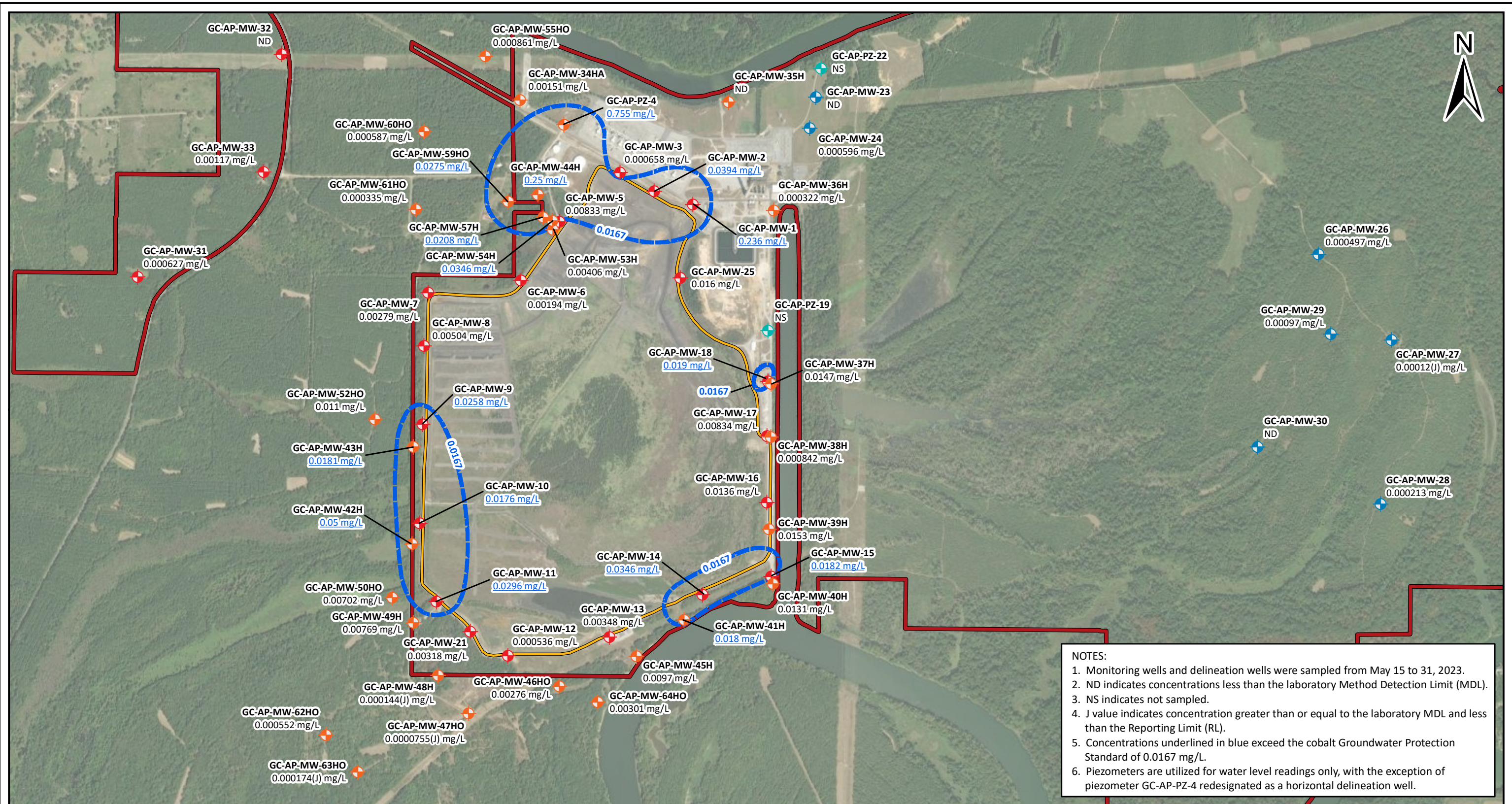
Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet  
 Base Map: Maxar Vivid Advanced, 10/4/2019

SCALE	1:15000
DATE	1/23/2024
DRAWN BY	KWR
CHECKED BY	GFB

DRAWING TITLE: **ARSENIC ISOCONCENTRATION MAP  
PLANT GREENE COUNTY ASH POND**

FIGURE NO. **FIGURE 7A**

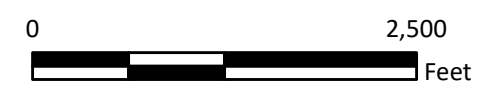




NOTES:

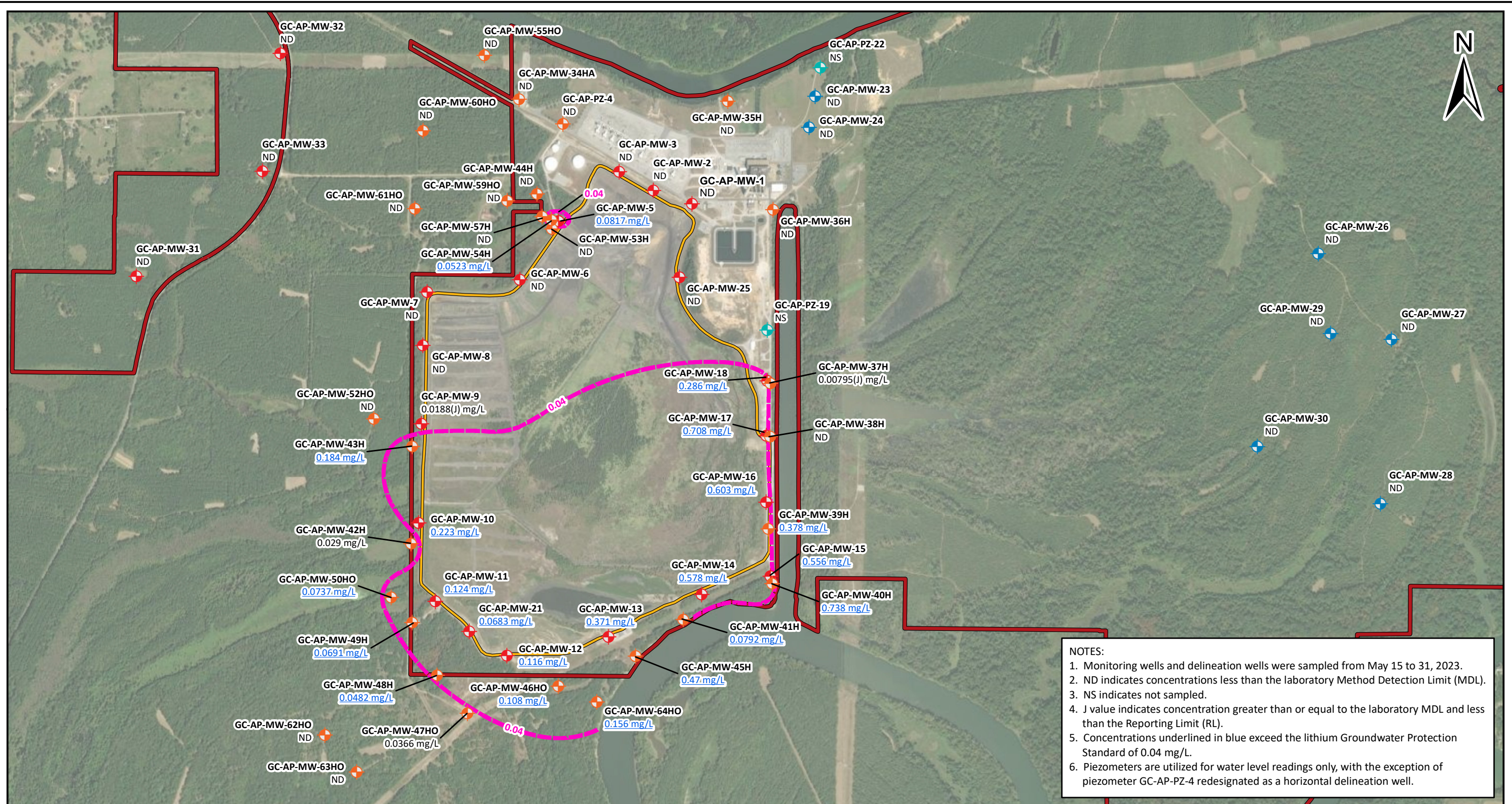
1. Monitoring wells and delineation wells were sampled from May 15 to 31, 2023.
2. ND indicates concentrations less than the laboratory Method Detection Limit (MDL).
3. NS indicates not sampled.
4. J value indicates concentration greater than or equal to the laboratory MDL and less than the Reporting Limit (RL).
5. Concentrations underlined in blue exceed the cobalt Groundwater Protection Standard of 0.0167 mg/L.
6. Piezometers are utilized for water level readings only, with the exception of piezometer GC-AP-PZ-4 redesignated as a horizontal delineation well.

LEGEND	
	Downgradient Compliance Well
	Upgradient Compliance Well
	Horizontal Delineation Well
	Piezometer
	Cobalt GWPS Isoconcentration Contour (mg/L)
	Ash Pond Boundary
	Property Boundary (Approximate)



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet  
 Base Map: Maxar Vivid Advanced, 10/4/2019








SCALE	1:15000	DRAWING TITLE: <b>COBALT ISOCONCENTRATION MAP PLANT GREENE COUNTY ASH POND</b>
DATE	1/23/2024	
DRAWN BY	KWR	FIGURE NO.
CHECKED BY	GFB	<b>FIGURE 7B</b>



NOTES:

1. Monitoring wells and delineation wells were sampled from May 15 to 31, 2023.
2. ND indicates concentrations less than the laboratory Method Detection Limit (MDL).
3. NS indicates not sampled.
4. J value indicates concentration greater than or equal to the laboratory MDL and less than the Reporting Limit (RL).
5. Concentrations underlined in blue exceed the lithium Groundwater Protection Standard of 0.04 mg/L.
6. Piezometers are utilized for water level readings only, with the exception of piezometer GC-AP-PZ-4 redesignated as a horizontal delineation well.


**LEGEND**

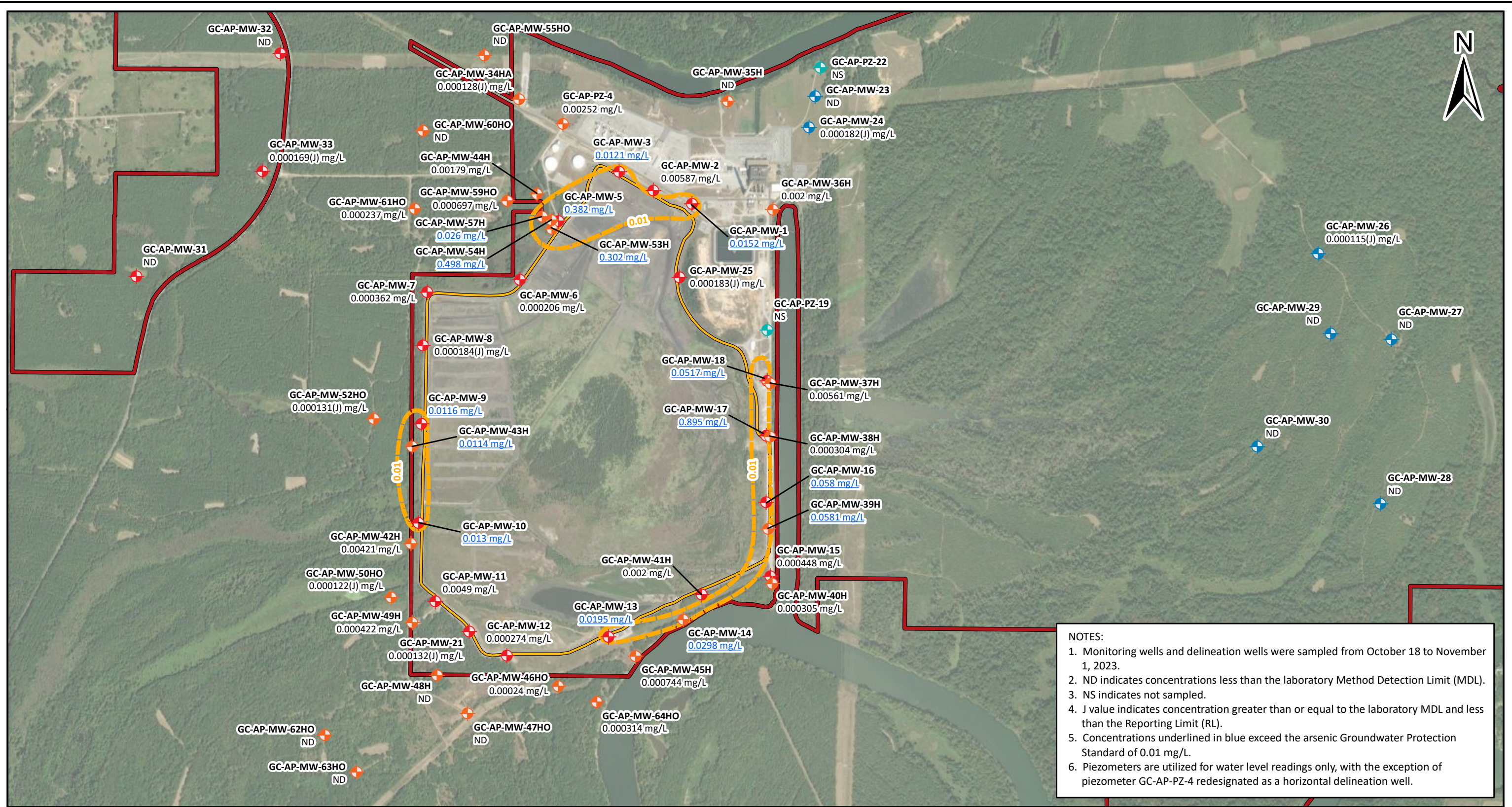
-  Downgradient Compliance Well
-  Upgradient Compliance Well
-  Horizontal Delineation Well
-  Piezometer
-  Lithium GWPS Isoconcentration Contour (mg/L)
-  Ash Pond Boundary
-  Property Boundary (Approximate)



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet  
 Base Map: Maxar Vivid Advanced, 10/4/2019

SCALE	1:15000
DATE	1/23/2024
DRAWN BY	KWR
CHECKED BY	GFB

DRAWING TITLE: <b>LITHIUM ISOCONCENTRATION MAP PLANT GREENE COUNTY ASH POND</b>	
FIGURE NO.	<b>FIGURE 7C</b>
	



**NOTES:**

- Monitoring wells and delineation wells were sampled from October 18 to November 1, 2023.
- ND indicates concentrations less than the laboratory Method Detection Limit (MDL).
- NS indicates not sampled.
- J value indicates concentration greater than or equal to the laboratory MDL and less than the Reporting Limit (RL).
- Concentrations underlined in blue exceed the arsenic Groundwater Protection Standard of 0.01 mg/L.
- Piezometers are utilized for water level readings only, with the exception of piezometer GC-AP-PZ-4 redesignated as a horizontal delineation well.

**LEGEND**

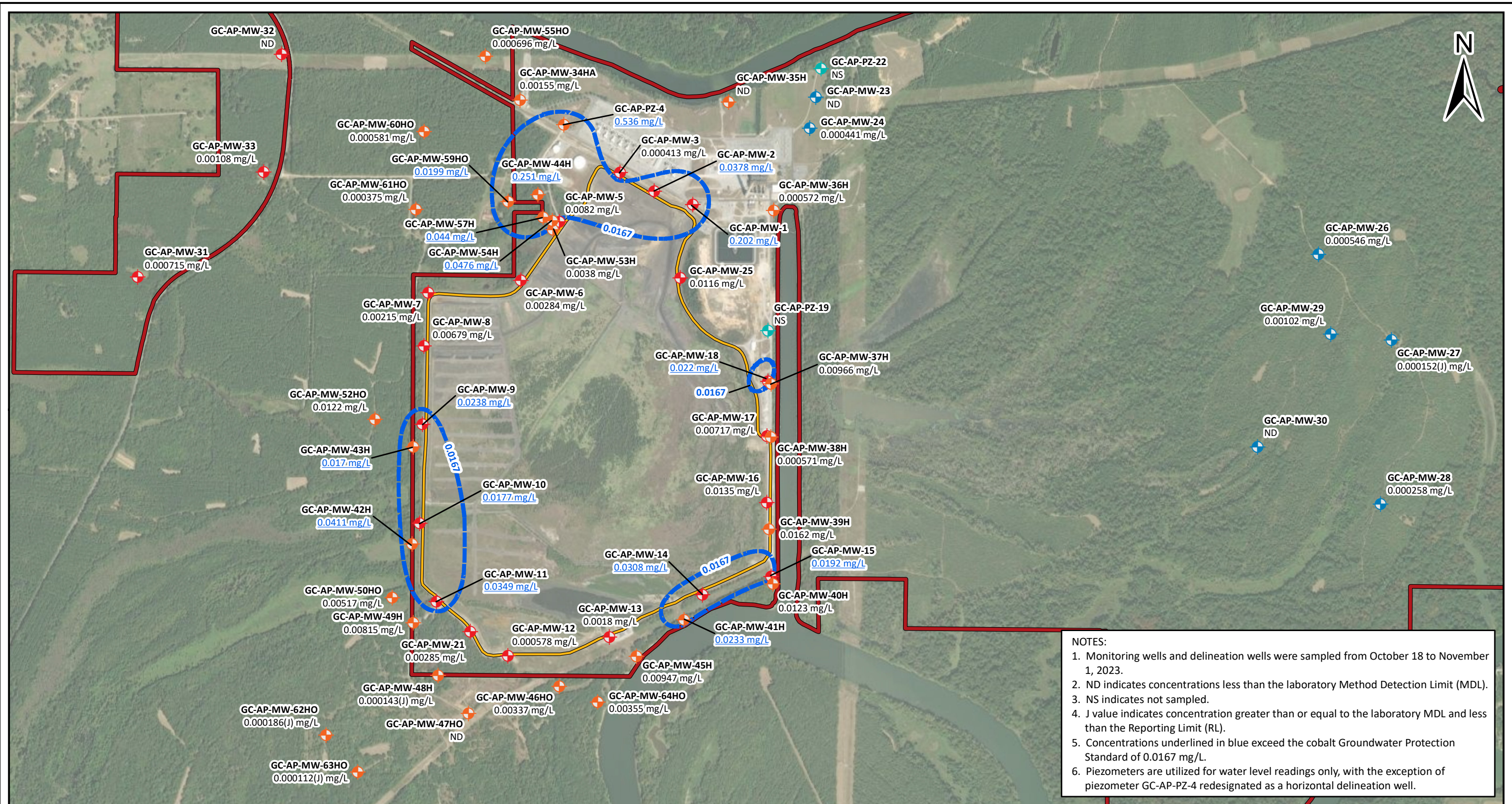
- Downgradient Compliance Well
- Upgradient Compliance Well
- Horizontal Delineation Well
- Piezometer
- Arsenic GWPS Isoconcentration Contour (mg/L)
- Ash Pond Boundary
- Property Boundary (Approximate)



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet  
 Base Map: Maxar Vivid Advanced, 10/4/2019

SCALE	1:15000
DATE	1/23/2024
DRAWN BY	KWR
CHECKED BY	GFB

DRAWING TITLE: <b>ARSENIC ISOCONCENTRATION MAP PLANT GREENE COUNTY ASH POND</b>	
FIGURE NO. <b>FIGURE 8A</b>	



NOTES:

1. Monitoring wells and delineation wells were sampled from October 18 to November 1, 2023.
2. ND indicates concentrations less than the laboratory Method Detection Limit (MDL).
3. NS indicates not sampled.
4. J value indicates concentration greater than or equal to the laboratory MDL and less than the Reporting Limit (RL).
5. Concentrations underlined in blue exceed the cobalt Groundwater Protection Standard of 0.0167 mg/L.
6. Piezometers are utilized for water level readings only, with the exception of piezometer GC-AP-PZ-4 redesignated as a horizontal delineation well.

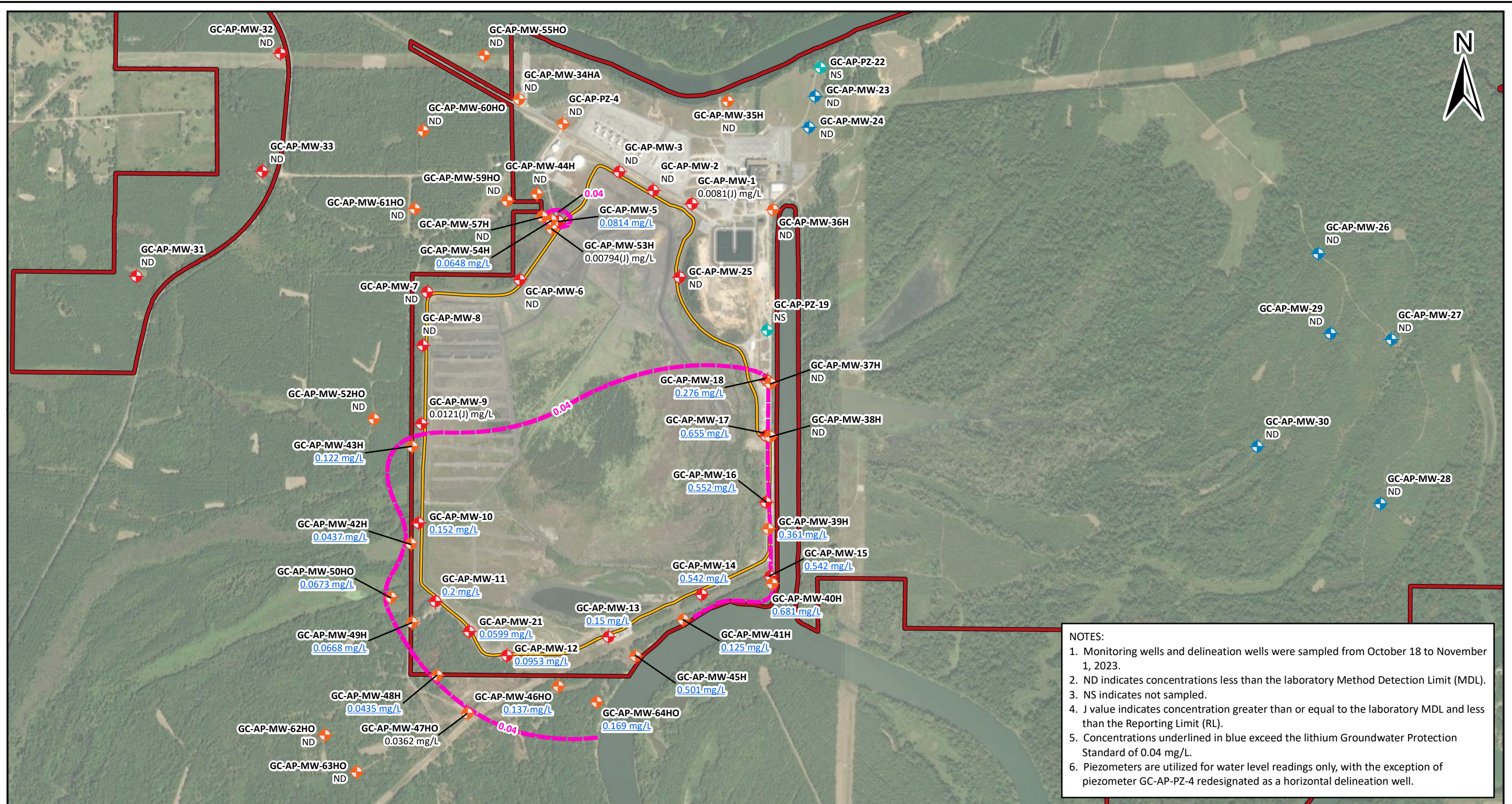
LEGEND	
	Downgradient Compliance Well
	Upgradient Compliance Well
	Horizontal Delineation Well
	Piezometer
	Cobalt GWPS Isoconcentration Contour (mg/L)
	Ash Pond Boundary
	Property Boundary (Approximate)



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet  
 Base Map: Maxar Vivid Advanced, 10/4/2019

SCALE	1:15000
DATE	1/23/2024
DRAWN BY	KWR
CHECKED BY	GFB








DRAWING TITLE: <b>COBALT ISOCONCENTRATION MAP PLANT GREENE COUNTY ASH POND</b>	
FIGURE NO. <b>FIGURE 8B</b>	



NOTES:

1. Monitoring wells and delineation wells were sampled from October 18 to November 1, 2023.
2. ND indicates concentrations less than the laboratory Method Detection Limit (MDL).
3. NS indicates not sampled.
4. J value indicates concentration greater than or equal to the laboratory MDL and less than the Reporting Limit (RL).
5. Concentrations underlined in blue exceed the lithium Groundwater Protection Standard of 0.04 mg/L.
6. Piezometers are utilized for water level readings only, with the exception of piezometer GC-AP-PZ-4 redesignated as a horizontal delineation well.


**LEGEND**

-  Downgradient Compliance Well
-  Upgradient Compliance Well
-  Horizontal Delineation Well
-  Piezometer
-  Lithium GWPS Isoconcentration Contour (mg/L)
-  Ash Pond Boundary
-  Property Boundary (Approximate)



Projection: NAD 1983 State Plane Alabama West FIPS 0102 Feet  
 Base Map: Maxar Vivid Advanced, 10/4/2019

SCALE	1:15000
DATE	1/23/2024
DRAWN BY	KWR
CHECKED BY	GFB

DRAWING TITLE: <b>LITHIUM ISOCONCENTRATION MAP PLANT GREENE COUNTY ASH POND</b>	
FIGURE NO.	<b>FIGURE 8C</b>
	

# Tables



**Table 1a. - Compliance Monitoring Well Network Details  
Plant Greene County Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
<b>WELL NETWORK</b>											
GC-AP-MW-23	Upgradient	Unit 2: Poorly Graded Sands with Gravel	32.60477	-87.77933	99.50	102.64	18.5	94.54	84.54	10	12/16/2015
GC-AP-MW-24	Upgradient	Unit 2: Poorly Graded Sands with Gravel	32.60365	-87.77959	102.94	106.05	23.2	93.25	83.25	10	5/6/2013
GC-AP-MW-26	Upgradient	Unit 2: Poorly Graded Sands with Gravel	32.59912	-87.75774	86.14	89.25	34.6	65.10	55.10	10	6/28/2016
GC-AP-MW-27	Upgradient	Unit 2: Poorly Graded Sands with Gravel	32.59599	-87.75459	87.82	90.68	37.9	63.22	53.22	10	6/29/2016
GC-AP-MW-28	Upgradient	Unit 2: Poorly Graded Sands with Gravel	32.59004	-87.75505	85.66	89.36	33.5	66.31	56.31	10	6/29/2016
GC-AP-MW-29	Upgradient	Unit 2: Poorly Graded Sands with Gravel	32.59621	-87.75721	86.63	89.32	34.7	65.04	55.04	10	6/29/2016
GC-AP-MW-30	Upgradient	Unit 2: Poorly Graded Sands with Gravel	32.5921	-87.76035	87.31	89.87	35.2	65.09	55.09	10	7/8/2016
GC-AP-MW-1	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.60085	-87.78459	104.22	107.79	29.1	89.05	79.05	10	8/26/2015
GC-AP-MW-2	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.60134	-87.78625	103.16	106.14	23.7	92.86	82.86	10	8/26/2015
GC-AP-MW-3	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.60201	-87.78773	103.51	106.39	27.0	89.79	79.79	10	5/7/2013
GC-AP-MW-5	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.60022	-87.79031	105.71	108.43	27.1	91.75	81.75	10	8/25/2015
GC-AP-MW-6	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.59808	-87.79196	98.42	102.05	30.3	82.15	72.15	10	8/25/2015
GC-AP-MW-7	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.59762	-87.79594	95.51	98.56	32.1	76.84	66.84	10	5/7/2013

**Notes:**  
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing  
 (1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.  
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.  
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1a. - Compliance Monitoring Well Network Details  
Plant Greene County Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
<b>WELL NETWORK</b>											
GC-AP-MW-8	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.5957	-87.79611	93.75	97.11	30.6	76.96	66.96	10	8/24/2015
GC-AP-MW-9	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.59285	-87.79617	90.23	93.19	32.4	71.17	61.17	10	5/8/2013
GC-AP-MW-10	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.58925	-87.79627	85.51	87.84	25.8	72.49	62.49	10	9/2/2015
GC-AP-MW-11	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.5864	-87.79555	97.51	101.18	38.4	73.20	63.20	10	4/23/2013
GC-AP-MW-12	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.58445	-87.79248	100.09	103.26	36.9	76.76	66.76	10	8/24/2015
GC-AP-MW-13	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.58513	-87.78813	97.43	101.18	28.7	82.87	72.87	10	4/24/2013
GC-AP-MW-14	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.58669	-87.78413	83.31	85.61	22.9	73.16	63.16	10	8/24/2015
GC-AP-MW-15	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.58736	-87.7812	89.49	91.69	41.0	61.06	51.06	10	8/27/2015
GC-AP-MW-16	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.59005	-87.78138	106.16	108.79	48.8	70.38	60.38	10	8/21/2015
GC-AP-MW-17	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.59246	-87.78138	103.60	106.40	49.8	66.96	56.96	10	8/27/2015
GC-AP-MW-18	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.59444	-87.78135	102.02	105.04	48.1	67.31	57.31	10	8/21/2015
GC-AP-MW-21	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.58533	-87.79409	102.10	105.72	40.5	75.60	65.60	10	12/14/2015
GC-AP-MW-25	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.59819	-87.78512	101.94	104.98	37.2	78.20	68.20	10	6/28/2016

**Notes:**  
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing  
 (1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.  
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.  
 (3) Total well depth accounts for sump if data provided on well construction logs.





**Table 1a. - Compliance Monitoring Well Network Details  
Plant Greene County Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
<b>WELL NETWORK</b>											
GC-AP-MW-31	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.59817	-87.8084	90.93	94.19	32.0	72.63	62.63	10	7/8/2016
GC-AP-MW-32	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.60627	-87.80226	102.90	105.85	37.5	78.74	68.74	10	7/8/2016
GC-AP-MW-33	Downgradient	Unit 2: Poorly Graded Sands with Gravel	32.60199	-87.80302	106.23	108.99	33.1	86.29	76.29	10	7/8/2016
Barge Canal	Downgradient										--

**Notes:**  
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing  
 (1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.  
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.  
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1b. - Delineation Well Network Details  
Plant Greene County Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
<b>WELL NETWORK</b>											
GC-AP-PZ-4	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60376	-87.79013	100.47	103.53	27.6	86.33	76.33	10	5/7/2013
GC-AP-MW-34HA	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60464	-87.79202	105.35	108.38	25.6	93.22	83.22	10	1/9/2019
GC-AP-MW-35H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60459	-87.78307	99.54	102.64	23.9	84.14	79.14	5	12/21/2018
GC-AP-MW-36H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60065	-87.78112	103.18	105.17	30.3	80.24	75.24	10	1/10/2019
GC-AP-MW-37H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.59435	-87.78122	103.22	106.04	30.4	86.04	76.04	10	12/17/2018
GC-AP-MW-38H	Horizontal Delineation	Fill/Unit 1 Transition	32.59243	-87.78122	103.49	106.58	25.4	91.58	81.58	10	12/18/2018
GC-AP-MW-39H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58907	-87.7813	106.97	109.89	53.6	66.74	56.74	10	12/18/2018
GC-AP-MW-40H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58708	-87.78111	84.52	87.53	32.3	65.67	55.67	10	12/19/2018
GC-AP-MW-41H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58577	-87.78492	82.92	86.57	30.4	60.90	56.57	10	12/19/2018
GC-AP-MW-42H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.5885	-87.7966	84.86	87.56	24.9	73.06	63.06	10	12/20/2018
GC-AP-MW-43H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.59203	-87.79656	89.35	91.76	28.4	73.76	63.76	10	12/20/2018
GC-AP-MW-44H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60121	-87.79124	98.76	101.13	27.4	84.15	74.15	10	1/10/2019
GC-AP-MW-45H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58445	-87.78696	92.20	95.14	37.5	68.04	58.04	10	12/7/2019
GC-AP-MW-46HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58334	-87.79027	90.34	93.35	26.1	77.65	67.65	10	6/15/2020

**Notes:**  
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing  
 (1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.  
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.  
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1b. - Delineation Well Network Details  
Plant Greene County Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
<b>WELL NETWORK</b>											
GC-AP-MW-47HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58235	-87.79416	90.39	93.86	27.4	76.91	66.91	10	5/13/2020
GC-AP-MW-48H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58372	-87.79546	86.99	90.11	22.2	73.27	68.27	5	12/6/2019
GC-AP-MW-49H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58564	-87.79653	88.86	91.71	27.2	74.91	64.91	10	12/6/2019
GC-AP-MW-50HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58655	-87.79744	85.31	88.92	33.9	65.42	55.42	10	5/13/2020
GC-AP-MW-52HO	Horizontal Delineation	Unit 1/Unit 2 Transition	32.59303	-87.79821	88.72	91.77	24.6	77.57	67.57	10	6/15/2020
GC-AP-MW-53H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.59994	-87.7906	99.45	102.31	17.5	90.18	85.18	5	12/5/2019
GC-AP-MW-54H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60025	-87.79062	99.81	102.94	16.9	91.42	86.42	5	12/5/2019
GC-AP-MW-55HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60621	-87.79351	110.83	114.37	43.5	81.27	71.27	10	5/15/2020
GC-AP-MW-57H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60037	-87.79102	97.65	100.43	15.6	90.28	85.28	5	12/9/2019
GC-AP-MW-59HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60094	-87.79252	97.72	101.69	27.8	84.29	74.29	10	5/14/2020
GC-AP-MW-60HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60349	-87.79613	105.31	108.47	32.3	86.62	76.62	10	6/1/2021
GC-AP-MW-61HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.60065	-87.79649	106.64	109.69	31.5	88.63	78.63	10	6/2/2021
GC-AP-MW-62HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58155	-87.80027	86.94	89.89	28.9	71.39	61.39	10	6/3/2021

**Notes:**  
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing  
 (1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.  
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.  
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1b. - Delineation Well Network Details  
Plant Greene County Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
<b>WELL NETWORK</b>											
GC-AP-MW-63HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.5802	-87.7989	87.67	91.08	27.4	74.05	64.05	10	6/2/2021
GC-AP-MW-64HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	32.58277	-87.78861	92.55	95.65	46.9	59.14	49.14	10	6/3/2021

**Notes:**  
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing  
 (1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.  
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.  
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1c. - Piezometer Well Network Details  
Plant Greene County Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
<b>WELL NETWORK</b>											
GC-AP-PZ-19	Piezometer	Unit 2: Poorly Graded Sands with Gravel	32.59628	-87.78135	101.70	104.91	39.4	75.91	65.91	10	8/20/2015
GC-AP-PZ-22	Piezometer	Unit 2: Poorly Graded Sands with Gravel	32.60581	-87.77911	101.40	104.64	15.0	95.04	90.04	5	12/15/2015

**Notes:**  
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing  
 (1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.  
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.  
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1d. - Abandoned Well Network Details  
Plant Greene County Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
<b>WELL NETWORK</b>											
GC-AP-MW-56H	Abandoned	Unit 2: Poorly Graded Sands with Gravel	32.60631	-87.79184	102.25	105.24	24.5	86.19	81.19	5	12/8/2019

**Notes:**  
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing  
 (1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.  
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.  
 (3) Total well depth accounts for sump if data provided on well construction logs.



## Table 2. Parameters And Reporting Limits

Plant Greene County Ash Pond  
05/15/2023 - 11/01/2023

<b>Appendix III Parameters</b>			
Parameters	Analytical Methods	Reporting Limits	Units of Measure
Boron	EPA 200.7	0.1015	mg/L
Calcium	EPA 200.7	0.406-40.6	mg/L
Chloride	SM4500Cl E	1-16	mg/L
Fluoride	SM4500F G 2017	0.125	mg/L
pH_Field	Field Sampling	NA	SU
Sulfate	SM4500SO4 E 2011	2-80	mg/L
TDS	NA	NA	mg/L
<b>Appendix IV Parameters</b>			
Parameters	Analytical Methods	Reporting Limits	Units of Measure
Antimony	EPA 200.8	0.001015	mg/L
Arsenic	EPA 200.8	0.000203	mg/L
Barium	EPA 200.8	0.001015	mg/L
Beryllium	EPA 200.8	0.001015	mg/L
Cadmium	EPA 200.8	0.000203	mg/L
Chromium	EPA 200.8	0.001015	mg/L
Cobalt	EPA 200.8	0.000203	mg/L
Fluoride	SM4500F G 2017	0.125	mg/L
Lead	EPA 200.8	0.000203	mg/L
Lithium	EPA 200.7	0.02	mg/L
Mercury	EPA 245.1	0.0005	mg/L
Molybdenum	EPA 200.7	0.01015	mg/L
Selenium	EPA 200.8	0.001015	mg/L
Thallium	EPA 200.8	0.000203	mg/L
Combined Radium 226 + 228	Total Radium Calculation	0.99-1.63	pCi/L

Notes:

1. Reporting Limit values can display range depending upon matrix interferences and dilution factors
2. pH is a field acquired parameter and does not have a laboratory method or reporting limit
3. Combined Radium 226 + 228 – product of radium-226 + radium-228; reporting limits presented are sum of radium 226, radium 228 reporting limits
4. EPA 200.7 – EPA methodology for the "Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry"
5. EPA 200.8 - EPA methodology for the "Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)"
6. SM 2320, 2540, 4500 – Standard Methods for Examination of Water and Wastewater.
7. Total Radium Calculation – Term used herein for EPA 9315 + EPA 9320
8. EPA 9315 – Used for Radium-226; SW-846: Alpha-Emitting Radium Isotopes, part of Test Methods for Evaluation Solid Waste, Physical/Chemical Methods
9. EPA 9320 – Used for Radium-228; SW-846: Alpha-Emitting Radium Isotopes, part of Test Methods for Evaluation Solid Waste, Physical/Chemical



**Table 3.  
Recent Groundwater Elevations Summary  
Greene County Ash Pond**

Well Name	Top of Casing Elevation	Date									
		5/28/2020	6/30/2020	8/10/2020	3/8/2021	6/28/2021	8/16/2021	3/22/2022	10/3/2022	5/15/2023	10/17/2023
GC-AP-MW-1	107.79	91.76	90.85	91.15	89.44	90.35	90.01	88.95	88.89	89.35	88.64
GC-AP-MW-2	106.14	98.35	97.40	94.66	92.74	93.33	92.69	92.32	91.89	92.67	91.54
GC-AP-MW-3	106.39	98.14	97.13	94.16	92.78	93.43	92.80	92.39	92.05	92.68	91.77
GC-AP-PZ-4	103.53	93.63	92.55	91.74	91.58	92.25	91.37	90.83	89.91	90.92	89.62
GC-AP-MW-5	108.43	96.78	96.27	93.68	94.31	94.24	93.04	93.40	91.14	92.94	90.77
GC-AP-MW-6	102.05	96.24	95.41	90.37	91.63	91.16	90.31	90.84	85.87	89.04	84.34
GC-AP-MW-7	98.56	88.94	87.77	86.56	87.95	87.54	86.54	86.65	83.02	85.98	83.16
GC-AP-MW-8	97.11	87.59	86.47	85.64	86.61	86.14	85.13	85.03	82.08	85.16	82.72
GC-AP-MW-9	93.19	86.10	84.98	83.71	85.01	84.51	83.43	83.98	80.51	83.68	80.27
GC-AP-MW-10	87.84	83.19	81.90	80.62	82.54	82.04	80.78	81.93	78.84	79.57	77.37
GC-AP-MW-11	101.18	84.13	82.94	82.13	83.43	83.33	82.01	83.02	80.42	81.82	79.52
GC-AP-MW-12	103.26	81.87	81.05	81.21	82.96	81.85	81.26	81.54	78.84	81.28	78.72
GC-AP-MW-13	101.18	78.31	Dry	76.97	80.98	80.67	77.67	80.64	75.79	77.77	75.28
GC-AP-MW-14	85.61	77.88	76.55	75.28	78.61	79.30	76.57	81.33	75.17	76.29	74.43
GC-AP-MW-15	91.69	76.01	75.26	74.10	77.17	77.25	75.49	80.10	73.93	75.04	73.71
GC-AP-MW-16	108.79	76.41	75.74	74.59	77.49	77.62	75.77	80.22	74.20	75.37	73.83
GC-AP-MW-17	106.40	77.73	76.77	75.54	77.95	77.99	76.91	80.61	74.72	75.72	74.34
GC-AP-MW-18	105.04	77.19	75.48	75.08	77.58	77.48	76.56	80.46	74.59	75.62	74.31
GC-AP-PZ-19	104.91	76.51	Dry	75.22	77.76	77.82	76.10	80.60	74.82	75.69	74.51
GC-AP-MW-21	105.72	82.42	81.66	81.08	83.27	82.16	81.56	81.96	79.62	81.40	79.36
GC-AP-PZ-22	104.64	90.31	Dry	88.92	Dry	Dry	88.66	Dry	Dry	Dry	Dry
GC-AP-MW-23	102.64	89.78	89.51	89.04	88.44	89.16	88.66	87.78	87.38	88.16	87.42
GC-AP-MW-24	106.05	89.29	89.09	88.65	87.73	88.47	88.14	87.10	87.02	87.51	86.87
GC-AP-MW-25	104.98	97.88	97.12	96.38	92.08	92.81	91.67	91.18	89.42	89.88	88.53
GC-AP-MW-26	89.25	85.13	82.09	80.80	83.78	83.16	82.59	84.21	79.89	82.29	79.59
GC-AP-MW-27	90.68	83.55	81.91	80.57	83.09	82.86	82.25	83.43	79.55	82.03	79.38
GC-AP-MW-28	89.36	82.56	80.75	79.54	81.71	81.80	80.77	82.38	78.61	80.98	78.52
GC-AP-MW-29	89.32	84.42	81.95	80.77	83.29	82.91	82.18	83.72	79.84	82.12	79.61
GC-AP-MW-30	89.87	82.76	81.14	80.14	82.11	82.08	81.20	82.67	79.32	81.74	78.94
GC-AP-MW-31	94.19	86.81	86.02	84.56	87.86	87.11	85.59	87.38	83.17	87.09	83.47
GC-AP-MW-32	105.85	90.05	89.41	89.27	88.67	89.41	86.09	88.53	87.88	88.43	87.64
GC-AP-MW-33	108.99	90.45	89.93	89.40	89.07	89.80	92.12	88.55	87.61	88.64	87.47

Notes:

1. ft. = feet; ft. NAVD = elevation in feet, referenced to North American Vertical Datum (1988); TOC = top of casing; BTOC = below top of casing
2. -- Not Measured





**Table 3.  
Recent Groundwater Elevations Summary  
Greene County Ash Pond**

Well Name	Top of Casing Elevation	Date									
		5/28/2020	6/30/2020	8/10/2020	3/8/2021	6/28/2021	8/16/2021	3/22/2022	10/3/2022	5/15/2023	10/17/2023
GC-AP-MW-34HA	108.38	88.32	87.92	87.41	85.89	87.03	86.63	85.76	85.41	85.67	84.92
GC-AP-MW-35H	102.64	81.38	Dry	80.70	81.10	82.05	80.68	82.13	80.20	80.68	80.23
GC-AP-MW-36H	105.17	79.42	79.08	78.81	80.82	80.74	79.12	81.71	78.36	79.16	78.66
GC-AP-MW-37H	106.04	79.91	79.32	77.07	80.28	82.63	80.96	83.38	82.04	83.62	83.02
GC-AP-MW-38H	106.58	87.26	87.60	86.84	87.14	87.39	86.79	86.98	86.48	86.78	86.27
GC-AP-MW-39H	109.89	76.08	75.43	74.29	77.02	77.11	75.56	80.02	74.03	75.11	73.80
GC-AP-MW-40H	87.53	75.90	75.17	74.00	77.09	77.16	75.40	80.02	73.84	75.05	73.63
GC-AP-MW-41H	86.57	76.10	74.11	73.98	76.61	76.33	75.77	79.84	74.10	75.07	73.85
GC-AP-MW-42H	87.56	83.03	82.00	80.78	82.45	82.07	80.92	82.18	79.26	79.53	77.95
GC-AP-MW-43H	91.76	85.86	84.60	83.50	84.90	84.37	83.32	83.98	80.55	83.78	80.14
GC-AP-MW-44H	101.13	96.63	94.17	92.70	94.32	93.79	92.38	93.94	90.61	91.80	90.04
GC-AP-MW-45H	95.14	75.87	75.33	74.32	82.64	77.73	75.53	80.14	74.08	75.31	73.91
GC-AP-MW-46HO	93.35		78.49	77.77	81.17	81.25	78.57	80.97	76.56	78.85	76.35
GC-AP-MW-47HO	93.86	84.01	82.18	80.95	82.03	82.69	81.25	81.39	78.97	81.69	79.06
GC-AP-MW-48H	90.11	84.11	82.43	81.35	82.32	82.65	81.45	81.50	79.36	81.76	79.33
GC-AP-MW-49H	91.71	84.08	82.79	82.08	82.83	83.07	81.95	82.32	80.22	82.09	79.79
GC-AP-MW-50HO	88.92	81.98	81.19	80.51	81.50	81.36	80.58	81.56	79.34	80.44	78.49
GC-AP-MW-52HO	91.77		84.71	83.65	85.36	84.90	83.75	84.57	81.19	83.96	80.96
GC-AP-MW-53H	102.31	96.29	95.07	93.12	94.25	93.78	92.82	93.70	90.49	92.49	89.80
GC-AP-MW-54H	102.94	96.31	95.01	93.20	94.54	93.96	92.75	93.68	90.76	92.55	90.33
GC-AP-MW-55H0	114.37	84.31	83.58	83.03	82.76	81.31	82.69	83.45	81.51	82.07	81.15
GC-AP-MW-57H	100.43	96.02	92.50	92.91	94.23	93.74	92.63	93.79	90.60	92.36	90.12
GC-AP-MW-59HO	101.69	93.61	93.05	92.36	91.87	92.47	91.86	91.36	90.08	90.11	89.56
GC-AP-MW-60HO	108.47	--	--	--	--	88.31	88.05	86.89	86.69	86.86	86.25
GC-AP-MW-61HO	109.69	--	--	--	--	91.40	90.93	89.35	89.13	89.76	88.75
GC-AP-MW-62HO	89.89	--	--	--	--	83.31	81.39	81.77	79.59	82.31	79.86
GC-AP-MW-63HO	91.08	--	--	--	--	83.33	81.74	81.49	79.30	82.23	79.64
GC-AP-MW-64HO	95.65	--	--	--	--	78.44	76.10	80.43	74.57	76.02	74.44
<b>Barge Canal</b>	103.51									73.71	73.48

Notes:

1. ft. = feet; ft. NAVD = elevation in feet, referenced to North American Vertical Datum (1988); TOC = top of casing; BTOC = below top of casing
2. -- Not Measured



**Table 4a. Relative Percent Difference (RPD) Calculations**

Plant Greene County Ash Pond  
05/15/2023 - 10/31/2023

<b>GC-AP-MW-41H</b>				
<b>Sample Date = 10/31/2023</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Boron	mg/L	0.564	0.568	0.71%
Calcium	mg/L	154	149	3.30%
Chloride	mg/L	12.8	12.9	0.78%
Fluoride	mg/L	0.0601	0.0599	0.33%
Sulfate	mg/L	295	300	1.68%
Arsenic	mg/L	0.002	0.00207	3.44%
Barium	mg/L	0.127	0.12	5.67%
Cobalt	mg/L	0.0233	0.0211	9.91%
Lithium	mg/L	0.125	0.127	1.59%
<b>GC-AP-MW-1</b>				
<b>Sample Date = 10/24/2023</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Boron	mg/L	0.231	0.231	0.00%
Calcium	mg/L	122	132	7.87%
Chloride	mg/L	39.5	42	6.14%
Sulfate	mg/L	714	702	1.70%
Arsenic	mg/L	0.0152	0.0151	0.66%
Barium	mg/L	0.0368	0.036	2.20%
Cobalt	mg/L	0.202	0.204	0.99%
<b>GC-AP-MW-40H</b>				
<b>Sample Date = 10/24/2023</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Boron	mg/L	0.522	0.527	0.95%
Calcium	mg/L	96	97.9	1.96%
Chloride	mg/L	7.82	8.4	7.15%
Fluoride	mg/L	0.0974	0.0926	5.05%
Sulfate	mg/L	234	234	0.00%
Arsenic	mg/L	0.0003	0.00032	5.42%
Barium	mg/L	0.026	0.0264	1.53%
Cobalt	mg/L	0.0123	0.0124	0.81%
Lithium	mg/L	0.681	0.699	2.61%



**Table 4a. Relative Percent Difference (RPD) Calculations**

Plant Greene County Ash Pond  
05/15/2023 - 10/31/2023

<b>GC-AP-MW-47HO</b>				
<b>Sample Date = 10/24/2023</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Calcium	mg/L	12.5	12.4	0.80%
Chloride	mg/L	3.28	3.27	0.31%
Sulfate	mg/L	36.4	36.5	0.27%
Barium	mg/L	0.0247	0.0238	3.71%
Lithium	mg/L	0.0362	0.0358	1.11%
<b>GC-AP-PZ-4</b>				
<b>Sample Date = 10/24/2023</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Boron	mg/L	0.25	0.261	4.31%
Calcium	mg/L	161	167	3.66%
Chloride	mg/L	7.95	7.86	1.14%
Fluoride	mg/L	0.0737	0.072	2.33%
Sulfate	mg/L	607	633	4.19%
Arsenic	mg/L	0.00252	0.00248	1.60%
Barium	mg/L	0.0608	0.0614	0.98%
Cobalt	mg/L	0.536	0.534	0.37%
Lead	mg/L	0.00041	0.00043	2.86%
Selenium	mg/L	0.00198	0.00193	2.56%
<b>GC-AP-MW-64HO</b>				
<b>Sample Date = 10/18/2023</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Boron	mg/L	0.439	0.439	0.00%
Calcium	mg/L	60.6	66.8	9.73%
Chloride	mg/L	9.31	9.29	0.22%
Fluoride	mg/L	0.2	0.2	0.00%
Sulfate	mg/L	117	115	1.72%
Arsenic	mg/L	0.00031	0.00029	6.92%
Barium	mg/L	0.0767	0.0759	1.05%
Cobalt	mg/L	0.00355	0.00337	5.20%
Lithium	mg/L	0.169	0.168	0.59%
Molybdenum	mg/L	0.0717	0.0724	0.97%



**Table 4a. Relative Percent Difference (RPD) Calculations**

Plant Greene County Ash Pond  
05/15/2023 - 10/31/2023

<b>GC-AP-MW-26</b>				
<b>Sample Date = 5/30/2023</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Calcium	mg/L	8.37	8.23	1.69%
Chloride	mg/L	2.89	2.9	0.35%
Sulfate	mg/L	16	16	0.00%
Barium	mg/L	0.0393	0.039	0.77%
Cobalt	mg/L	0.0005	0.00048	2.86%
<b>GC-AP-MW-48H</b>				
<b>Sample Date = 5/30/2023</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Calcium	mg/L	9.8	9.8	0.00%
Chloride	mg/L	2.77	2.77	0.00%
Sulfate	mg/L	25	24.9	0.40%
Barium	mg/L	0.024	0.0245	2.06%
Lithium	mg/L	0.0482	0.0482	0.00%
<b>GC-AP-MW-57H</b>				
<b>Sample Date = 5/23/2023</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Boron	mg/L	0.109	0.106	2.79%
Calcium	mg/L	24.4	24.2	0.82%
Chloride	mg/L	11.4	11.3	0.88%
Sulfate	mg/L	53.6	51.8	3.42%
Arsenic	mg/L	0.00126	0.00131	3.89%
Barium	mg/L	0.128	0.126	1.58%
Cobalt	mg/L	0.0208	0.0194	6.97%
<b>GC-AP-MW-60HO</b>				
<b>Sample Date = 5/23/2023</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Calcium	mg/L	3.14	3.15	0.32%
Chloride	mg/L	3.7	3.8	2.67%
Sulfate	mg/L	6.96	7.13	2.41%
Barium	mg/L	0.042	0.0405	3.64%
Cobalt	mg/L	0.00059	0.0006	2.69%
Selenium	mg/L	0.00114	0.00121	5.96%



**Table 4a. Relative Percent Difference (RPD) Calculations**

Plant Greene County Ash Pond  
05/15/2023 - 10/31/2023

<b>GC-AP-MW-33</b>				
<b>Sample Date = 5/22/2023</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Calcium	mg/L	2.52	2.46	2.41%
Chloride	mg/L	4.53	4.52	0.22%
Sulfate	mg/L	15.5	15.7	1.28%
Arsenic	mg/L	0.00024	0.00021	12.28%
Barium	mg/L	0.102	0.0992	2.78%
Cobalt	mg/L	0.00117	0.00118	0.85%
<b>GC-AP-MW-17</b>				
<b>Sample Date = 5/17/2023</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Boron	mg/L	2.48	2.45	1.22%
Calcium	mg/L	147	141	4.17%
Chloride	mg/L	10	9.98	0.20%
Fluoride	mg/L	0.535	0.588	9.44%
Sulfate	mg/L	122	109	11.26%
Arsenic	mg/L	1.06	1.07	0.94%
Barium	mg/L	0.291	0.281	3.50%
Cobalt	mg/L	0.00834	0.00866	3.77%
Lithium	mg/L	0.708	0.69	2.58%
Molybdenum	mg/L	0.0497	0.0496	0.20%
<b>Sample Date = 10/23/2023</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Boron	mg/L	2.21	2.22	0.45%
Calcium	mg/L	147	164	10.93%
Chloride	mg/L	10	9.96	0.40%
Fluoride	mg/L	0.515	0.514	0.19%
Sulfate	mg/L	97.3	94.1	3.34%
Arsenic	mg/L	0.895	0.892	0.34%
Barium	mg/L	0.26	0.263	1.15%
Cobalt	mg/L	0.00717	0.00716	0.14%
Lithium	mg/L	0.655	0.667	1.82%
Molybdenum	mg/L	0.0426	0.0422	0.94%



**Table 4a. Relative Percent Difference (RPD) Calculations**

Plant Greene County Ash Pond  
05/15/2023 - 10/31/2023

<b>GC-AP-MW-46HO</b>				
<b>Sample Date = 5/17/2023</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Boron	mg/L	0.321	0.319	0.63%
Calcium	mg/L	50.2	52.4	4.29%
Chloride	mg/L	5.62	5.59	0.54%
Fluoride	mg/L	0.181	0.177	2.24%
Sulfate	mg/L	93	89.9	3.39%
Arsenic	mg/L	0.00029	0.00027	4.64%
Barium	mg/L	0.0578	0.0589	1.89%
Cobalt	mg/L	0.00276	0.00273	1.09%
Lithium	mg/L	0.108	0.11	1.84%
Molybdenum	mg/L	0.0651	0.0646	0.77%
<b>GC-AP-MW-52HO</b>				
<b>Sample Date = 5/15/2023</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Boron	mg/L	1.54	1.55	0.65%
Calcium	mg/L	87.5	87.3	0.23%
Chloride	mg/L	74.2	75.8	2.13%
Sulfate	mg/L	51.8	53.3	2.85%
Arsenic	mg/L	0.00022	0.00026	16.84%
Barium	mg/L	0.203	0.204	0.49%
Cobalt	mg/L	0.011	0.0108	1.84%
<b>Sample Date = 10/18/2023</b>				
<b>Analyte</b>	<b>Units</b>	<b>Original Result</b>	<b>Duplicate Result</b>	<b>RPD (%)</b>
Boron	mg/L	1.46	1.47	0.68%
Calcium	mg/L	91.2	96.1	5.23%
Chloride	mg/L	85.7	91	6.00%
Fluoride	mg/L	0.0487	0.0499	2.43%
Sulfate	mg/L	84.2	82.8	1.68%
Barium	mg/L	0.204	0.21	2.90%
Cobalt	mg/L	0.0122	0.0122	0.00%

Notes:

1. The RPD calculations presented are for analyte pairs where original and duplicate results are valid, unqualified detections.
2. RPD calculation results less than or equal to 20% are considered acceptable.
3. Results greater than 20% are given data validation flags to indicate RPD criteria failure. Communication to sampling team and lab may be necessary to explore nature of RPD failure(s).



## Table 4b. - Field QC: Blank Detections

Plant Greene County Ash Pond  
05/15/2023 - 11/01/2023

Parameters Detected Above MDL					
Sample Date	QC Location	Parameter	Blank Concentration	Units	MDL
05/30/2023	FB-4	Fluoride	0.062 J	mg/L	0.06
10/18/2023	FB-1	Chromium	0.00025 J	mg/L	0.0002
05/31/2023	FB-2	Chromium	0.00023 J	mg/L	0.0002
05/30/2023	FB-4	Chromium	0.00021 J	mg/L	0.0002
05/17/2023	FB-1	Chromium	0.00027 J	mg/L	0.0002
05/15/2023	FB-1	Chromium	0.00023 J	mg/L	0.0002
05/15/2023	EB-1	Chromium	0.00024 J	mg/L	0.0002

Notes:

1. Lab qualifiers have been appended to result when applicable
2. MDL = Method Detection Limit
3. Only Appendix 4 Constituents were compared and validated. Radium data was not validated.
4. mg/L = milligrams per liter



## Table 5. Summary of Background Levels and Groundwater Protection Standards

### Plant Greene County Ash Pond

Appendix IV Analytes			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.001015	0.006
Arsenic	mg/L	0.00045	0.01
Barium	mg/L	0.222	2
Beryllium	mg/L	0.000453	0.004
Cadmium	mg/L	0.000536	0.005
Chromium	mg/L	0.000995	0.1
Cobalt	mg/L	0.0019	0.0167
Fluoride	mg/L	0.0935	4
Lead	mg/L	7E-05	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.000179	0.1
Selenium	mg/L	0.00139	0.05
Thallium	mg/L	0.000203	0.002
Combined Radium 226 + 228	pCi/L		5

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. Background concentrations/limits are used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and ADEM Rule 335-13-15-.06(h).
4. GWPS are generally updated on a 2 year basis which began in the Fall of 2019 (Fall 2019, Fall 2021, etc).



## Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary  
Plant Greene County Ash Pond  
05/15/2023 - 05/31/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Upgradient	GC-AP-MW-23	05/16/2023	152.7	6	125.76	6.09	18.41	1.89
Upgradient	GC-AP-MW-24	05/16/2023	287.17	3.35	203.17	4.8	19.32	1.05
Upgradient	GC-AP-MW-26	05/30/2023	76.31	2.45	328.58	5.07	18.17	1.02
Upgradient	GC-AP-MW-27	05/30/2023	33.85	6.49	377.38	4.65	19.01	1.28
Upgradient	GC-AP-MW-28	05/30/2023	35.83	7.77	371.49	5.04	18.41	1.04
Upgradient	GC-AP-MW-29	05/30/2023	14.87	8.73	354.3	4.82	18.07	0.95
Upgradient	GC-AP-MW-30	05/30/2023	28.71	6.16	224.09	5.15	18.21	1.66
Downgradient	GC-AP-MW-1	05/16/2023	1174.11	0.8	22.09	5.45	20.33	4.37
Downgradient	GC-AP-MW-10	05/24/2023	750.03	0.65	-73.57	6.59	19.62	3.38
Downgradient	GC-AP-MW-11	05/17/2023	524.43	0.8	13.12	6.21	21.16	2.11
Downgradient	GC-AP-MW-12	05/30/2023	434.15	0.93	128.25	6.87	20.91	1.85
Downgradient	GC-AP-MW-13	05/31/2023	469.55	2.55	-2.64	6.37	20.08	4.1
Downgradient	GC-AP-MW-14	05/24/2023	968.17	0.43	-60.12	6.4	19.62	7.63
Downgradient	GC-AP-MW-15	05/23/2023	642.6	0.65	61.92	6.25	18.63	1.48
Downgradient	GC-AP-MW-16	05/31/2023	805.3	0.22	-24.04	6.52	19.53	7.7
Downgradient	GC-AP-MW-17	05/17/2023	1114.52	0.2	-100.58	6.71	20.68	2.2
Downgradient	GC-AP-MW-18	05/22/2023	631.86	0.2	-4.46	6.1	20.44	3.26
Downgradient	GC-AP-MW-2	05/17/2023	1348.39	0.56	66.19	5.79	20.09	1.8
Downgradient	GC-AP-MW-21	05/30/2023	366.65	1.2	163.25	6.03	21.31	1.2
Downgradient	GC-AP-MW-25	05/30/2023	322.91	0.55	146.91	5.45	20.83	0.46

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 05/15/2023 - 05/31/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Downgradient	GC-AP-MW-3	05/17/2023	613.65	0.75	-32.32	5.94	20.05	1.08
Downgradient	GC-AP-MW-31	05/23/2023	73.71	1.86	91.82	5.67	17.6	1.81
Downgradient	GC-AP-MW-32	05/22/2023	71.32	3.53	185.55	5.98	20.4	2.97
Downgradient	GC-AP-MW-33	05/22/2023	102.9	4.2	308.66	4.58	18.86	2.17
Downgradient	GC-AP-MW-5	05/17/2023	810.34	0.68	-76.31	6.64	19.13	1.8
Downgradient	GC-AP-MW-6	05/30/2023	1144.28	0.52	44.26	6.5	20.43	0.16
Downgradient	GC-AP-MW-7	05/30/2023	1482.66	0.37	75.18	6.42	19.27	1.52
Downgradient	GC-AP-MW-8	05/30/2023	1065.39	0.37	35.42	6.62	19.56	0.16
Downgradient	GC-AP-MW-9	05/30/2023	1013.88	0.29	-51.21	6.38	19.75	0.12
Horiz. Delineation	GC-AP-MW-34HA	05/31/2023	170.55	1.75	175.87	5.63	21.48	1.22
Horiz. Delineation	GC-AP-MW-35H	05/23/2023	136.25	7.55	156.5	6.26	19.35	2.08
Horiz. Delineation	GC-AP-MW-36H	05/22/2023	253.4	0.47	20.14	7.61	22.33	9.96
Horiz. Delineation	GC-AP-MW-37H	05/23/2023	1120.69	0.62	-39.42	6.26	19.96	3.34
Horiz. Delineation	GC-AP-MW-38H	05/23/2023	457.52	3.1	29.75	6.59	19.7	2
Horiz. Delineation	GC-AP-MW-39H	05/24/2023	808.79	0.3	-62.11	6.47	19.52	1.98
Horiz. Delineation	GC-AP-MW-40H	05/31/2023	646.33	0.3	80.49	6.01	18.43	2.98
Horiz. Delineation	GC-AP-MW-41H	05/31/2023	740.97	0.13	-19.49	6.19	19.55	9.08
Horiz. Delineation	GC-AP-MW-42H	05/30/2023	555.77	0.04	-1.1	6.2	20.55	9.21
Horiz. Delineation	GC-AP-MW-43H	05/24/2023	871.81	0	-28.63	6.38	18.94	4.48
Horiz. Delineation	GC-AP-MW-44H	05/16/2023	767.6	0.05	-22.82	6.14	18.1	7.35

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

## Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary  
Plant Greene County Ash Pond  
05/15/2023 - 05/31/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Horiz. Delineation	GC-AP-MW-45H	05/22/2023	751.63	0.22	23.41	6.65	21	4.77
Horiz. Delineation	GC-AP-MW-46HO	05/17/2023	393.88	0.18	82.77	6.7	19.15	5.89
Horiz. Delineation	GC-AP-MW-47HO	05/22/2023	142.94	1.25	228.48	5.53	20.88	3.96
Horiz. Delineation	GC-AP-MW-48H	05/30/2023	96.83	0.05	250.82	5.45	18.96	1.94
Horiz. Delineation	GC-AP-MW-49H	05/30/2023	340.93	1.58	176.83	5.6	21.7	2.8
Horiz. Delineation	GC-AP-MW-50HO	05/23/2023	392.13	0.06	106.96	6.24	18.53	5.3
Horiz. Delineation	GC-AP-MW-52HO	05/15/2023	882.52	0.23	33.14	6.15	18.33	1.35
Horiz. Delineation	GC-AP-MW-53H	05/30/2023	721.16	0.07	-142.92	6.66	21	9.69
Horiz. Delineation	GC-AP-MW-54H	05/23/2023	619.09	0.05	-110.47	6.92	18.32	6.34
Horiz. Delineation	GC-AP-MW-55HO	05/23/2023	44.87	5.94	307.92	5.05	18.49	6.9
Horiz. Delineation	GC-AP-MW-57H	05/23/2023	256.94	0.06	69.47	6	18.26	3.01
Horiz. Delineation	GC-AP-MW-59HO	05/23/2023	554.29	0.06	106.29	5.78	17.76	8.65
Horiz. Delineation	GC-AP-MW-60HO	05/23/2023	53.58	5.37	265.3	5.26	19.5	4.8
Horiz. Delineation	GC-AP-MW-61HO	05/23/2023	89.91	6.74	220.75	5.99	18.13	6.08
Horiz. Delineation	GC-AP-MW-62HO	05/22/2023	68.6	5.73	232.2	5.81	19.24	8.54
Horiz. Delineation	GC-AP-MW-63HO	05/22/2023	72.28	6.92	289.88	5.05	18.94	4.85
Horiz. Delineation	GC-AP-MW-64HO	05/17/2023	468.99	0.09	47.22	6.86	19.66	4.88
Horiz. Delineation	GC-AP-PZ-4	05/17/2023	1496.6	0.79	109.62	5.34	21.19	2.04

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 05/15/2023 - 05/31/2023

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Upgradient	GC-AP-MW-23	05/16/2023	<0.03	25.4	1.08	0.0935 J	6.09	9.41
Upgradient	GC-AP-MW-24	05/16/2023	<0.03	47.3	3.74	<0.06	4.8	103
Upgradient	GC-AP-MW-26	05/30/2023	<0.03	8.37	2.89	0.0642 J	5.07	16
Upgradient	GC-AP-MW-27	05/30/2023	<0.03	1.27	2.05	0.0734 J	4.65	5.96
Upgradient	GC-AP-MW-28	05/30/2023	<0.03	2.22	1.35	<0.06	5.04	10.1
Upgradient	GC-AP-MW-29	05/30/2023	<0.03	0.238 J	1.27	<0.06	4.82	1.11 J
Upgradient	GC-AP-MW-30	05/30/2023	<0.03	0.503	3.16	<0.06	5.15	1.44 J
Downgradient	GC-AP-MW-1	05/16/2023	0.187	105	40.8	0.144	5.45	578
Downgradient	GC-AP-MW-10	05/24/2023	2.3	108	13.5	0.303	6.59	119
Downgradient	GC-AP-MW-11	05/17/2023	0.691	57.8	18.8	0.157	6.21	150
Downgradient	GC-AP-MW-12	05/30/2023	0.306	54.5	11.7	0.18	6.87	106
Downgradient	GC-AP-MW-13	05/31/2023	0.263	65.1	4.19	0.102 J	6.37	162
Downgradient	GC-AP-MW-14	05/24/2023	1.82	119	10	0.258	6.4	178
Downgradient	GC-AP-MW-15	05/23/2023	0.935	92.5	8.99	0.144	6.25	131
Downgradient	GC-AP-MW-16	05/31/2023	2.09	108	8.96	0.284	6.52	42.8
Downgradient	GC-AP-MW-17	05/17/2023	2.48	147	10	0.535	6.71	122
Downgradient	GC-AP-MW-18	05/22/2023	1.49	82.1	24.4	0.186	6.1	19.1
Downgradient	GC-AP-MW-2	05/17/2023	0.143	204	9.92	0.0918 J	5.79	689
Downgradient	GC-AP-MW-21	05/30/2023	0.402	36.1	9.44	0.135	6.03	89.4
Downgradient	GC-AP-MW-25	05/30/2023	0.115	13.9	19.9	0.0807 J	5.45	88.1
Downgradient	GC-AP-MW-3	05/17/2023	0.0456 J	56.8	21.6	0.147	5.94	19.6

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## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 05/15/2023 - 05/31/2023

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Downgradient	GC-AP-MW-31	05/23/2023	<0.03	6.75	7.44	<0.06	5.67	3
Downgradient	GC-AP-MW-32	05/22/2023	<0.03	10.2	3.95	<0.06	5.98	2.5
Downgradient	GC-AP-MW-33	05/22/2023	<0.03	2.52	4.53	<0.06	4.58	15.5
Downgradient	GC-AP-MW-5	05/17/2023	0.515	111	8.4	0.24	6.64	163
Downgradient	GC-AP-MW-6	05/30/2023	1.09	138	39.4	0.193	6.5	210
Downgradient	GC-AP-MW-7	05/30/2023	0.0498 J	140	208	0.111 J	6.42	236
Downgradient	GC-AP-MW-8	05/30/2023	0.794	87	76.6	0.179	6.62	69.5
Downgradient	GC-AP-MW-9	05/30/2023	1.05	91.1	105	0.127	6.38	135
Horiz. Delineation	GC-AP-MW-34HA	05/31/2023	<0.03	15.6	6.86	<0.06	5.63	23.2
Horiz. Delineation	GC-AP-MW-35H	05/23/2023	<0.03	22.1	2.92	0.116 J	6.26	25.2
Horiz. Delineation	GC-AP-MW-36H	05/22/2023	0.143	0.908	2.34	0.356	7.61	10.9
Horiz. Delineation	GC-AP-MW-37H	05/23/2023	0.159	158	12.9	0.141	6.26	374
Horiz. Delineation	GC-AP-MW-38H	05/23/2023	0.071 J	110	4.23	0.144	6.59	32.7
Horiz. Delineation	GC-AP-MW-39H	05/24/2023	2.19	126	6.51	0.442	6.47	26.2
Horiz. Delineation	GC-AP-MW-40H	05/31/2023	0.536	90.2	6.63	0.105 J	6.01	251
Horiz. Delineation	GC-AP-MW-41H	05/31/2023	0.56	127	13.3	0.0663 J	6.19	292
Horiz. Delineation	GC-AP-MW-42H	05/30/2023	1.58	70.6	16.6	0.089 J	6.2	124
Horiz. Delineation	GC-AP-MW-43H	05/24/2023	1.21	114	30.5	0.126	6.38	103
Horiz. Delineation	GC-AP-MW-44H	05/16/2023	0.201	132	14.9	0.114 J	6.14	308
Horiz. Delineation	GC-AP-MW-45H	05/22/2023	0.536	110	8.49	0.154	6.65	247
Horiz. Delineation	GC-AP-MW-46HO	05/17/2023	0.321	50.2	5.62	0.181	6.7	93

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## Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary  
Plant Greene County Ash Pond  
05/15/2023 - 05/31/2023

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Horiz. Delineation	GC-AP-MW-47HO	05/22/2023	0.0956 J	13.2	3.95	<0.06	5.53	34.7
Horiz. Delineation	GC-AP-MW-48H	05/30/2023	0.0653 J	9.8	2.77	0.087 J	5.45	25
Horiz. Delineation	GC-AP-MW-49H	05/30/2023	0.413	29.6	8.09	0.0965 J	5.6	127
Horiz. Delineation	GC-AP-MW-50HO	05/23/2023	0.336	51.5	14.1	0.135	6.24	98.9
Horiz. Delineation	GC-AP-MW-52HO	05/15/2023	1.54	87.5	74.2	0.104 J	6.15	51.8
Horiz. Delineation	GC-AP-MW-53H	05/30/2023	0.435	78.7	12.7	0.167	6.66	74.2
Horiz. Delineation	GC-AP-MW-54H	05/23/2023	0.335	106	5.71	0.258	6.92	80
Horiz. Delineation	GC-AP-MW-55HO	05/23/2023	<0.03	2.01	2.98	<0.06	5.05	5.78
Horiz. Delineation	GC-AP-MW-57H	05/23/2023	0.109	24.4	11.4	0.101 J	6	53.6
Horiz. Delineation	GC-AP-MW-59HO	05/23/2023	0.197	77.5	8.54	0.0764 J	5.78	199
Horiz. Delineation	GC-AP-MW-60HO	05/23/2023	<0.03	3.14	3.7	<0.06	5.26	6.96
Horiz. Delineation	GC-AP-MW-61HO	05/23/2023	<0.03	15.4	2.16	0.0836 J	5.99	8.72
Horiz. Delineation	GC-AP-MW-62HO	05/22/2023	<0.03	9.84	2.05	0.0868 J	5.81	13.4
Horiz. Delineation	GC-AP-MW-63HO	05/22/2023	0.0326 J	8.28	2.59	<0.06	5.05	21.2
Horiz. Delineation	GC-AP-MW-64HO	05/17/2023	0.464	65.1	9.97	0.253	6.86	130
Horiz. Delineation	GC-AP-PZ-4	05/17/2023	0.316	207	7.79	0.0997 J	5.34	840

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## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 05/15/2023 - 05/31/2023

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Upgradient	GC-AP-MW-23	05/16/2023	<0.00071	<0.000112	0.0322	<0.000406	<6.8e-005	0.000304 J	<6.8e-005	0.0935 J
Upgradient	GC-AP-MW-24	05/16/2023	<0.00071	0.000269	0.0673	<0.000406	<6.8e-005	0.000248 J	0.000596	<0.06
Upgradient	GC-AP-MW-26	05/30/2023	<0.00071	<0.000112	0.0393	<0.000406	<6.8e-005	0.00028 J	0.000497	0.0642 J
Upgradient	GC-AP-MW-27	05/30/2023	<0.00071	<0.000112	0.0747	<0.000406	0.000188 J	0.000287 J	0.00012 J	0.0734 J
Upgradient	GC-AP-MW-28	05/30/2023	<0.00071	<0.000112	0.179	<0.000406	0.000478	0.000631 J	0.000213	<0.06
Upgradient	GC-AP-MW-29	05/30/2023	<0.00071	<0.000112	0.0452	<0.000406	0.000158 J	0.000345 J	0.00097	<0.06
Upgradient	GC-AP-MW-30	05/30/2023	<0.00071	<0.000112	0.0256	<0.000406	<6.8e-005	0.000347 J	<6.8e-005	<0.06
Downgradient	GC-AP-MW-1	05/16/2023	<0.00071	0.012	0.0336	<0.000406	8.91e-005 J	0.000326 J	0.236	0.144
Downgradient	GC-AP-MW-10	05/24/2023	<0.00071	0.0123	0.269	<0.000406	<6.8e-005	0.000338 J	0.0176	0.303
Downgradient	GC-AP-MW-11	05/17/2023	<0.00071	0.00314	0.0705	<0.000406	<6.8e-005	0.000293 J	0.0296	0.157
Downgradient	GC-AP-MW-12	05/30/2023	<0.00071	0.00029	0.0309	<0.000406	<6.8e-005	<0.000203	0.000536	0.18
Downgradient	GC-AP-MW-13	05/31/2023	0.00192	0.00639	0.0536	<0.000406	<6.8e-005	0.000232 J	0.00348	0.102 J
Downgradient	GC-AP-MW-14	05/24/2023	<0.00071	0.0277	0.127	<0.000406	<6.8e-005	0.000305 J	0.0346	0.258
Downgradient	GC-AP-MW-15	05/23/2023	<0.00071	0.000389	0.0433	<0.000406	0.00019 J	<0.000203	0.0182	0.144
Downgradient	GC-AP-MW-16	05/31/2023	<0.00071	0.0855	0.119	<0.000406	<6.8e-005	0.000327 J	0.0136	0.284
Downgradient	GC-AP-MW-17	05/17/2023	<0.00071	1.06	0.291	<0.000406	<6.8e-005	0.0003 J	0.00834	0.535
Downgradient	GC-AP-MW-18	05/22/2023	<0.00071	0.0491	0.0709	<0.000406	<6.8e-005	0.000293 J	0.019	0.186
Downgradient	GC-AP-MW-2	05/17/2023	<0.00071	0.00431	0.0298	<0.000406	7.74e-005 J	0.000305 J	0.0394	0.0918 J
Downgradient	GC-AP-MW-21	05/30/2023	<0.00071	<0.000112	0.0604	<0.000406	0.000138 J	0.000232 J	0.00318	0.135
Downgradient	GC-AP-MW-25	05/30/2023	<0.00071	0.000217	0.0824	<0.000406	0.0001 J	0.000249 J	0.016	0.0807 J
Downgradient	GC-AP-MW-3	05/17/2023	<0.00071	0.0116	0.153	<0.000406	<6.8e-005	0.000301 J	0.000658	0.147

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## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 05/15/2023 - 05/31/2023

EPA Appendix IV Set								
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L
Upgradient	GC-AP-MW-23	05/16/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	0.00102	<6.8e-005
Upgradient	GC-AP-MW-24	05/16/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	0.000692 J	<6.8e-005
Upgradient	GC-AP-MW-26	05/30/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Upgradient	GC-AP-MW-27	05/30/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Upgradient	GC-AP-MW-28	05/30/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Upgradient	GC-AP-MW-29	05/30/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Upgradient	GC-AP-MW-30	05/30/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-1	05/16/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	0.000809 J	9.81e-005 J
Downgradient	GC-AP-MW-10	05/24/2023	<6.8e-005	0.223	<0.0003	0.00638 J	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-11	05/17/2023	<6.8e-005	0.124	<0.0003	0.017	<0.000508	7.34e-005 J
Downgradient	GC-AP-MW-12	05/30/2023	<6.8e-005	0.116	<0.0003	0.058	0.00122	<6.8e-005
Downgradient	GC-AP-MW-13	05/31/2023	<6.8e-005	0.371	<0.0003	0.0119	0.0195	0.000342
Downgradient	GC-AP-MW-14	05/24/2023	<6.8e-005	0.578	<0.0003	0.0152	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-15	05/23/2023	<6.8e-005	0.556	<0.0003	<0.005075	<0.000508	8.8e-005 J
Downgradient	GC-AP-MW-16	05/31/2023	0.000145 J	0.603	<0.0003	<0.005075	<0.000508	0.000316
Downgradient	GC-AP-MW-17	05/17/2023	<6.8e-005	0.708	<0.0003	0.0497	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-18	05/22/2023	<6.8e-005	0.286	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-2	05/17/2023	0.000464	<0.007105	<0.0003	<0.005075	<0.000508	9.43e-005 J
Downgradient	GC-AP-MW-21	05/30/2023	<6.8e-005	0.0683	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-25	05/30/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-3	05/17/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	0.000551 J	<6.8e-005

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## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 05/15/2023 - 05/31/2023

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Downgradient	GC-AP-MW-31	05/23/2023	<0.00071	<0.000112	0.0361	<0.000406	<6.8e-005	0.000293 J	0.000627	<0.06
Downgradient	GC-AP-MW-32	05/22/2023	<0.00071	<0.000112	0.0152	<0.000406	<6.8e-005	0.000355 J	<6.8e-005	<0.06
Downgradient	GC-AP-MW-33	05/22/2023	<0.00071	0.000242	0.102	<0.000406	<6.8e-005	0.000477 J	0.00117	<0.06
Downgradient	GC-AP-MW-5	05/17/2023	<0.00071	0.405	0.136	<0.000406	<6.8e-005	<0.000203	0.00833	0.24
Downgradient	GC-AP-MW-6	05/30/2023	<0.00071	<0.000112	0.0665	<0.000406	8.05e-005 J	0.000234 J	0.00194	0.193
Downgradient	GC-AP-MW-7	05/30/2023	<0.00071	<0.000112	0.0795	<0.000406	<6.8e-005	0.000284 J	0.00279	0.111 J
Downgradient	GC-AP-MW-8	05/30/2023	<0.00071	0.000274	0.136	<0.000406	<6.8e-005	0.000233 J	0.00504	0.179
Downgradient	GC-AP-MW-9	05/30/2023	<0.00071	0.0107	0.15	<0.000406	<6.8e-005	0.000368 J	0.0258	0.127
Horiz. Delineation	GC-AP-MW-34HA	05/31/2023	<0.00071	<0.000112	0.0539	<0.000406	<6.8e-005	0.000236 J	0.00151	<0.06
Horiz. Delineation	GC-AP-MW-35H	05/23/2023	<0.00071	<0.000112	0.0394	<0.000406	<6.8e-005	0.000525 J	<6.8e-005	0.116 J
Horiz. Delineation	GC-AP-MW-36H	05/22/2023	<0.00071	0.00211	0.0027	<0.000406	<6.8e-005	0.00101 J	0.000322	0.356
Horiz. Delineation	GC-AP-MW-37H	05/23/2023	<0.00071	0.00924	0.0845	<0.000406	<6.8e-005	0.000433 J	0.0147	0.141
Horiz. Delineation	GC-AP-MW-38H	05/23/2023	<0.00071	0.000132 J	0.103	<0.000406	<6.8e-005	0.00043 J	0.000842	0.144
Horiz. Delineation	GC-AP-MW-39H	05/24/2023	<0.00071	0.0595	0.249	<0.000406	<6.8e-005	<0.000203	0.0153	0.442
Horiz. Delineation	GC-AP-MW-40H	05/31/2023	<0.00071	0.000308	0.025	<0.000406	0.000157 J	<0.000203	0.0131	0.105 J
Horiz. Delineation	GC-AP-MW-41H	05/31/2023	<0.00071	0.00185	0.124	<0.000406	<6.8e-005	0.000386 J	0.018	0.0663 J
Horiz. Delineation	GC-AP-MW-42H	05/30/2023	<0.00071	0.00455	0.133	<0.000406	0.000152 J	0.000242 J	0.05	0.089 J
Horiz. Delineation	GC-AP-MW-43H	05/24/2023	<0.00071	0.0113	0.162	<0.000406	<6.8e-005	0.00022 J	0.0181	0.126
Horiz. Delineation	GC-AP-MW-44H	05/16/2023	<0.00071	0.002	0.0481	<0.000406	0.00019 J	0.000387 J	0.25	0.114 J
Horiz. Delineation	GC-AP-MW-45H	05/22/2023	<0.00071	0.000837	0.0532	<0.000406	0.000125 J	0.000234 J	0.0097	0.154
Horiz. Delineation	GC-AP-MW-46HO	05/17/2023	<0.00071	0.000287	0.0578	<0.000406	<6.8e-005	<0.000203	0.00276	0.181

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## Table 6. First Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 05/15/2023 - 05/31/2023

EPA Appendix IV Set								
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L
Downgradient	GC-AP-MW-31	05/23/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-32	05/22/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-33	05/22/2023	0.000193 J	<0.007105	<0.0003	<0.005075	0.000941 J	<6.8e-005
Downgradient	GC-AP-MW-5	05/17/2023	<6.8e-005	0.0817	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-6	05/30/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-7	05/30/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-8	05/30/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-9	05/30/2023	<6.8e-005	0.0188 J	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-34HA	05/31/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-35H	05/23/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	0.00285	<6.8e-005
Horiz. Delineation	GC-AP-MW-36H	05/22/2023	0.000346	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-37H	05/23/2023	<6.8e-005	0.00795 J	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-38H	05/23/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	0.0163	<6.8e-005
Horiz. Delineation	GC-AP-MW-39H	05/24/2023	<6.8e-005	0.378	<0.0003	<0.005075	<0.000508	0.000665
Horiz. Delineation	GC-AP-MW-40H	05/31/2023	<6.8e-005	0.738	<0.0003	<0.005075	<0.000508	7.59e-005 J
Horiz. Delineation	GC-AP-MW-41H	05/31/2023	<6.8e-005	0.0792	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-42H	05/30/2023	<6.8e-005	0.029	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-43H	05/24/2023	<6.8e-005	0.184	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-44H	05/16/2023	7.31e-005 J	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-45H	05/22/2023	<6.8e-005	0.47	<0.0003	0.0593	<0.000508	0.000273
Horiz. Delineation	GC-AP-MW-46HO	05/17/2023	<6.8e-005	0.108	<0.0003	0.0651	<0.000508	<6.8e-005

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## Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary  
Plant Greene County Ash Pond  
05/15/2023 - 05/31/2023

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Horiz. Delineation	GC-AP-MW-47HO	05/22/2023	<0.00071	<0.000112	0.0229	<0.000406	<6.8e-005	<0.000203	7.55e-005 J	<0.06
Horiz. Delineation	GC-AP-MW-48H	05/30/2023	<0.00071	<0.000112	0.024	<0.000406	8.52e-005 J	<0.000203	0.000144 J	0.087 J
Horiz. Delineation	GC-AP-MW-49H	05/30/2023	<0.00071	0.000469	0.0497	<0.000406	0.000412	0.000292 J	0.00769	0.0965 J
Horiz. Delineation	GC-AP-MW-50HO	05/23/2023	<0.00071	0.00025	0.0707	<0.000406	0.000413	<0.000203	0.00702	0.135
Horiz. Delineation	GC-AP-MW-52HO	05/15/2023	<0.00071	0.000223	0.203	<0.000406	0.00018 J	0.000224 J	0.011	0.104 J
Horiz. Delineation	GC-AP-MW-53H	05/30/2023	<0.00071	0.242	0.391	<0.000406	<6.8e-005	0.000512 J	0.00406	0.167
Horiz. Delineation	GC-AP-MW-54H	05/23/2023	<0.00071	0.389	0.244	<0.000406	<6.8e-005	0.000239 J	0.0346	0.258
Horiz. Delineation	GC-AP-MW-55HO	05/23/2023	<0.00071	0.000116 J	0.0302	<0.000406	<6.8e-005	0.000518 J	0.000861	<0.06
Horiz. Delineation	GC-AP-MW-57H	05/23/2023	<0.00071	0.00126	0.128	<0.000406	<6.8e-005	0.000406 J	0.0208	0.101 J
Horiz. Delineation	GC-AP-MW-59HO	05/23/2023	<0.00071	0.000656	0.0543	<0.000406	8.64e-005 J	<0.000203	0.0275	0.0764 J
Horiz. Delineation	GC-AP-MW-60HO	05/23/2023	<0.00071	<0.000112	0.042	<0.000406	<6.8e-005	<0.000203	0.000587	<0.06
Horiz. Delineation	GC-AP-MW-61HO	05/23/2023	<0.00071	0.000278	0.0436	<0.000406	<6.8e-005	0.000502 J	0.000335	0.0836 J
Horiz. Delineation	GC-AP-MW-62HO	05/22/2023	<0.00071	0.000284	0.0767	<0.000406	7.46e-005 J	0.000466 J	0.000552	0.0868 J
Horiz. Delineation	GC-AP-MW-63HO	05/22/2023	<0.00071	<0.000112	0.0524	<0.000406	7.77e-005 J	<0.000203	0.000174 J	<0.06
Horiz. Delineation	GC-AP-MW-64HO	05/17/2023	<0.00071	0.000335	0.0753	<0.000406	0.000154 J	0.00046 J	0.00301	0.253
Horiz. Delineation	GC-AP-PZ-4	05/17/2023	<0.00071	0.00189	0.0633	<0.000406	0.000254	0.000317 J	0.755	0.0997 J

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## Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary  
Plant Greene County Ash Pond  
05/15/2023 - 05/31/2023

EPA Appendix IV Set								
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L
Horiz. Delineation	GC-AP-MW-47HO	05/22/2023	<6.8e-005	0.0366	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-48H	05/30/2023	<6.8e-005	0.0482	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-49H	05/30/2023	<6.8e-005	0.0691	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-50HO	05/23/2023	0.000183 J	0.0737	<0.0003	<0.005075	<0.000508	9.06e-005 J
Horiz. Delineation	GC-AP-MW-52HO	05/15/2023	7.05e-005 J	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-53H	05/30/2023	0.000141 J	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-54H	05/23/2023	<6.8e-005	0.0523	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-55HO	05/23/2023	8.54e-005 J	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-57H	05/23/2023	0.000166 J	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-59HO	05/23/2023	8.18e-005 J	<0.007105	<0.0003	<0.005075	<0.000508	0.000118 J
Horiz. Delineation	GC-AP-MW-60HO	05/23/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	0.00114	<6.8e-005
Horiz. Delineation	GC-AP-MW-61HO	05/23/2023	0.000122 J	<0.007105	<0.0003	<0.005075	0.000605 J	<6.8e-005
Horiz. Delineation	GC-AP-MW-62HO	05/22/2023	0.000234	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-63HO	05/22/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-64HO	05/17/2023	8.23e-005 J	0.156	<0.0003	0.072	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-PZ-4	05/17/2023	0.000334	<0.007105	<0.0003	<0.005075	0.00189	8.39e-005 J

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## Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary  
Plant Greene County Ash Pond  
05/15/2023 - 05/31/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Magnesium Total mg/L	Manganese Total mg/L	Sodium mg/L	Calcium mg/L	Iron Total mg/L
Upgradient	GC-AP-MW-23	05/16/2023	8.05	3.76	<1	2.02	0.000856 J	2.23	25.4	0.0212 J
Upgradient	GC-AP-MW-24	05/16/2023	11.9	5.58	<1	4.37	0.153	2.97	47.3	<0.00812
Upgradient	GC-AP-MW-26	05/30/2023	11.1	5.19	<1	1.15	0.0553	4.07	8.37	<0.00812
Upgradient	GC-AP-MW-27	05/30/2023	10.5	4.92	<1	0.673	0.0176	3.06	1.27	<0.00812
Upgradient	GC-AP-MW-28	05/30/2023	7.77	3.63	<1	1.5	0.0531	1.32	2.22	<0.00812
Upgradient	GC-AP-MW-29	05/30/2023	8.47	3.96	<1	0.306 J	0.0148	1.03	0.238 J	<0.00812
Upgradient	GC-AP-MW-30	05/30/2023	10.1	4.74	<1	0.148 J	0.00329	4.81	0.503	0.0101 J
Downgradient	GC-AP-MW-1	05/16/2023	11.1	5.2	2.1	27.6	13.2	36.2	105	166
Downgradient	GC-AP-MW-10	05/24/2023	10.9	5.1	2.95	21.4	2.92	31.5	108	21.7
Downgradient	GC-AP-MW-11	05/17/2023	5.22	2.44	<1	15.9	7.54	33.6	57.8	1.73
Downgradient	GC-AP-MW-12	05/30/2023	5.61	2.62	<1	14.3	1.07	20.8	54.5	<0.00812
Downgradient	GC-AP-MW-13	05/31/2023	7.02	3.28	1.84 J	14.6	0.761	9.78	65.1	3.84
Downgradient	GC-AP-MW-14	05/24/2023	14	6.54	2.45	28.5	5.43	32.6	119	58.1
Downgradient	GC-AP-MW-15	05/23/2023	11.8	5.52	1.19 J	18.8	2.27	27.9	92.5	1.17
Downgradient	GC-AP-MW-16	05/31/2023	13.1	6.1	1.5 J	24.2	3.45	36.2	108	17.3
Downgradient	GC-AP-MW-17	05/17/2023	20	9.36	1.4 J	31.2	2.04	47.4	147	38.5
Downgradient	GC-AP-MW-18	05/22/2023	17.5	8.19	1.93 J	12.6	3.02	47.2	82.1	16.6
Downgradient	GC-AP-MW-2	05/17/2023	11	5.12	1.62 J	27.1	7.33	32.1	204	82.4
Downgradient	GC-AP-MW-21	05/30/2023	7.51	3.51	<1	11.2	2.99	22.6	36.1	0.0348 J
Downgradient	GC-AP-MW-25	05/30/2023	23.1	10.8	<1	8.8	0.42	39.7	13.9	1.03

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## Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary  
Plant Greene County Ash Pond  
05/15/2023 - 05/31/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Potassium mg/L	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L	Bicarbonate Alkalinity as CaCO3 mg CaCO3/L	Sulfide mg/L	Chloride mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L
Upgradient	GC-AP-MW-23	05/16/2023	0.8	64.7	NC	64.7	0	1.08	<0.2	9.41
Upgradient	GC-AP-MW-24	05/16/2023	1.41	16.8	NC	16.8	0	3.74	0.497	103
Upgradient	GC-AP-MW-26	05/30/2023	0.552	16.1	NC	16.1	0	2.89	<0.2	16
Upgradient	GC-AP-MW-27	05/30/2023	0.959	5.64	NC	5.64	--	2.05	0.603	5.96
Upgradient	GC-AP-MW-28	05/30/2023	1.59	2.74	NC	2.74	0	1.35	0.717	10.1
Upgradient	GC-AP-MW-29	05/30/2023	1	4.56	NC	4.56	0	1.27	0.474	1.11 J
Upgradient	GC-AP-MW-30	05/30/2023	0.617	4.22	NC	4.22	0	3.16	0.964	1.44 J
Downgradient	GC-AP-MW-1	05/16/2023	3.38	44	NC	44	0	40.8	0.322	578
Downgradient	GC-AP-MW-10	05/24/2023	8.09	271	NC	271	0	13.5	<0.2	119
Downgradient	GC-AP-MW-11	05/17/2023	6.9	116	NC	116	0	18.8	<0.2	150
Downgradient	GC-AP-MW-12	05/30/2023	6.24	121	NC	121	0	11.7	<0.2	106
Downgradient	GC-AP-MW-13	05/31/2023	6.44	88.4	NC	88.3	0	4.19	0.775	162
Downgradient	GC-AP-MW-14	05/24/2023	12.2	321	NC	321	0	10	0.212 J	178
Downgradient	GC-AP-MW-15	05/23/2023	10.3	197	NC	197	0	8.99	<0.2	131
Downgradient	GC-AP-MW-16	05/31/2023	13.4	395	0.774	394	0	8.96	<0.2	42.8
Downgradient	GC-AP-MW-17	05/17/2023	14	455	0.978	454	0	10	<0.2	122
Downgradient	GC-AP-MW-18	05/22/2023	5.78	280	NC	280	0	24.4	<0.2	19.1
Downgradient	GC-AP-MW-2	05/17/2023	6.69	39.9	NC	39.9	0	9.92	0.258 J	689
Downgradient	GC-AP-MW-21	05/30/2023	5.53	92.8	NC	92.7	0	9.44	0.34	89.4
Downgradient	GC-AP-MW-25	05/30/2023	0.772	43.2	NC	43.2	0	19.9	<0.2	88.1

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### Analytical Results Summary Plant Greene County Ash Pond 05/15/2023 - 05/31/2023

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Aluminum mg/L
Upgradient	GC-AP-MW-23	05/16/2023	0.0241 J
Upgradient	GC-AP-MW-24	05/16/2023	0.0325 J
Upgradient	GC-AP-MW-26	05/30/2023	0.0608
Upgradient	GC-AP-MW-27	05/30/2023	0.0208 J
Upgradient	GC-AP-MW-28	05/30/2023	0.0477 J
Upgradient	GC-AP-MW-29	05/30/2023	0.0231 J
Upgradient	GC-AP-MW-30	05/30/2023	<0.009135
Downgradient	GC-AP-MW-1	05/16/2023	0.0446 J
Downgradient	GC-AP-MW-10	05/24/2023	0.0145 J
Downgradient	GC-AP-MW-11	05/17/2023	<0.009135
Downgradient	GC-AP-MW-12	05/30/2023	<0.009135
Downgradient	GC-AP-MW-13	05/31/2023	<0.009135
Downgradient	GC-AP-MW-14	05/24/2023	<0.009135
Downgradient	GC-AP-MW-15	05/23/2023	<0.009135
Downgradient	GC-AP-MW-16	05/31/2023	<0.009135
Downgradient	GC-AP-MW-17	05/17/2023	<0.009135
Downgradient	GC-AP-MW-18	05/22/2023	<0.009135
Downgradient	GC-AP-MW-2	05/17/2023	0.019 J
Downgradient	GC-AP-MW-21	05/30/2023	<0.009135
Downgradient	GC-AP-MW-25	05/30/2023	0.0306 J

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## Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary  
Plant Greene County Ash Pond  
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General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Magnesium Total mg/L	Manganese Total mg/L	Sodium mg/L	Calcium mg/L	Iron Total mg/L
Downgradient	GC-AP-MW-3	05/17/2023	9.59	4.48	8.97	4.28	0.336	30.5	56.8	57.3
Downgradient	GC-AP-MW-31	05/23/2023	9.8	4.58	<1	1.37	0.00848	6.3	6.75	0.0171 J
Downgradient	GC-AP-MW-32	05/22/2023	11.6	5.43	<1	0.727	0.000328 J	4.09	10.2	<0.00812
Downgradient	GC-AP-MW-33	05/22/2023	6.7	3.13	<1	3.53	0.0204	6.95	2.52	<0.00812
Downgradient	GC-AP-MW-5	05/17/2023	17.6	8.24	1.56 J	21.5	1.95	20.5	111	38.1
Downgradient	GC-AP-MW-6	05/30/2023	22.3	10.4	1.1 J	22.5	0.467	147	138	0.452
Downgradient	GC-AP-MW-7	05/30/2023	19.8	9.27	1.1 J	15.3	0.944	237	140	0.13
Downgradient	GC-AP-MW-8	05/30/2023	14.5	6.76	1.28 J	14.9	1.07	200	87	0.0377 J
Downgradient	GC-AP-MW-9	05/30/2023	10.3	4.8	1.77 J	22.8	7.96	122	91.1	11.4
Horiz. Delineation	GC-AP-MW-34HA	05/31/2023	9.24	4.32	1.29 J	2.2	0.00428	16.7	15.6	<0.00812
Horiz. Delineation	GC-AP-MW-35H	05/23/2023	8.2	3.83	<1	3.01	0.000171 J	3.2	22.1	<0.00812
Horiz. Delineation	GC-AP-MW-36H	05/22/2023	14.1	6.59	<1	0.112 J	0.00363	75.9	0.908	0.385
Horiz. Delineation	GC-AP-MW-37H	05/23/2023	18.7	8.73	9.15	25	5.16	28.6	158	83.9
Horiz. Delineation	GC-AP-MW-38H	05/23/2023	9.1	4.25	1.11 J	6.9	0.118	2.4	110	0.26
Horiz. Delineation	GC-AP-MW-39H	05/24/2023	11.3	5.29	1.81 J	24.9	3.72	29	126	31.2
Horiz. Delineation	GC-AP-MW-40H	05/31/2023	6.87	3.21	<1	22.4	3.26	18.2	90.2	0.618
Horiz. Delineation	GC-AP-MW-41H	05/31/2023	8.9	4.16	1.36 J	15.1	4.37	28.3	127	12.5
Horiz. Delineation	GC-AP-MW-42H	05/30/2023	9.59	4.48	2.2	11.9	4.53	34.1	70.6	15
Horiz. Delineation	GC-AP-MW-43H	05/24/2023	9.54	4.46	1.9 J	31.3	9.75	53.4	114	12.2
Horiz. Delineation	GC-AP-MW-44H	05/16/2023	9.57	4.47	1.05 J	18	7.77	27.7	132	8.8

Notes:

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- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation



**Analytical Results Summary  
Plant Greene County Ash Pond  
05/15/2023 - 05/31/2023**

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Potassium mg/L	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L	Bicarbonate Alkalinity as CaCO3 mg CaCO3/L	Sulfide mg/L	Chloride mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L
Downgradient	GC-AP-MW-3	05/17/2023	0.777	233	NC	233	0	21.6	0.266 J	19.6
Downgradient	GC-AP-MW-31	05/23/2023	1.17	24.5	NC	24.5	0	7.44	0.621	3
Downgradient	GC-AP-MW-32	05/22/2023	0.774	33.3	NC	33.3	0	3.95	0.293 J	2.5
Downgradient	GC-AP-MW-33	05/22/2023	4.84	0.46	NC	NC	0	4.53	4.27	15.5
Downgradient	GC-AP-MW-5	05/17/2023	6.55	242	NC	242	0	8.4	<0.2	163
Downgradient	GC-AP-MW-6	05/30/2023	0.606	400	NC	400	0	39.4	<0.2	210
Downgradient	GC-AP-MW-7	05/30/2023	1.25	291	NC	291	0	208	<0.2	236
Downgradient	GC-AP-MW-8	05/30/2023	0.596	418	NC	418	0	76.6	<0.2	69.5
Downgradient	GC-AP-MW-9	05/30/2023	5.97	262	NC	262	0	105	<0.2	135
Horiz. Delineation	GC-AP-MW-34HA	05/31/2023	0.916	48.6	NC	48.6	0	6.86	1.76	23.2
Horiz. Delineation	GC-AP-MW-35H	05/23/2023	1.48	43.7	NC	43.7	0	2.92	0.793	25.2
Horiz. Delineation	GC-AP-MW-36H	05/22/2023	0.545	130	1.33	129	0	2.34	<0.2	10.9
Horiz. Delineation	GC-AP-MW-37H	05/23/2023	2.53	186	NC	186	0	12.9	0.215 J	374
Horiz. Delineation	GC-AP-MW-38H	05/23/2023	1.96	216	NC	216	0	4.23	0.39	32.7
Horiz. Delineation	GC-AP-MW-39H	05/24/2023	13.1	442	NC	442	0	6.51	<0.2	26.2
Horiz. Delineation	GC-AP-MW-40H	05/31/2023	9.07	81.9	NC	81.9	0	6.63	0.261 J	251
Horiz. Delineation	GC-AP-MW-41H	05/31/2023	6.28	113	NC	113	0	13.3	<0.2	292
Horiz. Delineation	GC-AP-MW-42H	05/30/2023	3.88	157	NC	157	0	16.6	<0.2	124
Horiz. Delineation	GC-AP-MW-43H	05/24/2023	8.86	380	NC	380	0	30.5	<0.2	103
Horiz. Delineation	GC-AP-MW-44H	05/16/2023	2.93	83	NC	83	0	14.9	<0.2	308

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

### Analytical Results Summary Plant Greene County Ash Pond 05/15/2023 - 05/31/2023

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Aluminum mg/L
Downgradient	GC-AP-MW-3	05/17/2023	<0.009135
Downgradient	GC-AP-MW-31	05/23/2023	<0.009135
Downgradient	GC-AP-MW-32	05/22/2023	<0.009135
Downgradient	GC-AP-MW-33	05/22/2023	0.24
Downgradient	GC-AP-MW-5	05/17/2023	<0.009135
Downgradient	GC-AP-MW-6	05/30/2023	<0.009135
Downgradient	GC-AP-MW-7	05/30/2023	<0.009135
Downgradient	GC-AP-MW-8	05/30/2023	<0.009135
Downgradient	GC-AP-MW-9	05/30/2023	<0.009135
Horiz. Delineation	GC-AP-MW-34HA	05/31/2023	<0.009135
Horiz. Delineation	GC-AP-MW-35H	05/23/2023	<0.009135
Horiz. Delineation	GC-AP-MW-36H	05/22/2023	0.292
Horiz. Delineation	GC-AP-MW-37H	05/23/2023	0.0104 J
Horiz. Delineation	GC-AP-MW-38H	05/23/2023	0.00978 J
Horiz. Delineation	GC-AP-MW-39H	05/24/2023	<0.009135
Horiz. Delineation	GC-AP-MW-40H	05/31/2023	<0.009135
Horiz. Delineation	GC-AP-MW-41H	05/31/2023	0.0339 J
Horiz. Delineation	GC-AP-MW-42H	05/30/2023	<0.009135
Horiz. Delineation	GC-AP-MW-43H	05/24/2023	<0.009135
Horiz. Delineation	GC-AP-MW-44H	05/16/2023	0.0891

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## Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary  
Plant Greene County Ash Pond  
05/15/2023 - 05/31/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Magnesium Total mg/L	Manganese Total mg/L	Sodium mg/L	Calcium mg/L	Iron Total mg/L
Horiz. Delineation	GC-AP-MW-45H	05/22/2023	5.91	2.76	1.44 J	26.7	5.73	21.9	110	0.41
Horiz. Delineation	GC-AP-MW-46HO	05/17/2023	4.09	1.91	<1	16.1	3.14	14.1	50.2	0.032 J
Horiz. Delineation	GC-AP-MW-47HO	05/22/2023	6.38	2.98	<1	3.56	0.0261	8.56	13.2	0.0416
Horiz. Delineation	GC-AP-MW-48H	05/30/2023	7.94	3.71	<1	2.55	0.103	3.91	9.8	<0.00812
Horiz. Delineation	GC-AP-MW-49H	05/30/2023	5.61	2.62	<1	9.23	2.78	19.2	29.6	0.28
Horiz. Delineation	GC-AP-MW-50HO	05/23/2023	7.43	3.47	<1	7.18	4.89	25.8	51.5	0.272
Horiz. Delineation	GC-AP-MW-52HO	05/15/2023	8.62	4.03	1.05 J	23.2	10.7	73.6	87.5	0.261
Horiz. Delineation	GC-AP-MW-53H	05/30/2023	14.7	6.89	5.1	11	3.08	20.2	78.7	73
Horiz. Delineation	GC-AP-MW-54H	05/23/2023	15.5	7.25	2.65	19.2	1.81	13.5	106	41.3
Horiz. Delineation	GC-AP-MW-55HO	05/23/2023	11	5.13	<1	1.49	0.00989	3.64	2.01	0.0719
Horiz. Delineation	GC-AP-MW-57H	05/23/2023	11.1	5.19	3.34	7.31	0.895	14	24.4	5.88
Horiz. Delineation	GC-AP-MW-59HO	05/23/2023	6.76	3.16	1.01 J	15.1	12.5	25.6	77.5	0.455
Horiz. Delineation	GC-AP-MW-60HO	05/23/2023	10.4	4.85	<1	0.963	0.00895	5.56	3.14	0.029 J
Horiz. Delineation	GC-AP-MW-61HO	05/23/2023	7.79	3.64	<1	1.26	0.00909	1.73	15.4	0.0513
Horiz. Delineation	GC-AP-MW-62HO	05/22/2023	7.7	3.6	<1	1.15	0.0302	2.15	9.84	0.374
Horiz. Delineation	GC-AP-MW-63HO	05/22/2023	6.38	2.98	<1	1.41	0.0118	2.69	8.28	0.0336 J
Horiz. Delineation	GC-AP-MW-64HO	05/17/2023	6.38	2.98	<1	17	4.58	21.9	65.1	0.0766
Horiz. Delineation	GC-AP-PZ-4	05/17/2023	11	5.14	1.1 J	43.2	14.8	19.6	207	162

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## Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary  
Plant Greene County Ash Pond  
05/15/2023 - 05/31/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Potassium mg/L	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L	Bicarbonate Alkalinity as CaCO3 mg CaCO3/L	Sulfide mg/L	Chloride mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L
Horiz. Delineation	GC-AP-MW-45H	05/22/2023	8.38	118	NC	118	0	8.49	<0.2	247
Horiz. Delineation	GC-AP-MW-46HO	05/17/2023	5.15	115	NC	115	0	5.62	0.715	93
Horiz. Delineation	GC-AP-MW-47HO	05/22/2023	2.8	26	NC	26	0	3.95	0.275 J	34.7
Horiz. Delineation	GC-AP-MW-48H	05/30/2023	2.22	20.5	NC	20.5	0	2.77	0.23 J	25
Horiz. Delineation	GC-AP-MW-49H	05/30/2023	5.23	32.5	NC	32.5	0	8.09	0.377	127
Horiz. Delineation	GC-AP-MW-50HO	05/23/2023	5.48	93.1	NC	93	0	14.1	<0.2	98.9
Horiz. Delineation	GC-AP-MW-52HO	05/15/2023	4.86	272	NC	272	0	74.2	0.443	51.8
Horiz. Delineation	GC-AP-MW-53H	05/30/2023	4.47	262	NC	262	0	12.7	<0.2	74.2
Horiz. Delineation	GC-AP-MW-54H	05/23/2023	7.75	259	NC	259	0	5.71	<0.2	80
Horiz. Delineation	GC-AP-MW-55HO	05/23/2023	1.63	8.84	NC	8.84	0	2.98	<0.2	5.78
Horiz. Delineation	GC-AP-MW-57H	05/23/2023	4.32	65.4	NC	65.4	0	11.4	<0.2	53.6
Horiz. Delineation	GC-AP-MW-59HO	05/23/2023	4.12	58.8	NC	58.8	0	8.54	<0.2	199
Horiz. Delineation	GC-AP-MW-60HO	05/23/2023	1.09	10.8	NC	10.8	0	3.7	<0.2	6.96
Horiz. Delineation	GC-AP-MW-61HO	05/23/2023	1.31	36.5	NC	36.5	0	2.16	<0.2	8.72
Horiz. Delineation	GC-AP-MW-62HO	05/22/2023	0.791	17.1	NC	17.1	0	2.05	0.243 J	13.4
Horiz. Delineation	GC-AP-MW-63HO	05/22/2023	0.871	6.22	NC	6.22	0	2.59	0.234 J	21.2
Horiz. Delineation	GC-AP-MW-64HO	05/17/2023	5.68	115	NC	115	0	9.97	<0.2	130
Horiz. Delineation	GC-AP-PZ-4	05/17/2023	6.7	27.3	NC	27.3	0	7.79	0.414	840

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### Analytical Results Summary Plant Greene County Ash Pond 05/15/2023 - 05/31/2023

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Aluminum mg/L
Horiz. Delineation	GC-AP-MW-45H	05/22/2023	0.0221 J
Horiz. Delineation	GC-AP-MW-46HO	05/17/2023	0.0321 J
Horiz. Delineation	GC-AP-MW-47HO	05/22/2023	0.0255 J
Horiz. Delineation	GC-AP-MW-48H	05/30/2023	<0.009135
Horiz. Delineation	GC-AP-MW-49H	05/30/2023	0.0699
Horiz. Delineation	GC-AP-MW-50HO	05/23/2023	0.0772
Horiz. Delineation	GC-AP-MW-52HO	05/15/2023	<0.009135
Horiz. Delineation	GC-AP-MW-53H	05/30/2023	0.195
Horiz. Delineation	GC-AP-MW-54H	05/23/2023	0.0553
Horiz. Delineation	GC-AP-MW-55HO	05/23/2023	0.0555
Horiz. Delineation	GC-AP-MW-57H	05/23/2023	0.0811
Horiz. Delineation	GC-AP-MW-59HO	05/23/2023	0.0267 J
Horiz. Delineation	GC-AP-MW-60HO	05/23/2023	0.0439 J
Horiz. Delineation	GC-AP-MW-61HO	05/23/2023	0.0496 J
Horiz. Delineation	GC-AP-MW-62HO	05/22/2023	0.184
Horiz. Delineation	GC-AP-MW-63HO	05/22/2023	0.0449 J
Horiz. Delineation	GC-AP-MW-64HO	05/17/2023	0.105
Horiz. Delineation	GC-AP-PZ-4	05/17/2023	0.476

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6. NC = value not detected with alkalinity calculation

## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Upgradient	GC-AP-MW-23	10/25/2023	136.11	5.33	145.75	6.17	23.27	1.13
Upgradient	GC-AP-MW-24	10/25/2023	206	3.96	173.43	5.33	22.84	0.13
Upgradient	GC-AP-MW-26	10/24/2023	79.15	2.37	159.63	5.62	19.21	0.42
Upgradient	GC-AP-MW-27	10/24/2023	35.26	5.7	258.82	4.95	19.55	0.37
Upgradient	GC-AP-MW-28	10/24/2023	42.12	7.74	278.06	4.81	19.49	0.06
Upgradient	GC-AP-MW-29	10/24/2023	7.38	8.12	273.6	4.99	19.18	0.28
Upgradient	GC-AP-MW-30	10/24/2023	29.17	6.19	275.65	5.25	19.31	0.16
Downgradient	GC-AP-MW-1	10/24/2023	1315	0.06	-56.8	5.66	22.41	6.39
Downgradient	GC-AP-MW-10	11/01/2023	596.14	0.37	-65.16	6.91	19.83	4.29
Downgradient	GC-AP-MW-11	10/25/2023	496.28	0.14	18.49	6.36	21.56	2.81
Downgradient	GC-AP-MW-12	10/25/2023	307.42	1.3	83.57	6.77	22.55	1.12
Downgradient	GC-AP-MW-13	10/25/2023	319.81	2	-12.29	6.47	28.15	4.14
Downgradient	GC-AP-MW-14	11/01/2023	795.4	0.32	-71.08	6.8	20.28	2.72
Downgradient	GC-AP-MW-15	10/24/2023	541.3	0.48	54.01	6.29	19.46	0.1
Downgradient	GC-AP-MW-16	10/25/2023	765.36	0.06	-36.27	6.53	20.04	3.56
Downgradient	GC-AP-MW-17	10/23/2023	986.93	0.05	-97.32	6.63	20.55	2.23
Downgradient	GC-AP-MW-18	10/23/2023	617.57	0.1	-53.05	6.4	20.85	1.29
Downgradient	GC-AP-MW-2	10/24/2023	1147.26	0.02	-31.76	6.01	24.75	7.07
Downgradient	GC-AP-MW-21	10/25/2023	323.53	1.33	111.97	6.01	22.1	0.9
Downgradient	GC-AP-MW-25	11/01/2023	346.57	0.47	127.31	6.01	20.36	1.89

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## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Downgradient	GC-AP-MW-3	10/24/2023	527.21	0.02	-87.19	6.22	23.58	5.02
Downgradient	GC-AP-MW-31	10/30/2023	71.08	1.69	209.73	5.72	19	2.62
Downgradient	GC-AP-MW-32	10/30/2023	60.39	3.26	253.56	5.92	20.17	1.42
Downgradient	GC-AP-MW-33	10/30/2023	76.5	3.6	368.19	4.63	19.27	1.94
Downgradient	GC-AP-MW-5	10/24/2023	632.93	0.02	-94.65	6.61	22	8.93
Downgradient	GC-AP-MW-6	10/25/2023	1036.82	0.08	54.07	6.41	21.47	3.14
Downgradient	GC-AP-MW-7	10/25/2023	1297.09	4.53	49.26	6.57	20.45	9.27
Downgradient	GC-AP-MW-8	10/25/2023	984.02	0.07	35.52	6.47	20.87	2.03
Downgradient	GC-AP-MW-9	10/25/2023	733.3	0.04	-1.6	6.22	20.24	6.47
Horiz. Delineation	GC-AP-MW-34HA	11/01/2023	184.14	1.38	200.7	5.96	23.3	1.87
Horiz. Delineation	GC-AP-MW-35H	10/24/2023	165.42	6.41	184.41	5.74	22.54	1.86
Horiz. Delineation	GC-AP-MW-36H	10/25/2023	258.01	0.17	22.52	7.98	23.65	9.78
Horiz. Delineation	GC-AP-MW-37H	10/25/2023	989.32	0.2	-65.5	6.35	21.55	2.16
Horiz. Delineation	GC-AP-MW-38H	10/23/2023	438.86	3.73	21.92	6.63	23.97	2.54
Horiz. Delineation	GC-AP-MW-39H	10/31/2023	721.04	0.06	-61.14	6.56	19.6	1.32
Horiz. Delineation	GC-AP-MW-40H	10/24/2023	645.17	0.06	120.7	5.78	19.6	0.18
Horiz. Delineation	GC-AP-MW-41H	10/31/2023	702.32	0.04	-25.04	6.48	20.36	6.12
Horiz. Delineation	GC-AP-MW-42H	10/25/2023	607.77	0.06	-25.91	6.35	20.23	5.65
Horiz. Delineation	GC-AP-MW-43H	10/25/2023	792.65	0.08	-63.06	6.41	19.65	3.14
Horiz. Delineation	GC-AP-MW-44H	10/31/2023	735.38	0.08	-10.2	6.2	19.75	5.87

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- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Horiz. Delineation	GC-AP-MW-45H	10/31/2023	717.04	0.09	28.36	6.83	20.73	2.97
Horiz. Delineation	GC-AP-MW-46HO	10/18/2023	454.23	0.15	38.99	6.72	20.5	1.33
Horiz. Delineation	GC-AP-MW-47HO	10/24/2023	144.41	2.14	181.27	5.85	23.25	1.8
Horiz. Delineation	GC-AP-MW-48H	10/25/2023	100.91	0.07	182.98	5.76	20.72	0.9
Horiz. Delineation	GC-AP-MW-49H	10/25/2023	358.6	1.7	155.47	5.6	22.11	2.08
Horiz. Delineation	GC-AP-MW-50HO	10/24/2023	243.63	0.1	141.79	6.05	19.25	2.7
Horiz. Delineation	GC-AP-MW-52HO	10/18/2023	918.83	0.05	-83.75	6.16	19.71	1.2
Horiz. Delineation	GC-AP-MW-53H	10/31/2023	605.95	0.07	-110.51	6.61	22.5	8.02
Horiz. Delineation	GC-AP-MW-54H	10/31/2023	770.46	0.07	-129.14	6.8	20.99	7.88
Horiz. Delineation	GC-AP-MW-55HO	10/24/2023	49.1	4.25	278.11	5.08	18.69	4.85
Horiz. Delineation	GC-AP-MW-57H	10/31/2023	387.98	0.05	-55.98	6.46	20.44	2.32
Horiz. Delineation	GC-AP-MW-59HO	10/24/2023	558.36	0.09	74.17	6.01	19.24	5.3
Horiz. Delineation	GC-AP-MW-60HO	10/24/2023	54.58	5.31	294.59	5.14	18.76	4.65
Horiz. Delineation	GC-AP-MW-61HO	10/24/2023	97.08	5.65	199.26	5.98	19.65	7.98
Horiz. Delineation	GC-AP-MW-62HO	10/23/2023	88.06	5.91	218.52	5.72	20.38	4.16
Horiz. Delineation	GC-AP-MW-63HO	10/23/2023	87.13	7.03	262.4	5.47	19.68	3.32
Horiz. Delineation	GC-AP-MW-64HO	10/18/2023	499.81	0.05	77.02	7	19.55	1.41
Horiz. Delineation	GC-AP-PZ-4	10/24/2023	1074.15	0.36	90.29	5.44	24.04	3.07

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## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Upgradient	GC-AP-MW-23	10/25/2023	<0.03	24.2	1.28	0.0761	6.17	12.6
Upgradient	GC-AP-MW-24	10/25/2023	<0.03	33.9	3.45	0.108	5.33	78.9
Upgradient	GC-AP-MW-26	10/24/2023	<0.03	8.82	2.84	0.0327 J	5.62	15.4
Upgradient	GC-AP-MW-27	10/24/2023	<0.03	1.47	2.08	<0.02	4.95	6.24
Upgradient	GC-AP-MW-28	10/24/2023	<0.03	1.83	1.28	0.0218 J	4.81	9.11
Upgradient	GC-AP-MW-29	10/24/2023	<0.03	0.168 J	1.16	<0.02	4.99	1.19 J
Upgradient	GC-AP-MW-30	10/24/2023	<0.03	0.529	2.86	<0.02	5.25	0.867 J
Downgradient	GC-AP-MW-1	10/24/2023	0.231	122	39.5	0.0372 J	5.66	714
Downgradient	GC-AP-MW-10	11/01/2023	2.23	105	15.3	0.222	6.91	124
Downgradient	GC-AP-MW-11	10/25/2023	0.625	62.4	19.1	0.141	6.36	165
Downgradient	GC-AP-MW-12	10/25/2023	0.272	33.1	4.69	0.165	6.77	74.3
Downgradient	GC-AP-MW-13	10/25/2023	0.465	24.3	11.4	0.149	6.47	64.8
Downgradient	GC-AP-MW-14	11/01/2023	2.17	152	10.1	0.256	6.8	135
Downgradient	GC-AP-MW-15	10/24/2023	0.877	87.4	9.61	0.144	6.29	128
Downgradient	GC-AP-MW-16	10/25/2023	1.99	121	8.33	0.276	6.53	35.7
Downgradient	GC-AP-MW-17	10/23/2023	2.21	147	10	0.515	6.63	97.3
Downgradient	GC-AP-MW-18	10/23/2023	1.07	77.5	23.7	0.164	6.4	17.7
Downgradient	GC-AP-MW-2	10/24/2023	0.143	201	10.7	0.06	6.01	606
Downgradient	GC-AP-MW-21	10/25/2023	0.315	30.9	6.93	0.0861	6.01	72.4
Downgradient	GC-AP-MW-25	11/01/2023	0.115	31.1	26.9	0.0861	6.01	72.6
Downgradient	GC-AP-MW-3	10/24/2023	0.0481 J	64.4	21	0.166	6.22	18.7

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## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Downgradient	GC-AP-MW-31	10/30/2023	<0.03	7.22	7.37	0.0258 J	5.72	3.75
Downgradient	GC-AP-MW-32	10/30/2023	<0.03	10.5	3.92	0.0401	5.92	3.36
Downgradient	GC-AP-MW-33	10/30/2023	<0.03	2.11	3.92	0.064	4.63	17.6
Downgradient	GC-AP-MW-5	10/24/2023	0.552	101	10.7	0.208	6.61	150
Downgradient	GC-AP-MW-6	10/25/2023	0.93	147	40.5	0.143	6.41	203
Downgradient	GC-AP-MW-7	10/25/2023	0.0465 J	170	170	0.0713	6.57	257
Downgradient	GC-AP-MW-8	10/25/2023	0.709	92.7	69.9	0.105	6.47	91.7
Downgradient	GC-AP-MW-9	10/25/2023	1.13	82	62.3	0.104	6.22	81.3
Horiz. Delineation	GC-AP-MW-34HA	11/01/2023	<0.03	16.8	6.78	0.06	5.96	28.2
Horiz. Delineation	GC-AP-MW-35H	10/24/2023	<0.03	23.5	4.15	0.0582	5.74	34.4
Horiz. Delineation	GC-AP-MW-36H	10/25/2023	0.14	0.851	1.99	0.321	7.98	13.7
Horiz. Delineation	GC-AP-MW-37H	10/25/2023	0.175	155	12.3	0.134	6.35	400
Horiz. Delineation	GC-AP-MW-38H	10/23/2023	0.0774 J	85.3	2.34	0.149	6.63	31
Horiz. Delineation	GC-AP-MW-39H	10/31/2023	2.14	134	4.89	0.436	6.56	22
Horiz. Delineation	GC-AP-MW-40H	10/24/2023	0.522	96	7.82	0.0974	5.78	234
Horiz. Delineation	GC-AP-MW-41H	10/31/2023	0.564	154	12.8	0.0601	6.48	295
Horiz. Delineation	GC-AP-MW-42H	10/25/2023	1.87	94.5	16.2	0.0583	6.35	146
Horiz. Delineation	GC-AP-MW-43H	10/25/2023	1.02	94.8	41.1	0.112	6.41	73.7
Horiz. Delineation	GC-AP-MW-44H	10/31/2023	0.182	144	12.2	0.0705	6.2	297
Horiz. Delineation	GC-AP-MW-45H	10/31/2023	0.511	132	10.3	0.157	6.83	309
Horiz. Delineation	GC-AP-MW-46HO	10/18/2023	0.314	57.4	9.4	0.143	6.72	87.4

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## Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary  
Plant Greene County Ash Pond  
10/17/2023 - 11/1/2023

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Horiz. Delineation	GC-AP-MW-47HO	10/24/2023	0.0835 J	12.5	3.28	0.0226 J	5.85	36.4
Horiz. Delineation	GC-AP-MW-48H	10/25/2023	0.0673 J	9.68	3.12	<0.02	5.76	27.9
Horiz. Delineation	GC-AP-MW-49H	10/25/2023	0.423	32.7	7.97	0.073	5.6	126
Horiz. Delineation	GC-AP-MW-50HO	10/24/2023	0.182	25.9	5.1	0.11	6.05	57.2
Horiz. Delineation	GC-AP-MW-52HO	10/18/2023	1.46	91.2	85.7	0.0487	6.16	84.2
Horiz. Delineation	GC-AP-MW-53H	10/31/2023	0.564	90.1	15.8	0.14	6.61	10.2
Horiz. Delineation	GC-AP-MW-54H	10/31/2023	0.369	125	7.65	0.239	6.8	94.8
Horiz. Delineation	GC-AP-MW-55HO	10/24/2023	<0.03	2	3.27	0.024 J	5.08	6.1
Horiz. Delineation	GC-AP-MW-57H	10/31/2023	0.188	38.4	4.83	0.174	6.46	80.7
Horiz. Delineation	GC-AP-MW-59HO	10/24/2023	0.192	78.1	10.2	0.0762	6.01	193
Horiz. Delineation	GC-AP-MW-60HO	10/24/2023	<0.03	3.23	3.99	0.0269 J	5.14	7.47
Horiz. Delineation	GC-AP-MW-61HO	10/24/2023	<0.03	14.3	2.31	0.0656	5.98	8.55
Horiz. Delineation	GC-AP-MW-62HO	10/23/2023	<0.03	8.86	2.16	0.0287 J	5.72	14.1
Horiz. Delineation	GC-AP-MW-63HO	10/23/2023	<0.03	7.04	2.46	<0.02	5.47	19
Horiz. Delineation	GC-AP-MW-64HO	10/18/2023	0.439	60.6	9.31	0.2	7	117
Horiz. Delineation	GC-AP-PZ-4	10/24/2023	0.25	161	7.95	0.0737	5.44	607

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## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Upgradient	GC-AP-MW-23	10/25/2023	<0.00071	<0.000112	0.0315	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.0761
Upgradient	GC-AP-MW-24	10/25/2023	<0.00071	0.000182 J	0.0527	<0.000406	<6.8e-005	<0.000203	0.000441	0.108
Upgradient	GC-AP-MW-26	10/24/2023	<0.00071	0.000115 J	0.0443	<0.000406	<6.8e-005	<0.000203	0.000546	0.0327 J
Upgradient	GC-AP-MW-27	10/24/2023	<0.00071	<0.000112	0.0791	<0.000406	0.000189 J	<0.000203	0.000152 J	<0.02
Upgradient	GC-AP-MW-28	10/24/2023	<0.00071	<0.000112	0.183	<0.000406	0.000442	0.000474 J	0.000258	0.0218 J
Upgradient	GC-AP-MW-29	10/24/2023	<0.00071	<0.000112	0.0398	<0.000406	0.000109 J	<0.000203	0.00102	<0.02
Upgradient	GC-AP-MW-30	10/24/2023	<0.00071	<0.000112	0.0218	<0.000406	<6.8e-005	0.000221 J	<6.8e-005	<0.02
Downgradient	GC-AP-MW-1	10/24/2023	<0.00071	0.0152	0.0368	<0.000406	8.86e-005 J	0.000481 J	0.202	0.0372 J
Downgradient	GC-AP-MW-10	11/01/2023	<0.00071	0.013	0.259	<0.000406	<6.8e-005	0.000231 J	0.0177	0.222
Downgradient	GC-AP-MW-11	10/25/2023	<0.00071	0.0049	0.0747	<0.000406	<6.8e-005	<0.000203	0.0349	0.141
Downgradient	GC-AP-MW-12	10/25/2023	0.000815 J	0.000274	0.0223	<0.000406	<6.8e-005	<0.000203	0.000578	0.165
Downgradient	GC-AP-MW-13	10/25/2023	0.00161	0.0195	0.0752	<0.000406	<6.8e-005	<0.000203	0.0018	0.149
Downgradient	GC-AP-MW-14	11/01/2023	<0.00071	0.0298	0.117	<0.000406	<6.8e-005	<0.000203	0.0308	0.256
Downgradient	GC-AP-MW-15	10/24/2023	<0.00071	0.000448	0.0399	<0.000406	0.000123 J	<0.000203	0.0192	0.144
Downgradient	GC-AP-MW-16	10/25/2023	<0.00071	0.058	0.126	<0.000406	<6.8e-005	<0.000203	0.0135	0.276
Downgradient	GC-AP-MW-17	10/23/2023	<0.00071	0.895	0.26	<0.000406	<6.8e-005	<0.000203	0.00717	0.515
Downgradient	GC-AP-MW-18	10/23/2023	<0.00071	0.0517	0.0692	<0.000406	<6.8e-005	<0.000203	0.022	0.164
Downgradient	GC-AP-MW-2	10/24/2023	<0.00071	0.00587	0.0373	<0.000406	<6.8e-005	0.000356 J	0.0378	0.06
Downgradient	GC-AP-MW-21	10/25/2023	<0.00071	0.000132 J	0.0507	<0.000406	9.8e-005 J	<0.000203	0.00285	0.0861
Downgradient	GC-AP-MW-25	11/01/2023	<0.00071	0.000183 J	0.0806	<0.000406	8.87e-005 J	0.000214 J	0.0116	0.0861
Downgradient	GC-AP-MW-3	10/24/2023	<0.00071	0.0121	0.142	<0.000406	<6.8e-005	0.000295 J	0.000413	0.166

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## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

EPA Appendix IV Set								
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L
Upgradient	GC-AP-MW-23	10/25/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	0.000992 J	<6.8e-005
Upgradient	GC-AP-MW-24	10/25/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	0.00053 J	<6.8e-005
Upgradient	GC-AP-MW-26	10/24/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Upgradient	GC-AP-MW-27	10/24/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Upgradient	GC-AP-MW-28	10/24/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Upgradient	GC-AP-MW-29	10/24/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Upgradient	GC-AP-MW-30	10/24/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-1	10/24/2023	<6.8e-005	0.0081 J	<0.0003	<0.005075	0.000734 J	0.000173 J
Downgradient	GC-AP-MW-10	11/01/2023	<6.8e-005	0.152	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-11	10/25/2023	<6.8e-005	0.2	0.000321 J	0.0177	<0.000508	0.0001 J
Downgradient	GC-AP-MW-12	10/25/2023	<6.8e-005	0.0953	<0.0003	0.0414	0.00203	<6.8e-005
Downgradient	GC-AP-MW-13	10/25/2023	<6.8e-005	0.15	<0.0003	0.0269	0.00397	0.000451
Downgradient	GC-AP-MW-14	11/01/2023	<6.8e-005	0.542	<0.0003	0.0277	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-15	10/24/2023	<6.8e-005	0.542	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-16	10/25/2023	7.11e-005 J	0.552	<0.0003	<0.005075	<0.000508	0.000339
Downgradient	GC-AP-MW-17	10/23/2023	<6.8e-005	0.655	<0.0003	0.0426	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-18	10/23/2023	<6.8e-005	0.276	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-2	10/24/2023	0.000828	<0.007105	<0.0003	<0.005075	<0.000508	0.000136 J
Downgradient	GC-AP-MW-21	10/25/2023	<6.8e-005	0.0599	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-25	11/01/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-3	10/24/2023	9.7e-005 J	<0.007105	<0.0003	<0.005075	0.000538 J	<6.8e-005

Notes:

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Downgradient	GC-AP-MW-31	10/30/2023	<0.00071	<0.000112	0.0372	<0.000406	<6.8e-005	0.000329 J	0.000715	0.0258 J
Downgradient	GC-AP-MW-32	10/30/2023	<0.00071	<0.000112	0.0134	<0.000406	<6.8e-005	0.000409 J	<6.8e-005	0.0401
Downgradient	GC-AP-MW-33	10/30/2023	<0.00071	0.000169 J	0.0764	<0.000406	<6.8e-005	0.000385 J	0.00108	0.064
Downgradient	GC-AP-MW-5	10/24/2023	<0.00071	0.382	0.142	<0.000406	<6.8e-005	0.00036 J	0.0082	0.208
Downgradient	GC-AP-MW-6	10/25/2023	<0.00071	0.000206	0.0633	<0.000406	7.64e-005 J	<0.000203	0.00284	0.143
Downgradient	GC-AP-MW-7	10/25/2023	<0.00071	0.000362	0.0645	<0.000406	0.000292	0.000431 J	0.00215	0.0713
Downgradient	GC-AP-MW-8	10/25/2023	<0.00071	0.000184 J	0.114	<0.000406	<6.8e-005	<0.000203	0.00679	0.105
Downgradient	GC-AP-MW-9	10/25/2023	<0.00071	0.0116	0.126	<0.000406	0.000308	0.000263 J	0.0238	0.104
Horiz. Delineation	GC-AP-MW-34HA	11/01/2023	<0.00071	0.000128 J	0.046	<0.000406	<6.8e-005	0.000258 J	0.00155	0.06
Horiz. Delineation	GC-AP-MW-35H	10/24/2023	<0.00071	<0.000112	0.0464	<0.000406	<6.8e-005	0.000332 J	<6.8e-005	0.0582
Horiz. Delineation	GC-AP-MW-36H	10/25/2023	<0.00071	0.002	0.00357	<0.000406	<6.8e-005	0.00114	0.000572	0.321
Horiz. Delineation	GC-AP-MW-37H	10/25/2023	<0.00071	0.00561	0.0854	<0.000406	<6.8e-005	0.000425 J	0.00966	0.134
Horiz. Delineation	GC-AP-MW-38H	10/23/2023	<0.00071	0.000304	0.0966	<0.000406	<6.8e-005	0.000537 J	0.000571	0.149
Horiz. Delineation	GC-AP-MW-39H	10/31/2023	<0.00071	0.0581	0.26	<0.000406	<6.8e-005	<0.000203	0.0162	0.436
Horiz. Delineation	GC-AP-MW-40H	10/24/2023	<0.00071	0.000305	0.026	<0.000406	0.000142 J	<0.000203	0.0123	0.0974
Horiz. Delineation	GC-AP-MW-41H	10/31/2023	<0.00071	0.002	0.127	<0.000406	<6.8e-005	0.000612 J	0.0233	0.0601
Horiz. Delineation	GC-AP-MW-42H	10/25/2023	<0.00071	0.00421	0.153	<0.000406	0.000127 J	<0.000203	0.0411	0.0583
Horiz. Delineation	GC-AP-MW-43H	10/25/2023	<0.00071	0.0114	0.159	<0.000406	<6.8e-005	<0.000203	0.017	0.112
Horiz. Delineation	GC-AP-MW-44H	10/31/2023	<0.00071	0.00179	0.0482	<0.000406	0.000136 J	0.000354 J	0.251	0.0705
Horiz. Delineation	GC-AP-MW-45H	10/31/2023	<0.00071	0.000744	0.0493	<0.000406	0.000128 J	0.000278 J	0.00947	0.157
Horiz. Delineation	GC-AP-MW-46HO	10/18/2023	<0.00071	0.00024	0.0658	<0.000406	<6.8e-005	<0.000203	0.00337	0.143

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## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

EPA Appendix IV Set								
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L
Downgradient	GC-AP-MW-31	10/30/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-32	10/30/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-33	10/30/2023	0.000181 J	<0.007105	<0.0003	<0.005075	0.000704 J	<6.8e-005
Downgradient	GC-AP-MW-5	10/24/2023	0.000118 J	0.0814	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-6	10/25/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-7	10/25/2023	0.00036	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-8	10/25/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Downgradient	GC-AP-MW-9	10/25/2023	0.000163 J	0.0121 J	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-34HA	11/01/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-35H	10/24/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	0.00326	<6.8e-005
Horiz. Delineation	GC-AP-MW-36H	10/25/2023	0.000493	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-37H	10/25/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-38H	10/23/2023	0.000408	<0.007105	<0.0003	<0.005075	0.0104	<6.8e-005
Horiz. Delineation	GC-AP-MW-39H	10/31/2023	<6.8e-005	0.361	<0.0003	<0.005075	<0.000508	0.000595
Horiz. Delineation	GC-AP-MW-40H	10/24/2023	<6.8e-005	0.681	<0.0003	<0.005075	<0.000508	0.00012 J
Horiz. Delineation	GC-AP-MW-41H	10/31/2023	<6.8e-005	0.125	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-42H	10/25/2023	<6.8e-005	0.0437	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-43H	10/25/2023	<6.8e-005	0.122	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-44H	10/31/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	8.69e-005 J
Horiz. Delineation	GC-AP-MW-45H	10/31/2023	<6.8e-005	0.501	<0.0003	0.0608	<0.000508	0.000248
Horiz. Delineation	GC-AP-MW-46HO	10/18/2023	<6.8e-005	0.137	<0.0003	0.0562	<0.000508	<6.8e-005

Notes:

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## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Horiz. Delineation	GC-AP-MW-47HO	10/24/2023	<0.00071	<0.000112	0.0247	<0.000406	<6.8e-005	<0.000203	<6.8e-005	0.0226 J
Horiz. Delineation	GC-AP-MW-48H	10/25/2023	<0.00071	<0.000112	0.0248	<0.000406	7.83e-005 J	<0.000203	0.000143 J	<0.02
Horiz. Delineation	GC-AP-MW-49H	10/25/2023	<0.00071	0.000422	0.0511	<0.000406	0.000377	<0.000203	0.00815	0.073
Horiz. Delineation	GC-AP-MW-50HO	10/24/2023	<0.00071	0.000122 J	0.0457	<0.000406	0.000245	<0.000203	0.00517	0.11
Horiz. Delineation	GC-AP-MW-52HO	10/18/2023	<0.00071	0.000131 J	0.204	<0.000406	0.000166 J	<0.000203	0.0122	0.0487
Horiz. Delineation	GC-AP-MW-53H	10/31/2023	<0.00071	0.302	0.311	<0.000406	<6.8e-005	0.000587 J	0.0038	0.14
Horiz. Delineation	GC-AP-MW-54H	10/31/2023	<0.00071	0.498	0.237	<0.000406	<6.8e-005	0.000374 J	0.0476	0.239
Horiz. Delineation	GC-AP-MW-55HO	10/24/2023	<0.00071	<0.000112	0.0282	<0.000406	<6.8e-005	0.000382 J	0.000696	0.024 J
Horiz. Delineation	GC-AP-MW-57H	10/31/2023	<0.00071	0.026	0.0998	<0.000406	<6.8e-005	<0.000203	0.044	0.174
Horiz. Delineation	GC-AP-MW-59HO	10/24/2023	<0.00071	0.000697	0.0529	<0.000406	<6.8e-005	<0.000203	0.0199	0.0762
Horiz. Delineation	GC-AP-MW-60HO	10/24/2023	<0.00071	<0.000112	0.0411	<0.000406	<6.8e-005	0.000237 J	0.000581	0.0269 J
Horiz. Delineation	GC-AP-MW-61HO	10/24/2023	<0.00071	0.000237	0.0438	<0.000406	<6.8e-005	0.00051 J	0.000375	0.0656
Horiz. Delineation	GC-AP-MW-62HO	10/23/2023	<0.00071	<0.000112	0.0637	<0.000406	<6.8e-005	<0.000203	0.000186 J	0.0287 J
Horiz. Delineation	GC-AP-MW-63HO	10/23/2023	<0.00071	<0.000112	0.0493	<0.000406	7.41e-005 J	<0.000203	0.000112 J	<0.02
Horiz. Delineation	GC-AP-MW-64HO	10/18/2023	<0.00071	0.000314	0.0767	<0.000406	0.000102 J	<0.000203	0.00355	0.2
Horiz. Delineation	GC-AP-PZ-4	10/24/2023	<0.00071	0.00252	0.0608	<0.000406	0.000158 J	0.000211 J	0.536	0.0737

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## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

EPA Appendix IV Set								
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L
Horiz. Delineation	GC-AP-MW-47HO	10/24/2023	<6.8e-005	0.0362	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-48H	10/25/2023	<6.8e-005	0.0435	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-49H	10/25/2023	<6.8e-005	0.0668	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-50HO	10/24/2023	7.29e-005 J	0.0673	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-52HO	10/18/2023	7.82e-005 J	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-53H	10/31/2023	0.000132 J	0.00794 J	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-54H	10/31/2023	9.91e-005 J	0.0648	0.000331 J	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-55HO	10/24/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-57H	10/31/2023	0.000112 J	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-59HO	10/24/2023	8.28e-005 J	<0.007105	<0.0003	<0.005075	<0.000508	9.68e-005 J
Horiz. Delineation	GC-AP-MW-60HO	10/24/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	0.000926 J	<6.8e-005
Horiz. Delineation	GC-AP-MW-61HO	10/24/2023	8.49e-005 J	<0.007105	<0.0003	<0.005075	0.000594 J	<6.8e-005
Horiz. Delineation	GC-AP-MW-62HO	10/23/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-63HO	10/23/2023	<6.8e-005	<0.007105	<0.0003	<0.005075	<0.000508	<6.8e-005
Horiz. Delineation	GC-AP-MW-64HO	10/18/2023	<6.8e-005	0.169	<0.0003	0.0717	<0.000508	9.52e-005 J
Horiz. Delineation	GC-AP-PZ-4	10/24/2023	0.000414	<0.007105	<0.0003	<0.005075	0.00198	0.000124 J

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## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Chloride mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Iron Total mg/L	Potassium mg/L	Magnesium Total mg/L
Upgradient	GC-AP-MW-23	10/25/2023	1.28	<0.2	12.6	0.0178 J	24.2	<0.00812	0.822	1.96
Upgradient	GC-AP-MW-24	10/25/2023	3.45	0.417	78.9	0.031 J	33.9	<0.00812	1.25	3.34
Upgradient	GC-AP-MW-26	10/24/2023	2.84	<0.2	15.4	0.0621	8.82	0.0152 J	0.522	1.2
Upgradient	GC-AP-MW-27	10/24/2023	2.08	0.476	6.24	0.0175 J	1.47	<0.00812	0.923	0.649
Upgradient	GC-AP-MW-28	10/24/2023	1.28	0.868	9.11	0.0481 J	1.83	<0.00812	1.51	1.48
Upgradient	GC-AP-MW-29	10/24/2023	1.16	0.432	1.19 J	0.0221 J	0.168 J	0.00902 J	0.916	0.265 J
Upgradient	GC-AP-MW-30	10/24/2023	2.86	1.09	0.867 J	<0.009135	0.529	<0.00812	0.572	0.105 J
Downgradient	GC-AP-MW-1	10/24/2023	39.5	0.387	714	0.102	122	195	4.86	28.1
Downgradient	GC-AP-MW-10	11/01/2023	15.3	<0.2	124	0.033 J	105	27.5	6.5	17.8
Downgradient	GC-AP-MW-11	10/25/2023	19.1	<0.2	165	<0.009135	62.4	2.21	6.47	14.5
Downgradient	GC-AP-MW-12	10/25/2023	4.69	<0.2	74.3	<0.009135	33.1	<0.00812	4.38	9.29
Downgradient	GC-AP-MW-13	10/25/2023	11.4	<0.2	64.8	0.0124 J	24.3	1.47	4.53	5.19
Downgradient	GC-AP-MW-14	11/01/2023	10.1	0.295 J	135	<0.009135	152	60.2	11.3	28.5
Downgradient	GC-AP-MW-15	10/24/2023	9.61	<0.2	128	<0.009135	87.4	1.18	10.2	18.9
Downgradient	GC-AP-MW-16	10/25/2023	8.33	<0.2	35.7	<0.009135	121	17.1	12.7	23.5
Downgradient	GC-AP-MW-17	10/23/2023	10	<0.2	97.3	<0.009135	147	36.5	13.6	29.6
Downgradient	GC-AP-MW-18	10/23/2023	23.7	<0.2	17.7	<0.009135	77.5	15.9	5.35	12.1
Downgradient	GC-AP-MW-2	10/24/2023	10.7	0.283 J	606	0.156	201	63.7	6.69	24.6
Downgradient	GC-AP-MW-21	10/25/2023	6.93	0.839	72.4	<0.009135	30.9	0.0431	4.63	8.89
Downgradient	GC-AP-MW-25	11/01/2023	26.9	<0.2	72.6	0.0205 J	31.1	1.15	0.973	8.37

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### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Manganese Total mg/L	Sodium mg/L	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L	Bicarbonate Alkalinity as CaCO3 mg CaCO3/L
Upgradient	GC-AP-MW-23	10/25/2023	0.000236 J	2.06	8.15	3.81	<1	63.1	NC	63.1
Upgradient	GC-AP-MW-24	10/25/2023	0.107	2.39	11.1	5.18	<1	12.7	NC	12.7
Upgradient	GC-AP-MW-26	10/24/2023	0.0527	3.86	10.8	5.03	<1	15.6	NC	15.6
Upgradient	GC-AP-MW-27	10/24/2023	0.017	2.68	9.97	4.66	<1	1.04	NC	1.04
Upgradient	GC-AP-MW-28	10/24/2023	0.0579	1.34	7.55	3.53	<1	0.58	NC	NC
Upgradient	GC-AP-MW-29	10/24/2023	0.014	0.947	8.13	3.8	<1	0.18	NC	NC
Upgradient	GC-AP-MW-30	10/24/2023	0.00311	4.68	9.89	4.62	<1	4.92	NC	4.92
Downgradient	GC-AP-MW-1	10/24/2023	14.4	33.3	11	5.12	3.28	31	NC	31
Downgradient	GC-AP-MW-10	11/01/2023	3.07	28.3	12.2	5.7	3.74	216	NC	216
Downgradient	GC-AP-MW-11	10/25/2023	8.02	37	5.61	2.62	1.58 J	103	NC	103
Downgradient	GC-AP-MW-12	10/25/2023	0.994	11.6	6.01	2.81	<1	70.1	NC	69.9
Downgradient	GC-AP-MW-13	10/25/2023	0.504	30.3	7.23	3.38	2.55	77.3	NC	77.2
Downgradient	GC-AP-MW-14	11/01/2023	5.05	33.6	14.1	6.6	4.3	370	NC	370
Downgradient	GC-AP-MW-15	10/24/2023	2.09	28.1	11.3	5.29	2.35	205	NC	205
Downgradient	GC-AP-MW-16	10/25/2023	3.43	33.3	12.7	5.92	3.33	415	0.563	414
Downgradient	GC-AP-MW-17	10/23/2023	1.72	49.3	18.3	8.56	3.9	467	0.619	466
Downgradient	GC-AP-MW-18	10/23/2023	2.67	42.3	17.4	8.15	4.2	296	NC	296
Downgradient	GC-AP-MW-2	10/24/2023	6.59	30	11.3	5.29	2.33	34.8	NC	34.8
Downgradient	GC-AP-MW-21	10/25/2023	2.06	17.3	7.4	3.46	<1	76.9	NC	76.9
Downgradient	GC-AP-MW-25	11/01/2023	0.313	34	22.9	10.7	1.61 J	69.6	NC	69.6

Notes:

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Sulfide mg/L
Upgradient	GC-AP-MW-23	10/25/2023	0
Upgradient	GC-AP-MW-24	10/25/2023	0
Upgradient	GC-AP-MW-26	10/24/2023	0
Upgradient	GC-AP-MW-27	10/24/2023	0
Upgradient	GC-AP-MW-28	10/24/2023	0
Upgradient	GC-AP-MW-29	10/24/2023	0
Upgradient	GC-AP-MW-30	10/24/2023	0
Downgradient	GC-AP-MW-1	10/24/2023	0
Downgradient	GC-AP-MW-10	11/01/2023	0
Downgradient	GC-AP-MW-11	10/25/2023	0
Downgradient	GC-AP-MW-12	10/25/2023	0
Downgradient	GC-AP-MW-13	10/25/2023	0
Downgradient	GC-AP-MW-14	11/01/2023	0
Downgradient	GC-AP-MW-15	10/24/2023	0
Downgradient	GC-AP-MW-16	10/25/2023	0
Downgradient	GC-AP-MW-17	10/23/2023	0
Downgradient	GC-AP-MW-18	10/23/2023	0
Downgradient	GC-AP-MW-2	10/24/2023	0
Downgradient	GC-AP-MW-21	10/25/2023	0
Downgradient	GC-AP-MW-25	11/01/2023	0

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4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Chloride mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Iron Total mg/L	Potassium mg/L	Magnesium Total mg/L
Downgradient	GC-AP-MW-3	10/24/2023	21	0.263 J	18.7	0.0786	64.4	53.5	0.673	3.81
Downgradient	GC-AP-MW-31	10/30/2023	7.37	0.74	3.75	0.00979 J	7.22	<0.00812	1.48	1.41
Downgradient	GC-AP-MW-32	10/30/2023	3.92	0.331	3.36	<0.009135	10.5	<0.00812	0.721	0.758
Downgradient	GC-AP-MW-33	10/30/2023	3.92	3.3	17.6	0.163	2.11	0.0342 J	4.44	2.89
Downgradient	GC-AP-MW-5	10/24/2023	10.7	<0.2	150	0.137	101	30.1	6.1	16.7
Downgradient	GC-AP-MW-6	10/25/2023	40.5	<0.2	203	0.0142 J	147	0.398	0.568	21.3
Downgradient	GC-AP-MW-7	10/25/2023	170	<0.2	257	0.116	170	0.629	1.53	13
Downgradient	GC-AP-MW-8	10/25/2023	69.9	<0.2	91.7	<0.009135	92.7	0.0302 J	0.804	16.8
Downgradient	GC-AP-MW-9	10/25/2023	62.3	<0.2	81.3	0.0576	82	10.3	4.84	18.6
Horiz. Delineation	GC-AP-MW-34HA	11/01/2023	6.78	0.908	28.2	0.0125 J	16.8	0.0406	0.84	2.12
Horiz. Delineation	GC-AP-MW-35H	10/24/2023	4.15	1.01	34.4	<0.009135	23.5	<0.00812	1.46	2.96
Horiz. Delineation	GC-AP-MW-36H	10/25/2023	1.99	<0.2	13.7	0.933	0.851	0.256	0.579	0.0616 J
Horiz. Delineation	GC-AP-MW-37H	10/25/2023	12.3	0.284 J	400	0.0141 J	155	72.5	2.73	23.5
Horiz. Delineation	GC-AP-MW-38H	10/23/2023	2.34	0.554	31	0.32	85.3	1.07	2.07	6.66
Horiz. Delineation	GC-AP-MW-39H	10/31/2023	4.89	<0.2	22	<0.009135	134	33.8	12.8	24.8
Horiz. Delineation	GC-AP-MW-40H	10/24/2023	7.82	<0.2	234	<0.009135	96	0.499	8.87	22.3
Horiz. Delineation	GC-AP-MW-41H	10/31/2023	12.8	<0.2	295	0.0209 J	154	11.9	7.63	16.7
Horiz. Delineation	GC-AP-MW-42H	10/25/2023	16.2	<0.2	146	<0.009135	94.5	9.88	4.54	15.1
Horiz. Delineation	GC-AP-MW-43H	10/25/2023	41.1	<0.2	73.7	<0.009135	94.8	8.57	7.89	27.3
Horiz. Delineation	GC-AP-MW-44H	10/31/2023	12.2	<0.2	297	0.0671	144	5.29	2.81	14.1

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## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Manganese Total mg/L	Sodium mg/L	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L	Bicarbonate Alkalinity as CaCO3 mg CaCO3/L
Downgradient	GC-AP-MW-3	10/24/2023	0.32	29.8	9.54	4.46	11.6	229	NC	229
Downgradient	GC-AP-MW-31	10/30/2023	0.00928	6.48	10.3	4.79	<1	25.9	NC	25.9
Downgradient	GC-AP-MW-32	10/30/2023	0.000162 J	4.18	12.1	5.64	<1	30.2	NC	30.2
Downgradient	GC-AP-MW-33	10/30/2023	0.0153	6.23	6.98	3.26	1.22 J	2.42	NC	2.42
Downgradient	GC-AP-MW-5	10/24/2023	1.37	21	16.8	7.83	2.31	195	NC	194
Downgradient	GC-AP-MW-6	10/25/2023	0.804	161	19.9	9.3	2.83	405	NC	404
Downgradient	GC-AP-MW-7	10/25/2023	0.915	225	19.2	8.97	2.55	332	0.529	331
Downgradient	GC-AP-MW-8	10/25/2023	1.27	190	13.7	6.38	3.4	454	NC	454
Downgradient	GC-AP-MW-9	10/25/2023	7.5	96.9	9.91	4.63	3.59	291	NC	291
Horiz. Delineation	GC-AP-MW-34HA	11/01/2023	0.00149	19.9	10.3	4.8	2.55	54	NC	54
Horiz. Delineation	GC-AP-MW-35H	10/24/2023	0.000253 J	3.21	8.43	3.94	<1	44.1	NC	44.1
Horiz. Delineation	GC-AP-MW-36H	10/25/2023	0.00631	73.9	12.6	5.89	<1	140	2.35	138
Horiz. Delineation	GC-AP-MW-37H	10/25/2023	4.38	28.6	19.6	9.18	6	183	NC	183
Horiz. Delineation	GC-AP-MW-38H	10/23/2023	0.119	2.74	9.22	4.31	2.17	209	NC	209
Horiz. Delineation	GC-AP-MW-39H	10/31/2023	3.76	28.3	11.8	5.5	3.96	425	NC	425
Horiz. Delineation	GC-AP-MW-40H	10/24/2023	2.97	17.9	6.57	3.07	1.77 J	91.3	NC	91.3
Horiz. Delineation	GC-AP-MW-41H	10/31/2023	4.5	28.3	9.2	4.3	2.36	116	NC	116
Horiz. Delineation	GC-AP-MW-42H	10/25/2023	4.14	33	8.6	4.02	2.98	170	NC	170
Horiz. Delineation	GC-AP-MW-43H	10/25/2023	8.94	52.2	8.8	4.11	3.19	336	NC	336
Horiz. Delineation	GC-AP-MW-44H	10/31/2023	6.32	24.3	11.4	5.35	1.77 J	99	NC	99

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## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Sulfide mg/L
Downgradient	GC-AP-MW-3	10/24/2023	0
Downgradient	GC-AP-MW-31	10/30/2023	0
Downgradient	GC-AP-MW-32	10/30/2023	0
Downgradient	GC-AP-MW-33	10/30/2023	0
Downgradient	GC-AP-MW-5	10/24/2023	0
Downgradient	GC-AP-MW-6	10/25/2023	0
Downgradient	GC-AP-MW-7	10/25/2023	0
Downgradient	GC-AP-MW-8	10/25/2023	0
Downgradient	GC-AP-MW-9	10/25/2023	0
Horiz. Delineation	GC-AP-MW-34HA	11/01/2023	0
Horiz. Delineation	GC-AP-MW-35H	10/24/2023	0
Horiz. Delineation	GC-AP-MW-36H	10/25/2023	0
Horiz. Delineation	GC-AP-MW-37H	10/25/2023	0
Horiz. Delineation	GC-AP-MW-38H	10/23/2023	0
Horiz. Delineation	GC-AP-MW-39H	10/31/2023	0
Horiz. Delineation	GC-AP-MW-40H	10/24/2023	0
Horiz. Delineation	GC-AP-MW-41H	10/31/2023	0
Horiz. Delineation	GC-AP-MW-42H	10/25/2023	0
Horiz. Delineation	GC-AP-MW-43H	10/25/2023	0
Horiz. Delineation	GC-AP-MW-44H	10/31/2023	0

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## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Chloride mg/L	Nitrate Nitrite mg/L as N	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Iron Total mg/L	Potassium mg/L	Magnesium Total mg/L
Horiz. Delineation	GC-AP-MW-45H	10/31/2023	10.3	<0.2	309	0.0202 J	132	0.43	8.99	29.2
Horiz. Delineation	GC-AP-MW-46HO	10/18/2023	9.4	0.89	87.4	0.0124 J	57.4	0.0123 J	5.86	16.7
Horiz. Delineation	GC-AP-MW-47HO	10/24/2023	3.28	<0.2	36.4	<0.009135	12.5	<0.00812	2.98	3.37
Horiz. Delineation	GC-AP-MW-48H	10/25/2023	3.12	<0.2	27.9	<0.009135	9.68	<0.00812	2.13	2.4
Horiz. Delineation	GC-AP-MW-49H	10/25/2023	7.97	0.308	126	0.0756	32.7	0.217	5.32	9.7
Horiz. Delineation	GC-AP-MW-50HO	10/24/2023	5.1	<0.2	57.2	0.079	25.9	0.0564	4.03	4.58
Horiz. Delineation	GC-AP-MW-52HO	10/18/2023	85.7	<0.2	84.2	<0.009135	91.2	0.111	4.99	23.2
Horiz. Delineation	GC-AP-MW-53H	10/31/2023	15.8	0.264 J	10.2	0.195	90.1	64.5	4.25	8.75
Horiz. Delineation	GC-AP-MW-54H	10/31/2023	7.65	0.235 J	94.8	0.14	125	57.2	7.51	27.3
Horiz. Delineation	GC-AP-MW-55HO	10/24/2023	3.27	<0.2	6.1	0.066	2	0.0144 J	1.59	1.39
Horiz. Delineation	GC-AP-MW-57H	10/31/2023	4.83	<0.2	80.7	0.0115 J	38.4	39.9	4.46	11.7
Horiz. Delineation	GC-AP-MW-59HO	10/24/2023	10.2	<0.2	193	0.0377 J	78.1	0.456	3.72	14.3
Horiz. Delineation	GC-AP-MW-60HO	10/24/2023	3.99	<0.2	7.47	0.0937	3.23	0.0218 J	1.12	0.917
Horiz. Delineation	GC-AP-MW-61HO	10/24/2023	2.31	<0.2	8.55	0.115	14.3	0.0349 J	1.36	1.2
Horiz. Delineation	GC-AP-MW-62HO	10/23/2023	2.16	0.211 J	14.1	0.0686	8.86	0.0204 J	0.725	1.05
Horiz. Delineation	GC-AP-MW-63HO	10/23/2023	2.46	<0.2	19	0.0254 J	7.04	<0.00812	0.791	1.24
Horiz. Delineation	GC-AP-MW-64HO	10/18/2023	9.31	<0.2	117	0.0279 J	60.6	0.0366 J	6.67	16.9
Horiz. Delineation	GC-AP-PZ-4	10/24/2023	7.95	0.52	607	0.451	161	94.4	5.81	30.3

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## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Manganese Total mg/L	Sodium mg/L	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO <sub>3</sub> mg CaCO <sub>3</sub> /L	Carbonate Alkalinity as CaCO <sub>3</sub> mg CaCO <sub>3</sub> /L	Bicarbonate Alkalinity as CaCO <sub>3</sub> mg CaCO <sub>3</sub> /L
Horiz. Delineation	GC-AP-MW-45H	10/31/2023	4.94	25.4	5.78	2.7	1.78 J	110	NC	110
Horiz. Delineation	GC-AP-MW-46HO	10/18/2023	2.12	14.1	5.76	2.69	1.13 J	133	NC	133
Horiz. Delineation	GC-AP-MW-47HO	10/24/2023	0.0187	7.65	6.23	2.91	<1	25.1	NC	25.1
Horiz. Delineation	GC-AP-MW-48H	10/25/2023	0.0892	4.38	7.55	3.53	<1	200	NC	200
Horiz. Delineation	GC-AP-MW-49H	10/25/2023	2.49	18.2	5.8	2.71	<1	29.8	NC	29.8
Horiz. Delineation	GC-AP-MW-50HO	10/24/2023	3.24	11.3	6.74	3.15	1 J	56.9	NC	56.8
Horiz. Delineation	GC-AP-MW-52HO	10/18/2023	10.9	82.4	8.88	4.15	1.12 J	267	NC	267
Horiz. Delineation	GC-AP-MW-53H	10/31/2023	2.53	22.5	15	7.02	4.68	244	NC	244
Horiz. Delineation	GC-AP-MW-54H	10/31/2023	1.87	14.8	18	8.42	4.19	306	NC	306
Horiz. Delineation	GC-AP-MW-55HO	10/24/2023	0.008	4.34	9.91	4.63	<1	9.9	NC	9.9
Horiz. Delineation	GC-AP-MW-57H	10/31/2023	1.98	12.2	11	5.15	3.03	94	NC	94
Horiz. Delineation	GC-AP-MW-59HO	10/24/2023	10.7	23	7.4	3.46	1.53 J	80.8	NC	80.8
Horiz. Delineation	GC-AP-MW-60HO	10/24/2023	0.00832	5.13	9.63	4.5	<1	10	NC	10
Horiz. Delineation	GC-AP-MW-61HO	10/24/2023	0.00893	1.4	7.47	3.49	<1	37.4	NC	37.4
Horiz. Delineation	GC-AP-MW-62HO	10/23/2023	0.0137	2.09	6.31	2.95	<1	13.3	NC	13.3
Horiz. Delineation	GC-AP-MW-63HO	10/23/2023	0.00911	2.3	6.03	2.82	<1	6.28	NC	6.28
Horiz. Delineation	GC-AP-MW-64HO	10/18/2023	4.69	21	6.1	2.85	1.43 J	135	NC	135
Horiz. Delineation	GC-AP-PZ-4	10/24/2023	9.87	16.9	10.3	4.83	2.19	24.5	NC	24.5

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- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

## Table 7. Second Semi-Annual Monitoring Event

### Analytical Results Summary Plant Greene County Ash Pond 10/17/2023 - 11/1/2023

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Sulfide mg/L
Horiz. Delineation	GC-AP-MW-45H	10/31/2023	0
Horiz. Delineation	GC-AP-MW-46HO	10/18/2023	0
Horiz. Delineation	GC-AP-MW-47HO	10/24/2023	0
Horiz. Delineation	GC-AP-MW-48H	10/25/2023	0
Horiz. Delineation	GC-AP-MW-49H	10/25/2023	0
Horiz. Delineation	GC-AP-MW-50HO	10/24/2023	0
Horiz. Delineation	GC-AP-MW-52HO	10/18/2023	0
Horiz. Delineation	GC-AP-MW-53H	10/31/2023	0
Horiz. Delineation	GC-AP-MW-54H	10/31/2023	0
Horiz. Delineation	GC-AP-MW-55HO	10/24/2023	0
Horiz. Delineation	GC-AP-MW-57H	10/31/2023	0
Horiz. Delineation	GC-AP-MW-59HO	10/24/2023	0
Horiz. Delineation	GC-AP-MW-60HO	10/24/2023	0
Horiz. Delineation	GC-AP-MW-61HO	10/24/2023	0
Horiz. Delineation	GC-AP-MW-62HO	10/23/2023	0
Horiz. Delineation	GC-AP-MW-63HO	10/23/2023	0
Horiz. Delineation	GC-AP-MW-64HO	10/18/2023	0
Horiz. Delineation	GC-AP-PZ-4	10/24/2023	0

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

# Appendix A



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-23									
		02/17/2016	04/12/2016	06/01/2016	08/16/2016	10/11/2016	11/02/2016	01/24/2017	03/14/2017	05/09/2017	06/27/2017
<b>Appendix III</b>											
Boron	mg/L	0.0271 J	<0.02	<0.02	<0.02	0.024 J	--	0.0333 J	--	<0.02	<0.02
Calcium	mg/L	38.7	42.7	41.8	40.9	38.1	--	27.7	--	29.3	28.6
Chloride	mg/L	1.54	1.51	1.46	1.5	1.52	--	1.38	--	2.4	2.1
Fluoride	mg/L	0.08 J	0.077 J	0.101 J	0.093 J	0.059 J	--	--	0.07 J	0.08 J	0.08 J
pH_Field	SU	6.8	6.54	6.49	6.57	6.54	--	6.42	--	6.42	6.44
Sulfate	mg/L	14.7	20	20.1	19.1	18.4	--	15	--	14	14
TDS	mg/L	142	155	148	132	--	115	107	--	80.7	96.7
<b>Appendix IV</b>											
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	0.000886 J	--	<0.0006	<0.0006
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001
Barium	mg/L	0.0285	0.035	0.0328	0.033	0.0352	--	0.0286	--	0.0257	0.0246
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.044 U	0.213 U	0.184 U	--	0.251 U	--	0.631	0.145 U
Fluoride	mg/L	0.08 J	0.077 J	0.101 J	0.093 J	0.059 J	--	--	0.07 J	0.08 J	0.08 J
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	--	<0.01	<0.01
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002
Selenium	mg/L	<0.002	0.00205 J	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002
Thallium	mg/L	0.000364 J	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-23											
		08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/07/2018	03/26/2019	09/10/2019	04/21/2020	08/12/2020	03/10/2021	08/24/2021	03/28/2022
<b>Appendix III</b>													
Boron	mg/L	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	32.3	--	34.5	32	30.3	31.3	30.7	30.8	28	26.6	26.3	26
Chloride	mg/L	2.4	--	1.7 J	1.5 J	1.4 J	1.23	1.38	1.08	1.28	1.3	1.19	1.09
Fluoride	mg/L	0.1	0.08 J	0.09 J	--	0.08 J	0.123	0.0914 J	0.095 J	0.0867 J	0.085 J	0.0713 J	<0.06
pH_Field	SU	6.43	6.49	6.43	6.35	6.37	6.46	5.85	6.26	6.03	6.17	6.09	6.08
Sulfate	mg/L	16	--	14	13	14	12.3	12.4	10.2	10.2	11.8	11.6	11.8
TDS	mg/L	120	--	113	108	96.7	103	107	107	96	105	96.7	96
<b>Appendix IV</b>													
Antimony	mg/L	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	7.36e-005 J	<8.1e-005
Barium	mg/L	--	0.0287	0.0279	--	0.0281	0.0295	0.0338	0.0296	0.0311	0.0305	0.0311	0.0264
Beryllium	mg/L	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000432 J	0.000426 J	0.000337 J
Cobalt	mg/L	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	--	0.402 U	0.313 U	--	0.496 U	0.315 U	0.219 U	0.166 U	0.986	1.01 U	0.735 U	0.99 U
Fluoride	mg/L	0.1	0.08 J	0.09 J	--	0.08 J	0.123	0.0914 J	0.095 J	0.0867 J	0.085 J	0.0713 J	<0.06
Lead	mg/L	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000179 J	0.000167 J	0.000124 J
Selenium	mg/L	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.00117	0.00113	0.000989 J
Thallium	mg/L	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-23			GC-AP-MW-24								
		10/17/2022	05/16/2023	10/25/2023	02/17/2016	04/12/2016	06/01/2016	08/16/2016	10/11/2016	11/02/2016	01/24/2017	03/14/2017	05/10/2017
<b>Appendix III</b>													
Boron	mg/L	<0.03	<0.03	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	--	<0.02
Calcium	mg/L	23.1	25.4	24.2	6.54	6.15	5.7	6.77	8.84	--	12.8	--	12.4
Chloride	mg/L	0.973 J	1.08	1.28	3.3	3.25	3.55	3.45	3.78	--	4.61	--	5.9
Fluoride	mg/L	<0.06	0.0935 J	0.0761	0.02 J	0.026 J	0.057 J	0.046 J	<0.01	--	--	<0.032	<0.032
pH_Field	SU	6.22	6.09	6.17	5.39	5.29	5.39	5.51	5.44	--	5.44	--	5.43
Sulfate	mg/L	9.72	9.41	12.6	10.4	11.3	10.4	12.2	19.8	--	30.7	--	33
TDS	mg/L	83.3	86	87.3	53	38.7	46	48	--	66.7	78.7	--	92.7
<b>Appendix IV</b>													
Antimony	mg/L	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	0.000858 J	--	<0.0006
Arsenic	mg/L	0.000111 J	<0.000112	<0.000112	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001
Barium	mg/L	0.0286	0.0322	0.0315	0.0305	0.0312	0.0298	0.0308	0.042	--	0.0446	--	0.0568
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002
Chromium	mg/L	0.000347 J	0.000304 J	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002
Cobalt	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	0.00219 J	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002
Combined Radium 226 + 228	pCi/L	0.72 U	0.291 U	0.449 U	1 U	1 U	0.407	0.547 U	0.845	--	0.403 U	--	0.645
Fluoride	mg/L	<0.06	0.0935 J	0.0761	0.02 J	0.026 J	0.057 J	0.046 J	<0.01	--	--	<0.032	<0.032
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	--	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025
Molybdenum	mg/L	<0.000102	<0.005075	<0.005075	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002
Selenium	mg/L	0.000864 J	0.00102	0.000992 J	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	0.00039 J	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-24											
		06/28/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/07/2018	03/26/2019	09/10/2019	04/22/2020	08/12/2020	03/10/2021	08/24/2021
<b>Appendix III</b>													
Boron	mg/L	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	17.9	19	--	30	28.7	30.7	32.3	32.8	31.4	35.8	42.8	36.2
Chloride	mg/L	5.7	6.8	--	7.9	6.1	5.2	6.92	4.39	2.75	4.14	3.51	3.42
Fluoride	mg/L	<0.032	0.04 J	<0.032	0.04 J	--	<0.032	<0.05	0.0545 J	<0.06	<0.06	<0.06	<0.06
pH_Field	SU	5.49	5.46	5.48	5.31	5.36	5.34	5.32	4.9	5.3	5.04	5.14	5.16
Sulfate	mg/L	56	61	--	97	83	91	103	83.4	84.7	82.2	99.9	81.8
TDS	mg/L	118	128	--	171	170	163	174	167	162	165	179	167
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.00045	0.000244
Barium	mg/L	0.0663	--	0.101	0.108	--	0.1	0.0978	0.0967	0.0738	0.0788	0.0873	0.0695
Beryllium	mg/L	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000433 J	0.000339 J
Cobalt	mg/L	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000676	0.000731
Combined Radium 226 + 228	pCi/L	0.93	--	1.88	1.13	--	1.72	1.21	1.21	0.791	0.919	2.15	1.23
Fluoride	mg/L	<0.032	0.04 J	<0.032	0.04 J	--	<0.032	<0.05	0.0545 J	<0.06	<0.06	<0.06	<0.06
Lead	mg/L	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105
Mercury	mg/L	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005
Selenium	mg/L	0.00268 J	--	0.00281 J	0.00294 J	--	<0.002	0.00208 J	<0.002	<0.002	<0.002	0.00139	0.000926 J
Thallium	mg/L	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-24				GC-AP-MW-26								
		04/04/2022	10/17/2022	05/16/2023	10/25/2023	08/17/2016	09/20/2016	10/12/2016	11/15/2016	11/29/2016	01/04/2017	01/23/2017	03/13/2017	
<b>Appendix III</b>														
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.02	<0.02	<0.02	<0.02	--	<0.02	0.0217 J	--	
Calcium	mg/L	37	31.6	47.3	33.9	5.88	5.95	6.1	6.28	--	4.97	5.17	--	
Chloride	mg/L	3.09	3.19	3.74	3.45	2.44	2.54	2.67	2.94	--	2.92	3.21	--	
Fluoride	mg/L	<0.06	<0.06	<0.06	0.108	0.159 J	0.126 J	0.1 J	0.016 J	--	<0.01	--	0.31	
pH_Field	SU	4.4	5.22	4.8	5.33	5.85	5.82	5.76	5.79	--	5.69	5.45	--	
Sulfate	mg/L	90.2	79.6	103	78.9	16.2	14.9	12.4	8.6	--	12.2	16	--	
TDS	mg/L	155	134	182	147	64	60	54.7	--	42	56	50.7	--	
<b>Appendix IV</b>														
Antimony	mg/L	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	0.001 J	--	
Arsenic	mg/L	0.000332	0.000297	0.000269	0.000182 J	0.0017 J	0.00283 J	0.00218 J	0.00124 J	--	0.0028 J	0.00257 J	--	
Barium	mg/L	0.0635	0.0511	0.0673	0.0527	0.0476	0.0436	0.0397	0.0369	--	0.0518	0.0662	--	
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	0.00161 J	0.00155 J	0.00138 J	0.00109 J	--	0.00141 J	0.00171 J	--	
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	
Chromium	mg/L	0.000371 J	0.000301 J	0.000248 J	<0.000203	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	
Cobalt	mg/L	0.000726	0.000595	0.000596	0.000441	0.0167	0.0122	0.00839 J	0.00562 J	--	0.00655 J	0.0116	--	
Combined Radium 226 + 228	pCi/L	1.43	1.28	1.19	0.428 U	0.66	0.582	-0.183 U	0.262 U	--	0.255 U	0.871	--	
Fluoride	mg/L	<0.06	<0.06	<0.06	0.108	0.159 J	0.126 J	0.1 J	0.016 J	--	<0.01	--	0.31	
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	
Molybdenum	mg/L	<0.000102	<0.000102	<0.005075	<0.005075	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	
Selenium	mg/L	0.000931 J	0.000816 J	0.000692 J	0.00053 J	<0.002	<0.002	<0.002	<0.002	--	<0.002	0.00247 J	--	
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-26											
		05/09/2017	06/27/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/26/2019	09/11/2019	04/21/2020	08/18/2020	03/15/2021
<b>Appendix III</b>													
Boron	mg/L	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	15.7	14.2	11.1	--	3.93	3.76	4.81	3.18	3.98	3.83	4.58	4.67
Chloride	mg/L	2.5	3	3.6	--	2.2	1.5 J	2.5	2	2.34	2.04	2.16	2.83
Fluoride	mg/L	0.25	0.22	0.22	0.08 J	0.07 J	--	0.07 J	<0.05	0.0716 J	<0.06	<0.06	<0.06
pH_Field	SU	4.82	5.27	5.28	5.11	5.24	5.28	5.54	5.4	5.53	5.3	4.79	5.32
Sulfate	mg/L	55	45	37	--	9.3	7.8	6	6.86	5.29	6.28	9.57	7.66
TDS	mg/L	126	93.3	84	--	38.7	35.3	40.7	36.7	40.7	39.3	42	42.7
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507
Arsenic	mg/L	0.00138 J	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000125 J
Barium	mg/L	0.0691	0.0603	--	0.0386	0.0356	--	0.0387	0.0419	0.0468	0.0439	0.0409	0.0351
Beryllium	mg/L	0.00226 J	0.0017 J	--	0.00147 J	0.000821 J	--	0.000757 J	0.00092 J	<0.0006	0.000756 J	0.000828 J	0.000453 J
Cadmium	mg/L	0.000706 J	0.000429 J	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005
Chromium	mg/L	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000474 J
Cobalt	mg/L	0.0167	0.0109	--	0.00278 J	0.00223 J	--	0.00202 J	<0.002	<0.002	<0.002	0.00279 J	0.000606
Combined Radium 226 + 228	pCi/L	0.575	0.459	--	1.3	0.269 U	--	0.328 U	0.571	0.561	0.215 U	2.3	0.347 U
Fluoride	mg/L	0.25	0.22	0.22	0.08 J	0.07 J	--	0.07 J	<0.05	0.0716 J	<0.06	<0.06	<0.06
Lead	mg/L	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	6.99e-005 J
Lithium	mg/L	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105
Mercury	mg/L	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005
Selenium	mg/L	0.0072 J	0.00443 J	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507
Thallium	mg/L	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-26					GC-AP-MW-27						
		08/18/2021	04/04/2022	10/19/2022	05/30/2023	10/24/2023	08/17/2016	09/20/2016	10/12/2016	11/15/2016	11/29/2016	01/04/2017	01/23/2017
<b>Appendix III</b>													
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.02	<0.02	0.02 J	<0.02	--	<0.02	0.0287 J
Calcium	mg/L	4.84	6.7	7.91	8.23	8.82	1.1	0.771	0.711	0.641	--	0.797	0.655
Chloride	mg/L	2.97	2.93	2.84	2.89	2.84	1.78	1.61	1.51	1.5	--	1.53	1.62
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	0.0327 J	0.039 J	0.01 J	<0.01	<0.01	--	<0.01	--
pH_Field	SU	5.25	5.2	5.55	5.07	5.62	5.47	5.22	5.1	5.07	--	5.3	5.12
Sulfate	mg/L	7.07	12.5	12.5	16	15.4	0.928 J	0.478 J	0.727 J	0.448 J	--	0.627 J	1.34
TDS	mg/L	43.3	40.7	54	56	60	36.7	25.3	--	--	--	27.3	--
<b>Appendix IV</b>													
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	0.00083 J
Arsenic	mg/L	0.000157 J	0.000112 J	0.000107 J	<0.000112	0.000115 J	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001
Barium	mg/L	0.0311	0.0335	0.034	0.0393	0.0443	0.0803	0.0679	0.0644	0.0628	--	0.0477	0.0482
Beryllium	mg/L	0.000409 J	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000211 J	<0.0002	<0.0002	0.000216 J	--	<0.0002	0.000231 J
Chromium	mg/L	0.000225 J	0.000295 J	0.00024 J	0.00028 J	<0.000203	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	0.000669	0.000448	0.000438	0.000483	0.000546	0.00692 J	0.00232 J	<0.002	<0.002	--	<0.002	0.00203 J
Combined Radium 226 + 228	pCi/L	0.327 U	0.55 U	0.298 U	0.491 U	0.323 U	0.386 U	0.794	0.81	0.366 U	--	0.356 U	0.429 U
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	0.0327 J	0.039 J	0.01 J	<0.01	<0.01	--	<0.01	--
Lead	mg/L	6.96e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	<6.8e-005	<0.000102	<0.000102	<0.005075	<0.005075	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-27											
		03/14/2017	05/09/2017	06/27/2017	08/29/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/26/2019	09/11/2019	04/21/2020	08/18/2020
<b>Appendix III</b>													
Boron	mg/L	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	--	0.538	0.413 J	0.504	--	0.339 J	0.776	0.746	0.526	0.638	1.15	0.884
Chloride	mg/L	--	2.2	1.9 J	2	--	1.9 J	<1.4	1.9 J	2.18	1.7	1.9	1.63
Fluoride	mg/L	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	--	<0.032	<0.05	<0.05	<0.06	<0.06
pH_Field	SU	--	4.83	4.87	4.71	4.96	5	4.94	4.9	4.96	4.85	4.29	4.75
Sulfate	mg/L	--	<1.4	<1.4	<1.4	--	2.1 J	<1.4	<1.4	1.66	1.29	2.21	1.57
TDS	mg/L	--	28.7	27.3	30.7	--	26	--	26	--	27.3	30.7	27.3
<b>Appendix IV</b>													
Antimony	mg/L	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	0.00137 J	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	--	0.0611	0.0492	--	0.0463	0.0298	--	0.0582	0.0499	0.0574	0.0827	0.0734
Beryllium	mg/L	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	--	0.62	0.319 U	--	0.271 U	0.391	--	0.646	0.498	0.368 U	0.55	0.504 U
Fluoride	mg/L	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	--	<0.032	<0.05	<0.05	<0.06	<0.06
Lead	mg/L	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-27						GC-AP-MW-28					
		03/15/2021	08/18/2021	03/28/2022	10/19/2022	05/30/2023	10/24/2023	08/17/2016	09/20/2016	10/12/2016	10/31/2016	11/15/2016	11/29/2016
<b>Appendix III</b>													
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.02	<0.02	<0.02	--	<0.02	--
Calcium	mg/L	0.745	1.11	1.37	1.02	1.27	1.47	7.74	2.43	2.46	--	2.28	--
Chloride	mg/L	2.46	2.45	1.96	2.08	2.05	2.08	1.77	1.56	1.54	--	1.53	--
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	0.0734 J	<0.02	0.055 J	0.021 J	<0.01	--	<0.01	--
pH_Field	SU	4.73	4.52	4.73	5.02	4.65	4.95	6.15	4.99	4.88	--	4.81	--
Sulfate	mg/L	2.5	3.18	6.24	3.95	5.96	6.24	6.46	8.3	8.36	--	8.75	--
TDS	mg/L	30.7	28.7	32.7	26	33.3	27.3	65.3	44	--	38.7	--	34
<b>Appendix IV</b>													
Antimony	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	--	<0.0006	--
Arsenic	mg/L	<6.8e-005	<6.8e-005	<8.1e-005	<8.1e-005	<0.000112	<0.000112	<0.001	<0.001	<0.001	--	<0.001	--
Barium	mg/L	0.069	0.0607	0.0625	0.0604	0.0747	0.0791	0.336	0.341	0.347	--	0.332	--
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	--	<0.0006	--
Cadmium	mg/L	0.0001 J	0.000184 J	0.000182 J	0.000193 J	0.000188 J	0.000189 J	0.000742 J	0.000857 J	0.000912 J	--	0.000821 J	--
Chromium	mg/L	0.000541 J	0.000321 J	0.000306 J	0.000294 J	0.000287 J	<0.000203	<0.002	<0.002	<0.002	--	<0.002	--
Cobalt	mg/L	0.000139 J	0.00016 J	0.000142 J	0.000142 J	0.00012 J	0.000152 J	0.00599 J	0.00466 J	0.00394 J	--	0.00296 J	--
Combined Radium 226 + 228	pCi/L	0.578 U	0.941 U	0.733 U	0.654 U	1.45	0.274 U	1.47	1.24	0.899	--	0.933	--
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	0.0734 J	<0.02	0.055 J	0.021 J	<0.01	--	<0.01	--
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	--	<0.001	--
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	--	<0.01	--
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	--	<0.00025	--
Molybdenum	mg/L	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.005075	<0.005075	<0.002	<0.002	<0.002	--	<0.002	--
Selenium	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	--	<0.002	--
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	--	<0.0002	--

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-28											
		01/04/2017	01/24/2017	03/14/2017	05/09/2017	06/27/2017	08/30/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/26/2019	09/11/2019
<b>Appendix III</b>													
Boron	mg/L	<0.02	0.0331 J	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03
Calcium	mg/L	2.7	4.19	--	3.28	3.76	2.31	--	2.76	2.04	2	2.13	1.98
Chloride	mg/L	1.58	1.71	--	2.1	2	1.5 J	--	1.2 J	<1.4	<1.4	1.2	1.26
Fluoride	mg/L	<0.01	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	--	<0.032	<0.05	0.0649 J
pH_Field	SU	4.88	5.4	--	4.96	5.34	4.69	4.91	4.87	4.65	4.67	4.92	4.33
Sulfate	mg/L	7.85	6.62	--	5.6	5.3	8.2	--	8.3	8.9	8.6	10.1	10.6
TDS	mg/L	42	45.3	--	49.3	46	38.7	--	34.7	34.7	36	30	40
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	0.00096 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	0.000975 J	<0.0008
Arsenic	mg/L	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001
Barium	mg/L	0.299	0.264	--	0.322	0.278	--	0.312	0.243	--	0.249	0.232	0.246
Beryllium	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	0.000718 J	0.000716 J	--	0.000746 J	0.00065 J	--	0.000752 J	0.000731 J	--	0.000646 J	0.000582 J	0.000573 J
Chromium	mg/L	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002
Cobalt	mg/L	0.00448 J	0.00259 J	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	1.54	0.868	--	1.22	0.925	--	0.0271 U	0.792	--	0.926	1.08	0.995
Fluoride	mg/L	<0.01	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	--	<0.032	<0.05	0.0649 J
Lead	mg/L	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01
Mercury	mg/L	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-28								GC-AP-MW-29			
		04/21/2020	08/18/2020	03/15/2021	08/18/2021	03/28/2022	10/19/2022	05/30/2023	10/24/2023	08/16/2016	09/20/2016	10/11/2016	10/31/2016
<b>Appendix III</b>													
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.02	<0.02	<0.02	--
Calcium	mg/L	2.41	2.23	1.73	1.94	1.94	1.83	2.22	1.83	2.02	1.22	1.48	--
Chloride	mg/L	1.32	1.38	1.27	1.42	1.35	1.23	1.35	1.28	2.21	2.12	2.24	--
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	<0.06	0.0698 J	<0.06	0.0218 J	0.05 J	0.015 J	<0.01	--
pH_Field	SU	4.07	4.59	4.45	3.78	4.69	4.87	5.04	4.81	6.21	6.05	6.2	--
Sulfate	mg/L	9.4	10.3	10.4	10.1	11.2	8.96	10.1	9.11	0.894 J	<0.3	<0.3	--
TDS	mg/L	36	35.3	30	32	38.7	28.7	32.7	28	41.3	42.7	--	140
<b>Appendix IV</b>													
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	--
Arsenic	mg/L	<0.001	<0.001	<6.8e-005	9.03e-005 J	<8.1e-005	<8.1e-005	<0.000112	<0.000112	0.00199 J	0.00155 J	0.00231 J	--
Barium	mg/L	0.219	0.211	0.222	0.198	0.186	0.183	0.179	0.183	0.0527	0.0698	0.0799	--
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	--
Cadmium	mg/L	0.00052 J	0.000476 J	0.000536	0.000421	0.000429	0.0004	0.000478	0.000442	<0.0002	<0.0002	<0.0002	--
Chromium	mg/L	<0.002	<0.002	0.000995 J	0.000708 J	0.000723 J	0.000678 J	0.000631 J	0.000474 J	<0.002	<0.002	<0.002	--
Cobalt	mg/L	<0.002	<0.002	0.000452	0.000362	0.000517	0.000326	0.000213	0.000258	0.0122	0.012	0.0135	--
Combined Radium 226 + 228	pCi/L	0.307 U	0.797	1.5	0.779 U	0.554 U	1.51	1.08 U	0.91 U	0.522	0.746	0.819	--
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	<0.06	0.0698 J	<0.06	0.0218 J	0.05 J	0.015 J	<0.01	--
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	--
Lithium	mg/L	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	--
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	--
Molybdenum	mg/L	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.005075	<0.005075	<0.002	<0.002	<0.002	--
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	--
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	--

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-29											
		11/15/2016	11/29/2016	01/04/2017	01/26/2017	03/13/2017	05/09/2017	06/27/2017	08/30/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018
<b>Appendix III</b>													
Boron	mg/L	0.0229 J	--	<0.02	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	--	<0.02
Calcium	mg/L	1.36	--	1.11	1.03	--	0.289 J	0.292 J	0.336 J	--	0.2 J	0.171 J	0.193 J
Chloride	mg/L	6.65	--	2.15	2.31	--	2.3	2.1	2.8	--	1.8 J	<1.4	<1.4
Fluoride	mg/L	<0.01	--	<0.01	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	--	<0.032
pH_Field	SU	6.64	--	6.06	6.02	--	5.05	4.9	4.73	4.87	4.89	4.88	4.86
Sulfate	mg/L	1.19	--	<0.3	0.6 J	--	<1.4	<1.4	<1.4	--	1.4 J	<1.4	<1.4
TDS	mg/L	--	78	34	32.7	--	--	30.7	25.3	--	--	--	--
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	--	<0.0006	0.00092 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008
Arsenic	mg/L	0.0044 J	--	0.00123 J	0.00169 J	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001
Barium	mg/L	0.0479	--	0.0513	0.0674	--	0.0836	0.0661	--	0.05	0.0433	--	0.0379
Beryllium	mg/L	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006
Cadmium	mg/L	<0.0002	--	<0.0002	0.000228 J	--	0.000277 J	<0.0002	--	<0.0003	<0.0003	--	<0.0003
Chromium	mg/L	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002
Cobalt	mg/L	0.00938 J	--	0.00859 J	0.0104	--	0.0119	0.0106	--	0.0027 J	0.00317 J	--	0.00367 J
Combined Radium 226 + 228	pCi/L	0.516	--	0.648 U	0.852	--	0.148 U	0.393	--	0.695	0.145 U	--	0.513 U
Fluoride	mg/L	<0.01	--	<0.01	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	--	<0.032
Lead	mg/L	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001
Lithium	mg/L	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01
Mercury	mg/L	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025
Molybdenum	mg/L	0.00308 J	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002
Selenium	mg/L	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002
Thallium	mg/L	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-29										GC-AP-MW-30	
		03/26/2019	09/11/2019	04/21/2020	08/18/2020	03/15/2021	08/18/2021	03/28/2022	10/19/2022	05/30/2023	10/24/2023	08/16/2016	09/20/2016
<b>Appendix III</b>													
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.02	<0.02
Calcium	mg/L	0.223 J	0.158 J	0.287 J	0.231 J	0.239 J	0.283 J	0.169 J	0.158 J	0.238 J	0.168 J	1.24	1.11
Chloride	mg/L	1.07	1.19	1.09	1.05	1.25	1.42	1.24	1.08	1.27	1.16	2.54	2.51
Fluoride	mg/L	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.02	0.036 J	<0.01
pH_Field	SU	4.97	3.96	3.9	4.22	4.79	3.94	4.67	5.01	4.82	4.99	5.39	5.37
Sulfate	mg/L	0.594 J	<0.5	0.694 J	0.608 J	<0.5	0.86 J	1.24 J	1.37 J	1.11 J	1.19 J	0.702 J	<0.3
TDS	mg/L	--	--	--	--	--	--	--	--	--	--	--	26.7
<b>Appendix IV</b>													
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<6.8e-005	9.45e-005 J	<8.1e-005	<8.1e-005	<0.000112	<0.000112	<0.001	<0.001
Barium	mg/L	0.0348	0.0404	0.0542	0.0442	0.0545	0.0554	0.032	0.0379	0.0452	0.0398	0.0376	0.0348
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	0.000204	0.000193 J	0.000121 J	0.00011 J	0.000158 J	0.000109 J	<0.0002	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	0.000393 J	0.000256 J	0.000393 J	0.000354 J	0.000345 J	<0.000203	<0.002	<0.002
Cobalt	mg/L	<0.002	0.00265 J	<0.002	0.00224 J	0.00145	0.0019	0.000689	0.00112	0.00097	0.00102	0.00548 J	0.0026 J
Combined Radium 226 + 228	pCi/L	0.598	0.237 U	0.201 U	3.88	0.618 U	0.937 U	0.529 U	0.629 U	1.01 U	0.855 U	0.434 U	0.51
Fluoride	mg/L	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.02	0.036 J	<0.01
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.005075	<0.005075	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-30											
		10/11/2016	10/31/2016	11/15/2016	11/29/2016	01/04/2017	01/23/2017	03/14/2017	05/09/2017	06/27/2017	08/30/2017	02/27/2018	06/05/2018
<b>Appendix III</b>													
Boron	mg/L	<0.02	--	<0.02	--	<0.02	<0.02	--	<0.02	<0.02	<0.02	--	<0.02
Calcium	mg/L	1.22	--	1.34	--	2.39	1.83	--	0.823	0.956	1.04	--	1.18
Chloride	mg/L	2.34	--	2.1	--	2.44	2.37	--	2.8	2.1	3	--	2.3
Fluoride	mg/L	<0.01	--	<0.01	--	<0.01	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
pH_Field	SU	5.39	--	5.33	--	5.49	5.48	--	5.11	5.29	5.09	5.25	5.12
Sulfate	mg/L	<0.3	--	<0.3	--	<0.3	0.493 J	--	<1.4	<1.4	<1.4	--	<1.4
TDS	mg/L	--	25.3	--	--	34.7	33.3	--	--	--	28	--	28.7
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	--	<0.0006	--	<0.0006	0.000701 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Barium	mg/L	0.0396	--	0.0359	--	0.0238	0.029	--	0.0409	0.0303	--	0.0383	0.0633
Beryllium	mg/L	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	0.00214 J	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	0.166 U	--	0.589	--	0.659	0.227 U	--	0.436 U	0.197 U	--	0.896	0.342 U
Fluoride	mg/L	<0.01	--	<0.01	--	<0.01	--	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
Lead	mg/L	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	<0.01	--	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01
Mercury	mg/L	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Selenium	mg/L	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Thallium	mg/L	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-30											
		09/11/2018	11/06/2018	03/26/2019	09/11/2019	04/21/2020	08/18/2020	03/15/2021	08/18/2021	03/28/2022	10/19/2022	05/30/2023	10/24/2023
<b>Appendix III</b>													
Boron	mg/L	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	1.5	1.64	1.3	0.925	0.864	0.926	0.646	0.716	0.542	0.602	0.503	0.529
Chloride	mg/L	1.5 J	1.4 J	2.28	3.72	3.89	3.8	4.38	4.46	4.12	3.7	3.16	2.86
Fluoride	mg/L	--	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.02
pH_Field	SU	5.19	5.12	5.16	4.11	4.44	4.76	5.02	4.01	4.93	5.29	5.15	5.25
Sulfate	mg/L	<1.4	<1.4	<0.5	<0.5	<0.5	<0.5	<0.5	0.754 J	0.951 J	1.27 J	1.44 J	0.867 J
TDS	mg/L	29.3	--	27.3	34	26.7	30	30	28.7	27.3	28	28.7	--
<b>Appendix IV</b>													
Antimony	mg/L	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<8.1e-005	<8.1e-005	<0.000112	<0.000112
Barium	mg/L	--	0.0463	0.104	0.0855	0.0485	0.0529	0.0462	0.0329	0.0286	0.0246	0.0256	0.0218
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	8.19e-005 J	8.39e-005 J	<6.8e-005	0.000108 J	<6.8e-005	<6.8e-005
Chromium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000502 J	0.000326 J	0.000396 J	0.000423 J	0.000347 J	0.000221 J
Cobalt	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000137 J	0.000112 J	7e-005 J	7.98e-005 J	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	--	0.928	1.3	0.995	0.00976 U	3.33	0.601 U	1.22 U	0.714 U	0.481 U	1.19	0.247 U
Fluoride	mg/L	--	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.02
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.005075	<0.005075
Selenium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**  
1. mg/L - Milligrams per Liter  
2. pCi/L - picocuries per Liter  
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-1											
		02/17/2016	04/13/2016	06/01/2016	08/15/2016	10/11/2016	01/24/2017	03/14/2017	05/09/2017	06/27/2017	08/30/2017	02/27/2018	06/04/2018
<b>Appendix III</b>													
Boron	mg/L	0.219	0.211	0.2	0.211	0.23	0.218	--	0.235	0.206	0.138	--	0.242
Calcium	mg/L	204	152	183	197	186	193	--	184	184	182	--	157
Chloride	mg/L	16	21.5	52.5	33.3	22.2	18.4	--	30	29	23	--	22
Fluoride	mg/L	0.05 J	0.061 J	0.079 J	0.081 J	0.049 J	--	0.04 J	0.05 J	0.04 J	0.04 J	0.07 J	0.07 J
pH_Field	SU	5.8	5.85	5.92	5.99	6.02	5.92	5.96	5.93	5.86	5.88	5.92	5.89
Sulfate	mg/L	785	715	832	862	888	906	--	810	830	910	--	850
TDS	mg/L	1540	1200	1440	1420	1420	1350	--	1540	1470	1530	--	1370
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000799 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	0.0181	0.0178	0.016	0.0182	0.0186	0.0173	--	0.0176	0.0165	--	0.0201	0.0195
Barium	mg/L	0.0364	0.0344	0.0353	0.0395	0.0455	0.0428	--	0.0399	0.0348	--	0.0398	0.0314
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	0.0395	0.0452	0.0576	0.0573	0.0531	0.0539	--	0.057	0.0664	--	0.0652	0.0758
Combined Radium 226 + 228	pCi/L	1 U	1.0468 U	1.43	1.42	1.6	1.3	--	0.844	1.32	--	0.815	1.01
Fluoride	mg/L	0.05 J	0.061 J	0.079 J	0.081 J	0.049 J	--	0.04 J	0.05 J	0.04 J	0.04 J	0.07 J	0.07 J
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	0.0194 J	<0.01	--	<0.01	<0.01	--	<0.01	<0.01
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Selenium	mg/L	0.00277 J	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	0.00206 J	--	0.00206 J	<0.002
Thallium	mg/L	0.000601 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-1											
		09/10/2018	11/06/2018	03/27/2019	09/10/2019	04/21/2020	08/17/2020	03/16/2021	08/17/2021	04/04/2022	10/05/2022	05/16/2023	10/24/2023
<b>Appendix III</b>													
Boron	mg/L	--	0.247	0.488	0.398	0.347	0.496	0.313	0.281	0.269	0.202	0.187	0.231
Calcium	mg/L	219	186	73.8	147	90.5	81.5	109	103	106	113	105	132
Chloride	mg/L	22	17	18	18.1	19.5	23.2	16.6	34.4	42.3	7.1	40.8	42
Fluoride	mg/L	--	0.04 J	0.192	0.179	0.12	0.115	0.129	0.158	0.161	0.125	0.144	0.0372 J
pH_Field	SU	5.89	5.95	5.8	5.88	5.72	5.54	5.67	5.49	5.17	5.59	5.45	5.66
Sulfate	mg/L	920	880	1090	992	874	919	933	745	824	737	578	702
TDS	mg/L	1380	1450	1910	1740	1530	1590	1620	1340	1340	1190	1050	1250
<b>Appendix IV</b>													
Antimony	mg/L	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	--	0.0189	0.0267	0.0226	0.0219	0.0265	0.0238	0.0206	0.0164	0.0152	0.012	0.0152
Barium	mg/L	--	0.0348	0.0286	0.0283	0.0206	0.0218	0.024	0.0211	0.0235	0.0256	0.0336	0.036
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	9.17e-005 J	8.91e-005 J	8.86e-005 J
Chromium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000341 J	0.000336 J	0.000449 J	0.000287 J	0.000326 J	0.000512 J
Cobalt	mg/L	--	0.0898	0.176	0.104	0.206	0.195	0.257	0.24	0.296	0.226	0.236	0.202
Combined Radium 226 + 228	pCi/L	--	0.938	1.17	1.39	0.712	1.46	1.45	1.36	0.899	1.12	0.881 U	1.74
Fluoride	mg/L	--	0.04 J	0.192	0.179	0.12	0.115	0.129	0.158	0.161	0.125	0.144	0.0372 J
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	7.91e-005 J
Lithium	mg/L	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.00848 J
Mercury	mg/L	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000117 J	<6.8e-005	<0.000102	<0.000102	<0.005075	<0.005075
Selenium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.00163	0.00209	0.00221	0.000737 J	0.000809 J	0.000763 J
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.000107 J	0.000124 J	0.000155 J	0.000149 J	9.81e-005 J	0.000173 J

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-2											
		02/17/2016	04/13/2016	06/01/2016	08/15/2016	10/11/2016	01/24/2017	03/14/2017	05/09/2017	06/28/2017	08/30/2017	02/27/2018	06/04/2018
<b>Appendix III</b>													
Boron	mg/L	0.146	0.125	0.114	0.128	0.129	0.124	--	0.121	0.111	0.0915 J	--	0.134
Calcium	mg/L	75	70.2	71.2	72.2	73.8	72.2	--	66.4	65.4	67.8	--	68.3
Chloride	mg/L	14.7	14.3	14.6	14.7	14.8	15	--	16	15	15	--	16
Fluoride	mg/L	0.09 J	0.092 J	0.108 J	0.105 J	0.062 J	--	<0.032	0.07 J	0.09 J	0.07 J	0.08 J	0.09 J
pH_Field	SU	6.01	6.17	6.18	6.12	6.09	6.04	6.11	6.1	6.09	6.07	6.09	6.07
Sulfate	mg/L	304	307	273	275	284	302	--	250	230	250	--	260
TDS	mg/L	516	508	494	476	508	510	--	510	480	478	--	528
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.00084 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	0.0142	0.0145	0.0112	0.0154	0.0113	0.0115	--	0.00989	0.00848	--	0.0106	0.0124
Barium	mg/L	0.0311	0.0334	0.029	0.0317	0.0339	0.0276	--	0.0285	0.0273	--	0.0292	0.0298
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	0.00989 J	0.0106	0.011	0.0117	0.0117	0.00863 J	--	0.00975 J	0.0102	--	0.00924 J	0.00866 J
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.758	0.638	0.701	0.515 U	--	0.393 U	0.374	--	0.334 U	0.64
Fluoride	mg/L	0.09 J	0.092 J	0.108 J	0.105 J	0.062 J	--	<0.032	0.07 J	0.09 J	0.07 J	0.08 J	0.09 J
Lead	mg/L	<0.001	<0.001	<0.001	0.00104 J	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Thallium	mg/L	0.000388 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-2											
		09/10/2018	11/06/2018	03/27/2019	09/09/2019	04/21/2020	08/17/2020	03/16/2021	08/17/2021	03/28/2022	10/05/2022	05/17/2023	10/24/2023
<b>Appendix III</b>													
Boron	mg/L	--	0.131	0.138	0.157	0.14	0.152	0.134	0.131	0.127	0.132	0.143	0.143
Calcium	mg/L	73.9	75.1	96.1	111	133	156	145	143	164	179	204	201
Chloride	mg/L	17	17	14.8	14	12.3	13.1	11.6	12.7	11.5	12.3	9.92	10.7
Fluoride	mg/L	--	0.07 J	0.089 J	0.163	0.126	0.0753 J	0.185	0.0974 J	<0.06	0.124 J	0.0918 J	0.06
pH_Field	SU	6	6.04	6.06	6.13	5.99	5.91	5.87	5.99	5.32	6.01	5.79	6.01
Sulfate	mg/L	280	280	375	385	522	497	548	502	563	590	689	606
TDS	mg/L	472	522	562	666	878	818	890	808	892	864	1030	1020
<b>Appendix IV</b>													
Antimony	mg/L	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	--	0.0085	0.0101	0.022	0.013	0.00768	0.0045	0.00514	0.00381	0.00331	0.00431	0.00587
Barium	mg/L	--	0.0286	0.0311	0.035	0.0335	0.0376	0.033	0.0347	0.031	0.0344	0.0298	0.0373
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00013 J	<6.8e-005	0.000115 J	<6.8e-005	7.74e-005 J	<6.8e-005
Chromium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.0004 J	0.00267	0.000304 J	0.000256 J	0.000305 J	0.000356 J
Cobalt	mg/L	--	0.0101	0.0131	0.0154	0.0194	0.0249	0.0272	0.0296	0.0324	0.0293	0.0394	0.0378
Combined Radium 226 + 228	pCi/L	--	0.803	0.77	0.3 U	0.663 U	0.817	1.05 U	2.01	0.745 U	1.89	1.32	1.3
Fluoride	mg/L	--	0.07 J	0.089 J	0.163	0.126	0.0753 J	0.185	0.0974 J	<0.06	0.124 J	0.0918 J	0.06
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000736	0.000591	0.000588	0.000453	0.000464	0.000828
Lithium	mg/L	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	8.04e-005 J	0.00017 J	<0.000102	<0.000102	<0.005075	<0.005075
Selenium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	0.000542 J	0.000585 J	<0.000508	<0.000508	<0.000508
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.000101 J	0.000132 J	0.000158 J	0.000158 J	9.43e-005 J	0.000136 J

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-3											
		02/17/2016	04/12/2016	06/01/2016	08/15/2016	10/11/2016	01/24/2017	03/14/2017	05/09/2017	06/28/2017	08/30/2017	02/27/2018	06/04/2018
<b>Appendix III</b>													
Boron	mg/L	0.0288 J	0.0293 J	0.0279 J	0.0332 J	0.0328 J	0.0262 J	--	0.0298 J	0.0226 J	<0.02	--	0.0296 J
Calcium	mg/L	106	95.2	86.1	89.7	90.6	94.2	--	90.3	80.7	84	--	98.8
Chloride	mg/L	25.2	24.6	24.5	24.2	24.4	24.6	--	27	26	26	--	27
Fluoride	mg/L	0.08 J	0.083 J	0.118 J	0.109 J	0.066 J	--	0.07 J	0.09 J	0.1	0.12	0.09 J	0.1
pH_Field	SU	6.29	6.33	6.4	6.36	6.38	6.34	6.42	6.35	6.32	6.32	6.39	6.4
Sulfate	mg/L	<0.3	0.49 J	0.544 J	0.332 J	<0.3	<0.3	--	2.1 J	<1.4	<1.4	--	1.4 J
TDS	mg/L	358	393	381	348	379	354	--	368	368	370	--	369
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000906 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	0.00668	0.00827	0.00768	0.00798	0.008	0.00722	--	0.00766	0.00745	--	0.00699	0.00731
Barium	mg/L	0.0896	0.0994	0.104	0.102	0.11	0.0942	--	0.105	0.104	--	0.0989	0.0936
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	0.00507 J	0.0047 J	0.00372 J	0.0039 J	0.00415 J	0.00383 J	--	0.00396 J	0.00336 J	--	0.00442 J	0.0038 J
Combined Radium 226 + 228	pCi/L	1 U	1 U	1.06	0.972	0.802	1.1	--	0.74	0.867	--	0.905	0.954
Fluoride	mg/L	0.08 J	0.083 J	0.118 J	0.109 J	0.066 J	--	0.07 J	0.09 J	0.1	0.12	0.09 J	0.1
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Thallium	mg/L	0.00038 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-3											
		09/12/2018	11/06/2018	03/27/2019	09/09/2019	04/20/2020	08/17/2020	03/16/2021	08/17/2021	04/05/2022	10/05/2022	05/17/2023	10/24/2023
<b>Appendix III</b>													
Boron	mg/L	--	0.0268 J	0.0316 J	0.035 J	<0.03	0.0636 J	0.0445 J	0.0518 J	0.0453 J	0.0404 J	0.0456 J	0.0481 J
Calcium	mg/L	109	110	111	98.5	91.2	78.9	66.6	55.4	67.4	54.5	56.8	64.4
Chloride	mg/L	26	26	24.8	23.8	24.5	24.6	24.4	21.3	20.9	23.1	21.6	21
Fluoride	mg/L	--	0.1	0.13	0.121	0.112	0.148	0.23	0.184	0.185	0.12 J	0.147	0.166
pH_Field	SU	6.35	6.34	6.44	6.22	6.4	5.85	6.23	6.13	6.27	5.89	5.94	6.22
Sulfate	mg/L	<1.4	<1.4	6.64	6.56	10.5	17.3	7.62	12	14.7	5.11	19.6	18.7
TDS	mg/L	354	354	362	371	371	361	340	297	337	319	349	332
<b>Appendix IV</b>													
Antimony	mg/L	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	--	0.00685	0.00596	0.00806	0.00751	0.00909	0.0112	0.0119	0.01	0.0119	0.0116	0.0121
Barium	mg/L	--	0.0936	0.0951	0.111	0.109	0.139	0.159	0.15	0.145	0.138	0.153	0.142
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000347 J	0.000324 J	0.00039 J	0.000286 J	0.000301 J	0.000295 J
Cobalt	mg/L	--	0.00439 J	0.00463 J	0.00413 J	0.00396 J	<0.002	0.00076	0.000388	0.000826	0.000297	0.000658	0.000413
Combined Radium 226 + 228	pCi/L	--	1.27	1.47	1.12	0.899	0.738	0.553 U	1.09	0.532 U	0.688 U	1.1 U	0.618 U
Fluoride	mg/L	--	0.1	0.13	0.121	0.112	0.148	0.23	0.184	0.185	0.12 J	0.147	0.166
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	9.7e-005 J
Lithium	mg/L	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.005075	<0.005075
Selenium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000959 J	0.000974 J	0.000744 J	0.000612 J	0.000551 J	0.000538 J
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-5											
		02/17/2016	04/12/2016	05/31/2016	08/17/2016	10/11/2016	01/24/2017	03/14/2017	05/09/2017	06/28/2017	08/30/2017	02/27/2018	06/05/2018
<b>Appendix III</b>													
Boron	mg/L	0.478	0.467	0.443	0.477	0.489	0.475	--	0.479	0.448	0.407	--	0.489
Calcium	mg/L	59.8	56.1	56.6	61	61.3	61	--	61.7	66.1	78.9	--	64.8
Chloride	mg/L	16.4	16.6	16.8	16.4	15.2	15.1	--	17	17	17	--	15
Fluoride	mg/L	0.22 J	0.214 J	0.232 J	0.225 J	0.19 J	--	0.22	0.21	0.21	0.25	0.23	0.24
pH_Field	SU	6.63	6.59	6.57	6.72	6.69	6.61	6.55	6.65	6.66	6.66	6.73	6.63
Sulfate	mg/L	<0.3	0.483 J	0.518 J	3.63	15.6	28.9	--	25	45	96	--	36
TDS	mg/L	238	316	320	325	333	336	--	317	373	432	--	347
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000728 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	0.353	0.402	0.33	0.369	0.378	0.386	--	0.406	0.353	--	0.425	0.454
Barium	mg/L	0.397	0.434	0.354	0.397	0.485	0.472	--	0.512	0.48	--	0.269	0.27
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	0.0216	0.0205	0.0196	0.0169	0.0157	0.00858 J	--	0.00755 J	0.0069 J	--	0.00471 J	0.00481 J
Combined Radium 226 + 228	pCi/L	1 U	1.01205 U	2.11	2.28	1.83	1.92	--	3.05	2.24	--	1.01	1.39
Fluoride	mg/L	0.22 J	0.214 J	0.232 J	0.225 J	0.19 J	--	0.22	0.21	0.21	0.25	0.23	0.24
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	0.0883	0.0862	0.085	0.093	0.0928	0.094	--	0.0865	0.0879	--	0.113	0.101
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	0.00347 J	0.00297 J	0.00261 J	0.0033 J	0.0041 J	0.00336 J	--	0.0031 J	0.00356 J	--	0.0042 J	0.00293 J
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Thallium	mg/L	0.000779 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-5											
		09/11/2018	11/06/2018	03/27/2019	09/11/2019	04/21/2020	08/12/2020	03/16/2021	08/23/2021	04/04/2022	10/17/2022	05/17/2023	10/24/2023
<b>Appendix III</b>													
Boron	mg/L	--	0.508	0.502	0.595	0.72	0.695	0.694	0.628	0.615	0.599	0.515	0.552
Calcium	mg/L	72.2	78.9	69.1	90.8	93	92.2	99.7	87.6	98.8	119	111	101
Chloride	mg/L	14	13	16.1	11.6	12.3	13	10.9	11.6	9.63	10.8	8.4	10.7
Fluoride	mg/L	--	0.22	0.208	0.2	0.224	0.221	0.282	0.322	0.216	0.192	0.24	0.208
pH_Field	SU	6.65	6.65	6.59	6.36	6.5	6.36	6.64	6.5	6.42	6.71	6.64	6.61
Sulfate	mg/L	48	93	33.4	149	163	132	167	155	160	154	163	150
TDS	mg/L	370	409	328	455	494	433	510	481	488	483	496	462
<b>Appendix IV</b>													
Antimony	mg/L	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	--	0.432	0.455	0.406	0.42	0.415	0.473	0.368	0.432	0.366	0.405	0.382
Barium	mg/L	--	0.306	0.251	0.323	0.138	0.134	0.143	0.139	0.131	0.134	0.136	0.142
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000285 J	0.000272 J	0.000249 J	0.000348 J	<0.000203	0.00036 J
Cobalt	mg/L	--	0.00545	0.00614	0.00767	0.00601	0.00678	0.00857	0.00645	0.0104	0.0062	0.00833	0.0082
Combined Radium 226 + 228	pCi/L	--	1.72	1.56	1.46	0.882	2.08	1.71	2.11	1.13	1.93	1.25 U	1.03 U
Fluoride	mg/L	--	0.22	0.208	0.2	0.224	0.221	0.282	0.322	0.216	0.192	0.24	0.208
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000118 J
Lithium	mg/L	--	0.116	0.0988	0.117	0.13	0.132	0.149	0.116	0.102	0.0901	0.0817	0.0814
Mercury	mg/L	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	--	0.00318 J	0.00284 J	0.00328 J	0.00255 J	0.00292 J	0.00358	0.0031	0.00354	0.00287	<0.005075	<0.005075
Selenium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-6											
		02/17/2016	04/12/2016	05/31/2016	08/17/2016	10/11/2016	01/24/2017	03/14/2017	05/10/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018
<b>Appendix III</b>													
Boron	mg/L	2.12	2.06	1.97	2.01	1.91	1.62	--	1.62	1.71	1.7	--	1.56
Calcium	mg/L	128	115	118	120	119	110	--	104	98	108	--	121
Chloride	mg/L	31.8	28.9	28.7	32.2	34.2	38.1	--	41	36	35	--	32
Fluoride	mg/L	0.17 J	0.203 J	0.212 J	0.19 J	0.15 J	--	0.18	0.19	0.18	0.22	0.22	0.23
pH_Field	SU	6.46	6.45	6.51	6.54	6.53	6.44	6.4	6.4	6.46	6.47	6.53	6.49
Sulfate	mg/L	132	130	111	95.8	101	129	--	120	100	95	--	98
TDS	mg/L	640	610	626	628	636	696	--	687	622	616	--	582
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000792 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Barium	mg/L	0.0455	0.0455	0.0407	0.0434	0.0514	0.0476	--	0.0543	0.0402	--	0.0463	0.051
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	0.00389 J	0.00234 J	0.00202 J	<0.002	--	<0.002	<0.002	--	<0.002	0.00237 J
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.453 U	0.381 U	0.139 U	0.496	--	0.278 U	0.724	--	0.214 U	0.176 U
Fluoride	mg/L	0.17 J	0.203 J	0.212 J	0.19 J	0.15 J	--	0.18	0.19	0.18	0.22	0.22	0.23
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.0591	--	0.0519	0.0403 J	--	0.0201 J	0.0218 J
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Thallium	mg/L	0.000639 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-6											
		09/11/2018	11/07/2018	03/26/2019	09/10/2019	04/21/2020	08/19/2020	03/09/2021	08/24/2021	03/29/2022	10/18/2022	05/30/2023	10/25/2023
<b>Appendix III</b>													
Boron	mg/L	--	1.6	1.63	1.83	1.77	1.86	1.49	1.36	1.39	1.16	1.09	0.93
Calcium	mg/L	119	124	148	164	142	162	119	129	128	159	138	147
Chloride	mg/L	36	30	31.9	27.3	37.4	39.6	47.5	56.6	45.3	45	39.4	40.5
Fluoride	mg/L	--	0.22	0.253	0.227	0.218	0.223	0.17	0.161	0.193	0.154	0.193	0.143
pH_Field	SU	6.48	6.48	6.54	6.55	6.54	6.49	6.43	6.22	5.99	6.38	6.5	6.41
Sulfate	mg/L	100	97	120	140	153	163	187	210	190	194	210	203
TDS	mg/L	616	576	682	744	742	788	716	792	722	756	818	790
<b>Appendix IV</b>													
Antimony	mg/L	--	<0.0008	0.00141 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000303	0.000279	0.000128 J	0.000255	<0.000112	0.000206
Barium	mg/L	--	0.0527	0.0682	0.0789	0.0728	0.0784	0.0664	0.0737	0.0614	0.0619	0.0665	0.0633
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00278	0.000181 J	0.000497	<6.8e-005	8.05e-005 J	7.64e-005 J
Chromium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000347 J	0.000262 J	<0.000203	0.000273 J	0.000234 J	<0.000203
Cobalt	mg/L	--	0.00258 J	0.00223 J	0.00306 J	0.00228 J	0.00278 J	0.00367	0.00419	0.00223	0.00233	0.00194	0.00284
Combined Radium 226 + 228	pCi/L	--	1.39	0.904	1.14	0.679 U	0.96	1.12 U	0.645 U	0.394 U	1.02	0.77 U	0.117 U
Fluoride	mg/L	--	0.22	0.253	0.227	0.218	0.223	0.17	0.161	0.193	0.154	0.193	0.143
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	--	0.0141 J	0.0192 J	0.0267	0.0518	0.0197 J	0.013 J	0.00951 J	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.0024	0.00211	0.00142	0.00149	<0.005075	<0.005075
Selenium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-7											
		02/17/2016	04/13/2016	05/31/2016	08/17/2016	10/12/2016	01/25/2017	03/14/2017	05/10/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018
<b>Appendix III</b>													
Boron	mg/L	0.503	0.478	0.452	0.492	0.487	0.529	--	0.533	0.501	0.51	--	0.605
Calcium	mg/L	158	151	158	152	150	137	--	111	108	113	--	186
Chloride	mg/L	62.7	57.8	55.6	53.3	51.2	44.8	--	44	45	43	--	49
Fluoride	mg/L	0.07 J	0.081 J	0.103 J	0.078 J	0.041 J	--	0.07 J	0.09 J	0.08 J	0.09 J	0.08 J	0.08 J
pH_Field	SU	6.45	6.49	6.43	6.43	6.46	6.43	6.41	6.41	6.46	6.46	6.45	6.36
Sulfate	mg/L	311	330	324	306	296	243	--	210	210	220	--	390
TDS	mg/L	892	1010	1100	1070	1040	972	--	740	914	924	--	1060
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000839 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Barium	mg/L	0.0772	0.0886	0.0823	0.0789	0.0883	0.067	--	0.0644	0.0582	--	0.0669	0.0672
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	<0.002	0.00218 J	0.00328 J	0.00217 J	0.00225 J	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.658	0.936	0.668	0.718	--	0.56	0.526	--	0.803	0.577
Fluoride	mg/L	0.07 J	0.081 J	0.103 J	0.078 J	0.041 J	--	0.07 J	0.09 J	0.08 J	0.09 J	0.08 J	0.08 J
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Thallium	mg/L	0.00042 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-7											
		09/11/2018	11/07/2018	03/26/2019	09/10/2019	04/21/2020	08/19/2020	03/09/2021	08/24/2021	03/29/2022	10/18/2022	05/30/2023	10/25/2023
<b>Appendix III</b>													
Boron	mg/L	--	0.677	0.727	0.764	0.793	0.561	0.397	0.216	0.0842 J	0.0589 J	0.0498 J	0.0465 J
Calcium	mg/L	209	175	193	188	155	147	160	123	126	158	140	170
Chloride	mg/L	52	58	71	67	66.2	123	80.7	91.7	94.7	196	208	170
Fluoride	mg/L	--	0.08 J	0.106	0.086 J	0.0951 J	0.103	0.0949 J	0.1	0.104 J	0.0649 J	0.111 J	0.0713
pH_Field	SU	6.38	6.37	6.39	6.39	6.39	6.14	6.45	6.4	6.62	6.37	6.42	6.57
Sulfate	mg/L	360	390	430	409	318	296	347	234	187	256	236	257
TDS	mg/L	1020	1050	1100	1100	1010	1050	1090	930	894	1040	1000	1010
<b>Appendix IV</b>													
Antimony	mg/L	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	0.000747 J	0.000659 J	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.00015 J	9.91e-005 J	8.41e-005 J	0.000148 J	<0.000112	0.000362
Barium	mg/L	--	0.0739	0.0796	0.0887	0.0762	0.0816	0.083	0.0782	0.0639	0.084	0.0795	0.0645
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000292
Chromium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000351 J	0.000363 J	0.000239 J	0.000297 J	0.000284 J	0.000431 J
Cobalt	mg/L	--	0.00277 J	0.0024 J	0.0034 J	0.00206 J	0.0046 J	0.00181	0.00333	0.0014	0.00301	0.00279	0.00215
Combined Radium 226 + 228	pCi/L	--	1.51	0.841	0.569 U	0.549 U	1.04	0.545 U	0.865 U	0.575 U	1.19	0.777 U	0.513 U
Fluoride	mg/L	--	0.08 J	0.106	0.086 J	0.0951 J	0.103	0.0949 J	0.1	0.104 J	0.0649 J	0.111 J	0.0713
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.00036
Lithium	mg/L	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000156 J	0.000128 J	0.000161 J	0.00012 J	<0.005075	<0.005075
Selenium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-8											
		02/16/2016	04/13/2016	06/01/2016	08/17/2016	10/12/2016	01/25/2017	03/15/2017	05/10/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018
<b>Appendix III</b>													
Boron	mg/L	1.54	1.56	1.49	1.57	1.65	1.89	--	1.94	1.72	1.63	--	1.73
Calcium	mg/L	75.9	74.1	76.4	74.2	75.7	76.1	--	78.6	76.4	74.1	--	58
Chloride	mg/L	67.9	64.1	66.3	56.7	56.1	53.6	--	48	49	52	--	38
Fluoride	mg/L	0.08 J	0.088 J	0.109 J	0.089 J	0.048 J	--	0.08 J	0.1	0.09 J	0.11	0.11	0.11
pH_Field	SU	6.16	6.29	6.33	6.27	6.3	6.27	6.27	6.25	6.25	6.32	6.36	6.3
Sulfate	mg/L	49.4	51.7	51.2	42.9	39.5	31.3	--	30	35	40	--	25
TDS	mg/L	656	634	672	624	586	596	--	576	612	640	--	474
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000833 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Barium	mg/L	0.117	0.113	0.105	0.105	0.111	0.0963	--	0.103	0.0935	--	0.0808	0.0789
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	0.0129	0.0139	0.0139	0.0138	0.0138	0.0115	--	0.0125	0.0137	--	0.00698 J	0.00478 J
Combined Radium 226 + 228	pCi/L	1 U	1.08755 U	0.884	1.06	0.269 U	1.12	--	0.887	0.908	--	0.131 U	0.564
Fluoride	mg/L	0.08 J	0.088 J	0.109 J	0.089 J	0.048 J	--	0.08 J	0.1	0.09 J	0.11	0.11	0.11
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	0.0101 J	0.0143 J	0.0166 J	0.0272 J	--	0.0436 J	0.0401 J	--	0.0309 J	0.0286 J
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-8											
		09/11/2018	11/07/2018	03/26/2019	09/10/2019	04/21/2020	08/19/2020	03/09/2021	08/24/2021	03/29/2022	10/18/2022	05/30/2023	10/25/2023
<b>Appendix III</b>													
Boron	mg/L	--	1.8	1.81	1.82	1.89	1.94	1.57	1.23	1.08	0.815	0.794	0.709
Calcium	mg/L	64.9	68.1	72	91	84.8	98.6	100	86.4	92.8	93.8	87	92.7
Chloride	mg/L	37	41	39.7	56.1	69.5	70.5	106	90.8	95.4	96.1	76.6	69.9
Fluoride	mg/L	--	0.11	0.162	0.113	0.114	0.116	0.109	0.141	0.108 J	0.0981 J	0.179	0.105
pH_Field	SU	6.36	6.31	6.32	6.31	6.06	6.06	6.31	6.16	6.21	6.45	6.62	6.47
Sulfate	mg/L	23	30	21.6	37.4	43.3	44.5	71.7	71.4	75.3	84.8	69.5	91.7
TDS	mg/L	496	514	546	602	638	658	746	690	730	700	676	702
<b>Appendix IV</b>													
Antimony	mg/L	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000248	0.000271	0.000146 J	0.000261	0.000274	0.000184 J
Barium	mg/L	--	0.0855	0.0911	0.11	0.116	0.119	0.15	0.122	0.104	0.107	0.136	0.114
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.000241	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000346 J	0.000313 J	0.000267 J	0.000217 J	0.000233 J	<0.000203
Cobalt	mg/L	--	0.00651	0.00445 J	0.0108	0.0111	0.00975	0.00707	0.00898	0.00619	0.00537	0.00504	0.00679
Combined Radium 226 + 228	pCi/L	--	0.34 U	0.507	0.898	1.09	0.6 U	1.6	1.67	0.621 U	0.741 U	1.17	1.02 U
Fluoride	mg/L	--	0.11	0.162	0.113	0.114	0.116	0.109	0.141	0.108 J	0.0981 J	0.179	0.105
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	--	0.0371	0.0537	0.0928	0.0582	0.0511	0.0249	0.0155 J	0.00828 J	<0.007105	<0.007105	<0.007105
Mercury	mg/L	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	8.12e-005 J	<6.8e-005	<0.000102	<0.000102	<0.005075	<0.005075
Selenium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-9											
		02/16/2016	04/13/2016	06/01/2016	08/17/2016	10/12/2016	01/25/2017	03/15/2017	05/10/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018
<b>Appendix III</b>													
Boron	mg/L	0.412	0.376	0.338	0.412	0.46	0.586	--	0.661	0.673	0.723	--	0.954
Calcium	mg/L	33.9	32.5	33.9	50.3	53.3	59.9	--	66.5	69.8	72	--	95.1
Chloride	mg/L	15.6	14.3	12.6	14.4	16.4	20	--	24	25	25	--	25
Fluoride	mg/L	0.16 J	0.15 J	0.19 J	0.171 J	0.137 J	--	0.15	0.17	0.16	0.19	0.19	0.19
pH_Field	SU	6.5	6.32	6.43	6.46	6.53	6.45	6.39	6.39	6.4	6.47	6.54	6.47
Sulfate	mg/L	45.2	43.9	32	31.9	39.6	44	--	32	34	34	--	22
TDS	mg/L	226	202	224	290	315	332	--	361	396	402	--	448
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000847 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	0.00507	0.00556	0.00625	0.00648	0.00772	0.00728	--	0.00818	0.00718	--	0.00946	0.00921
Barium	mg/L	0.0637	0.0552	0.0555	0.0745	0.0897	0.0864	--	0.105	0.0897	--	0.118	0.111
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	0.00869 J	0.00936 J	0.00976 J	0.012	0.0127	0.0109	--	0.0129	0.0125	--	0.013	0.0113
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.532	1.07	1.07	1.46	--	1.21	0.821	--	0.232 U	0.722
Fluoride	mg/L	0.16 J	0.15 J	0.19 J	0.171 J	0.137 J	--	0.15	0.17	0.16	0.19	0.19	0.19
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	0.0359 J	0.0276 J	0.0296 J	0.0398 J	0.0433 J	0.0366 J	--	0.039 J	0.0345 J	--	0.0349 J	0.0338 J
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-9											
		09/11/2018	11/07/2018	03/26/2019	09/10/2019	04/21/2020	08/18/2020	03/09/2021	08/24/2021	03/29/2022	10/18/2022	05/30/2023	10/25/2023
<b>Appendix III</b>													
Boron	mg/L	--	1.11	1.14	1.23	1.27	1.24	1.12	1.14	0.72	1.15	1.05	1.13
Calcium	mg/L	122	107	132	116	111	109	82.1	93.1	69.7	111	91.1	82
Chloride	mg/L	26	25	25.3	28	24.2	31.4	53.9	90.7	225	106	105	62.3
Fluoride	mg/L	--	0.2	0.223	0.178	0.181	0.177	0.147	0.164	<0.06	0.156	0.127	0.104
pH_Field	SU	6.53	6.49	6.47	6.43	6.25	6.21	6.14	6.08	5.61	6.27	6.38	6.22
Sulfate	mg/L	33	76	138	115	133	115	107	139	187	171	135	81.3
TDS	mg/L	462	506	586	586	578	542	532	624	776	692	646	525
<b>Appendix IV</b>													
Antimony	mg/L	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	--	0.0098	0.00969	0.0108	0.0102	0.0108	0.0105	0.00695	0.00331	0.00787	0.0107	0.0116
Barium	mg/L	--	0.141	0.175	0.206	0.175	0.165	0.16	0.168	0.139	0.147	0.15	0.126
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000308
Chromium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000381 J	0.000302 J	0.00027 J	0.000238 J	0.000368 J	0.000263 J
Cobalt	mg/L	--	0.0145	0.0167	0.0177	0.0166	0.0164	0.0247	0.0323	0.0267	0.0297	0.0258	0.0238
Combined Radium 226 + 228	pCi/L	--	0.82	1.49	1.75	1.31	1.59	1.16 U	1.43	1.25	1.29	2.26	1.6
Fluoride	mg/L	--	0.2	0.223	0.178	0.181	0.177	0.147	0.164	<0.06	0.156	0.127	0.104
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	7.84e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000163 J
Lithium	mg/L	--	0.0616	0.0931	0.128	0.0693	0.0591	0.0417	0.0383	0.0126 J	0.0189 J	0.0188 J	0.0121 J
Mercury	mg/L	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.005075	<0.005075
Selenium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-10											
		02/16/2016	04/13/2016	05/31/2016	08/16/2016	10/12/2016	01/25/2017	03/15/2017	05/10/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018
<b>Appendix III</b>													
Boron	mg/L	1.44	0.373	1.26	1.34	1.34	1.38	--	1.23	1.05	1.17	--	1.31
Calcium	mg/L	76.3	30.5	65.9	65.6	63.4	64.2	--	62.6	60.8	61.4	--	65.5
Chloride	mg/L	18.4	19	19.2	17.7	16.8	18.6	--	22	20	20	--	18
Fluoride	mg/L	0.23 J	0.236 J	0.255 J	0.238 J	0.198 J	--	0.22	0.25	0.09 J	0.26	0.26	0.24
pH_Field	SU	6.29	6.21	6.45	6.58	6.6	6.47	6.54	6.53	6.49	6.49	6.59	6.52
Sulfate	mg/L	9.03	10.7	10.2	9.1	7.24	9.71	--	11	10	14	--	39
TDS	mg/L	312	324	333	327	312	286	--	326	304	348	--	346
<b>Appendix IV</b>													
Antimony	mg/L	0.000786 J	<0.0006	<0.0006	<0.0006	<0.0006	0.00128 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	0.0123	0.0143	0.0125	0.0128	0.0145	0.0122	--	0.0135	0.0131	--	0.0146	0.0233
Barium	mg/L	0.179	0.185	0.158	0.16	0.17	0.156	--	0.169	0.144	--	0.172	0.173
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	0.0135	0.0155	0.0146	0.016	0.0154	0.0139	--	0.0144	0.0134	--	0.0148	0.0139
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.899	0.82	0.92	1.2	--	0.665	0.29 U	--	0.558	0.698
Fluoride	mg/L	0.23 J	0.236 J	0.255 J	0.238 J	0.198 J	--	0.22	0.25	0.09 J	0.26	0.26	0.24
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	0.115	0.135	0.127	0.124	0.101	0.109	--	0.101	0.0954	--	0.111	0.104
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	0.0101	0.0127	0.0106	0.00991 J	0.00919 J	0.0101	--	0.00984 J	0.0102	--	0.011	0.00752 J
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-10											
		09/11/2018	11/07/2018	03/27/2019	09/10/2019	04/22/2020	08/18/2020	03/15/2021	08/24/2021	04/04/2022	10/18/2022	05/24/2023	11/01/2023
<b>Appendix III</b>													
Boron	mg/L	--	1.26	1.11	1.27	1.23	1.37	1.79	1.93	1.92	2.13	2.3	2.23
Calcium	mg/L	66.1	68.5	71.8	69.3	62.9	74.4	73.8	83.4	93.7	105	108	105
Chloride	mg/L	19	19	17.1	16.5	17.6	21.3	23.2	22.4	16.8	17.2	13.5	15.3
Fluoride	mg/L	--	0.25	0.206	0.226	0.224	0.203	0.324	0.277	0.276	0.248	0.303	0.222
pH_Field	SU	6.53	6.51	6.53	6.33	6.44	6.33	6.29	6.04	6.21	6.62	6.59	6.91
Sulfate	mg/L	29	45	66.2	50.5	63.2	58.6	68.5	71.6	122	104	119	124
TDS	mg/L	335	342	347	351	338	376	406	423	452	449	490	452
<b>Appendix IV</b>													
Antimony	mg/L	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	--	0.0152	0.014	0.0132	0.0121	0.0121	0.0125	0.0129	0.0117	0.0117	0.0123	0.013
Barium	mg/L	--	0.171	0.167	0.199	0.186	0.223	0.261	0.287	0.26	0.248	0.269	0.259
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000357 J	0.000356 J	<0.000203	0.000217 J	0.000338 J	0.000231 J
Cobalt	mg/L	--	0.015	0.014	0.0191	0.0233	0.0287	0.0475	0.0514	0.0218	0.0223	0.0176	0.0177
Combined Radium 226 + 228	pCi/L	--	0.568	0.988	1.1	1.11	1.08	1.12 U	1.45	2.08	1.04	1.6	1.79
Fluoride	mg/L	--	0.25	0.206	0.226	0.224	0.203	0.324	0.277	0.276	0.248	0.303	0.222
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	--	0.11	0.115	0.112	0.123	0.124	0.155	0.198	0.329	0.241	0.223	0.152
Mercury	mg/L	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	--	0.00748 J	0.00778 J	0.00757 J	0.00747 J	0.00808 J	0.0103	0.0132	0.0117	0.0075	0.00638 J	<0.005075
Selenium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-11											
		02/17/2016	04/13/2016	05/31/2016	08/16/2016	10/12/2016	01/25/2017	03/14/2017	05/09/2017	06/28/2017	08/29/2017	02/27/2018	06/05/2018
<b>Appendix III</b>													
Boron	mg/L	0.581	0.61	0.615	0.554	0.537	0.562	--	0.528	0.313	0.241	--	0.311
Calcium	mg/L	18.6	17.8	17.7	18.4	17.3	16.6	--	18	22.6	23.9	--	25.7
Chloride	mg/L	16.6	17	19	17	16.2	18	--	23	24	15	--	16
Fluoride	mg/L	0.11 J	0.119 J	0.134 J	0.116 J	0.076 J	--	0.09 J	0.11	0.17	0.14	0.14	0.16
pH_Field	SU	6.04	6.07	6.03	6.09	6.06	5.94	6.08	6.07	6.02	6.19	6.21	6.27
Sulfate	mg/L	40.2	33.1	28.1	38.5	38.3	32	--	44	88	110	--	79
TDS	mg/L	158	161	173	173	173	161	--	195	227	229	--	200
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000896 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Arsenic	mg/L	0.00437 J	0.00695	0.0063	0.0068	0.00709	0.00718	--	0.00819	0.00664	--	0.00733	0.00637
Barium	mg/L	0.105	0.106	0.0907	0.0989	0.113	0.103	--	0.125	0.103	--	0.0718	0.0643
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	0.0504	0.0448	0.0405	0.0464	0.0489	0.0417	--	0.0471	0.0664	--	0.0438	0.036
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.145 U	0.521 U	0.669 U	0.789	--	0.647	0.415	--	0.864	0.244 U
Fluoride	mg/L	0.11 J	0.119 J	0.134 J	0.116 J	0.076 J	--	0.09 J	0.11	0.17	0.14	0.14	0.16
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	0.0777	0.073	0.0721	0.075	0.0703	0.0683	--	0.0646	0.109	--	0.11	0.102
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	0.00651 J	0.00646 J	0.00546 J	0.00582 J	0.00589 J	0.00556 J	--	0.0058 J	0.00616 J	--	0.00962 J	0.00984 J
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Thallium	mg/L	0.000869 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-11											
		09/10/2018	11/05/2018	03/27/2019	09/10/2019	04/22/2020	08/18/2020	03/10/2021	08/25/2021	03/30/2022	10/17/2022	05/17/2023	10/25/2023
<b>Appendix III</b>													
Boron	mg/L	--	0.262	0.298	0.141	0.447	0.358	0.502	0.601	0.472	0.63	0.691	0.625
Calcium	mg/L	27.2	24.1	31	27.7	36.7	37.6	39.9	57.6	39.6	60.6	57.8	62.4
Chloride	mg/L	13	13	14.2	8.88	20.5	16.2	17.1	14.4	12.7	22.4	18.8	19.1
Fluoride	mg/L	--	0.15	0.104	0.191	0.167	0.165	0.0749 J	0.135	<0.06	0.118 J	0.157	0.141
pH_Field	SU	6.33	6.26	6.37	5.91	6.26	6	5.97	6.38	6.02	6.28	6.21	6.36
Sulfate	mg/L	80	81	83.2	87.2	58.7	81.1	73.2	126	125	144	150	165
TDS	mg/L	183	193	211	201	249	260	274	358	280	323	354	374
<b>Appendix IV</b>													
Antimony	mg/L	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	--	0.00195 J	0.00573	0.00378 J	0.00616	0.00457 J	0.00317	0.00518	0.000959	0.00251	0.00314	0.0049
Barium	mg/L	--	0.0588	0.0678	0.0651	0.0967	0.0866	0.0637	0.104	0.0485	0.0611	0.0705	0.0747
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.000347	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000203	0.000267 J	0.000244 J	0.000286 J	0.000293 J	<0.000203
Cobalt	mg/L	--	0.0171	0.0292	0.02	0.0319	0.0298	0.0197	0.0507	0.0157	0.0256	0.0296	0.0349
Combined Radium 226 + 228	pCi/L	--	0.682	0.564	0.57	0.502 U	0.457 U	0.666 U	0.729 U	0.597 U	0.175 U	0.741 U	1.2
Fluoride	mg/L	--	0.15	0.104	0.191	0.167	0.165	0.0749 J	0.135	<0.06	0.118 J	0.157	0.141
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	--	0.0641	0.119	0.124	0.126	0.109	0.0826	0.132	0.0619	0.0928	0.124	0.2
Mercury	mg/L	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.000321 J
Molybdenum	mg/L	--	0.00944 J	0.0151	0.0205	0.0147	0.0146	0.00701	0.0106	0.00403	0.0119	0.017	0.0177
Selenium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	8.7e-005 J	9.4e-005 J	7.45e-005 J	<6.8e-005	7.34e-005 J	0.0001 J

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-12											
		02/16/2016	04/13/2016	05/31/2016	08/16/2016	10/12/2016	01/25/2017	03/15/2017	05/09/2017	06/28/2017	08/29/2017	02/28/2018	06/06/2018
<b>Appendix III</b>													
Boron	mg/L	0.273	0.276	0.291	0.268	0.252	0.167	--	0.32	0.231	0.191	--	0.26
Calcium	mg/L	34.6	32.2	28.8	24	27.8	33.7	--	35.5	28	26.4	--	30.1
Chloride	mg/L	10.8	8.2	7.74	12.5	15.7	24.4	--	15	12	10	--	11
Fluoride	mg/L	0.16 J	0.163 J	0.19 J	0.219 J	0.163 J	--	0.13	0.15	0.17	0.22	0.19	0.19
pH_Field	SU	6.84	7.03	6.94	6.84	6.75	6.87	6.9	6.85	6.85	6.86	6.94	6.99
Sulfate	mg/L	119	122	94.3	67.1	94.1	101	--	91	71	80	--	62
TDS	mg/L	264	238	206	180	223	271	--	236	198	187	--	199
<b>Appendix IV</b>													
Antimony	mg/L	0.000933 J	<0.0006	0.000834 J	0.00118 J	0.000899 J	0.00136 J	--	<0.0006	0.000683 J	--	0.000656 J	<0.0006
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Barium	mg/L	0.0231	0.02	0.0175	0.0182	0.0221	0.0187	--	0.0232	0.0178	--	0.0197	0.0204
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.21 U	0.697	0.421 U	0.265 U	--	-0.132 U	0.493	--	1.89	0.114 U
Fluoride	mg/L	0.16 J	0.163 J	0.19 J	0.219 J	0.163 J	--	0.13	0.15	0.17	0.22	0.19	0.19
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	0.502	0.544	0.47	0.282	0.217	0.108	--	0.132	0.126	--	0.0786	0.067
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025
Molybdenum	mg/L	0.107	0.101	0.0915	0.127	0.11	0.0741	--	0.0883	0.109	--	0.0903	0.0757
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-12											
		09/11/2018	11/05/2018	03/26/2019	09/10/2019	04/21/2020	08/18/2020	03/10/2021	08/25/2021	03/29/2022	10/17/2022	05/30/2023	10/25/2023
<b>Appendix III</b>													
Boron	mg/L	--	0.127	0.111	0.153	0.872	0.748	0.389	0.393	0.416	0.272	0.306	0.272
Calcium	mg/L	27.4	28.8	33.7	30.5	51	42.9	55.1	45.2	52	49.8	54.5	33.1
Chloride	mg/L	12	17	14.5	10.9	9.49	6.46	9.3	7.43	11.8	12.9	11.7	4.69
Fluoride	mg/L	--	0.2	0.196	0.26	0.198	0.223	0.161	0.188	0.107 J	0.197	0.18	0.165
pH_Field	SU	6.87	6.81	6.95	6.69	6.96	6.98	6.89	7.04	6.44	6.88	6.87	6.77
Sulfate	mg/L	63	74	92.3	89.3	121	89	155	118	108	96.2	106	74.3
TDS	mg/L	184	210	230	218	291	250	331	263	290	243	279	189
<b>Appendix IV</b>													
Antimony	mg/L	--	<0.0008	0.00121 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	0.000815 J
Arsenic	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000251	0.000234	0.000232	0.000335	0.00029	0.000274
Barium	mg/L	--	0.0255	0.0218	0.0233	0.0325	0.021	0.0373	0.0323	0.0355	0.0301	0.0309	0.0223
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000224 J	0.000346 J	0.000433 J	0.000332 J	<0.000203	<0.000203
Cobalt	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.00118	0.000938	0.000876	0.00077	0.000536	0.000578
Combined Radium 226 + 228	pCi/L	--	0.048 U	0.381	0.434 U	-0.0655 U	0.135 U	0.481 U	0.113 U	1.37	0.99 U	1.14	0.431 U
Fluoride	mg/L	--	0.2	0.196	0.26	0.198	0.223	0.161	0.188	0.107 J	0.197	0.18	0.165
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	--	0.0912	0.0532	0.0598	0.166	0.0892	0.125	0.117	0.13	0.122	0.116	0.0953
Mercury	mg/L	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	--	0.0906	0.11	0.134	0.0947	0.0938	0.0611	0.0547	0.0514	0.0568	0.058	0.0414
Selenium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	0.00281	<0.000508	0.00081 J	0.00122	0.00203
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-13											
		02/16/2016	04/12/2016	05/31/2016	08/16/2016	10/12/2016	11/01/2016	01/25/2017	03/15/2017	05/09/2017	06/28/2017	08/29/2017	02/27/2018
<b>Appendix III</b>													
Boron	mg/L	0.26	0.26	0.318	0.322	0.244	--	0.188	--	0.281	0.153	0.112	--
Calcium	mg/L	29.8	23.3	25.9	25.5	29.5	--	33.6	--	30.4	26	22.3	--
Chloride	mg/L	6.52	4.47	10.8	16.6	18.5	--	22	--	10	9.4	9.3	--
Fluoride	mg/L	0.14 J	0.119 J	0.132 J	0.177 J	0.149 J	--	--	0.16	0.18	0.18	0.19	--
pH_Field	SU	6.4	6.41	6.22	6.41	6.42	--	6.76	6.82	6.7	6.58	6.4	--
Sulfate	mg/L	113	86.7	83.1	59.3	99.3	--	113	--	74	71	72	--
TDS	mg/L	242	176	189	192	--	244	274	--	191	176	163	--
<b>Appendix IV</b>													
Antimony	mg/L	0.000972 J	<0.0006	0.000869 J	0.00128 J	0.00114 J	--	0.00384	--	0.00323	0.00406	--	--
Arsenic	mg/L	0.0141	0.0144	0.00984	0.0126	0.0117	--	0.00316 J	--	0.00393 J	0.00406 J	--	--
Barium	mg/L	0.113	0.0912	0.0963	0.0878	0.112	--	0.114	--	0.1	0.0874	--	--
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	--
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	--
Chromium	mg/L	<0.002	<0.002	<0.002	0.00381 J	<0.002	--	<0.002	--	<0.002	0.00219 J	--	--
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	--
Combined Radium 226 + 228	pCi/L	1 U	1 U	0.313 U	0.435 U	-0.0137 U	--	0.309 U	--	0.42	0.373	--	1.25
Fluoride	mg/L	0.14 J	0.119 J	0.132 J	0.177 J	0.149 J	--	--	0.16	0.18	0.18	0.19	--
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	--
Lithium	mg/L	0.51	0.508	0.454	0.371	0.282	--	0.0904	--	0.144	0.146	--	--
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	--
Molybdenum	mg/L	0.0769	0.0442	0.0481	0.0956	0.114	--	0.078	--	0.0484	0.0598	--	--
Selenium	mg/L	0.0227	0.0701	0.0129	0.0208	0.00431 J	--	0.00779 J	--	0.00905 J	0.0072 J	--	--
Thallium	mg/L	<0.0002	<0.0002	0.000212 J	0.000449 J	0.000532 J	--	0.000309 J	--	0.00021 J	0.000244 J	--	--

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-13											
		02/28/2018	06/06/2018	09/11/2018	11/05/2018	03/26/2019	09/11/2019	04/20/2020	08/18/2020	03/15/2021	08/25/2021	04/06/2022	05/17/2022
<b>Appendix III</b>													
Boron	mg/L	--	0.244	--	0.104	0.213	0.535	0.642	0.501	0.523	0.438	0.26	--
Calcium	mg/L	--	23.7	26.8	29.4	34.1	53.9	40.3	95.3	68.9	74.2	55.5	--
Chloride	mg/L	--	6.1	14	18	4.7	12.3	4.7	8.24	7.68	6.37	3.71	--
Fluoride	mg/L	0.14	0.13	--	0.15	0.0775 J	0.118	0.0844 J	0.108	0.0737 J	0.111	<0.06	--
pH_Field	SU	6.72	6.57	6.64	6.69	6.54	6.22	6.68	6.76	6	6.66	6.24	6.2
Sulfate	mg/L	--	48	62	81	92.4	128	76.5	203	204	181	157	--
TDS	mg/L	--	138	185	208	198	316	201	444	374	359	298	--
<b>Appendix IV</b>													
Antimony	mg/L	0.00199 J	0.00261 J	--	0.00275 J	0.00219 J	0.00261 J	0.00338	0.00388	0.0016	0.00263	0.002	--
Arsenic	mg/L	0.00278 J	0.00352 J	--	0.00497 J	0.00251 J	0.00664	0.00181 J	0.00176 J	0.00207	0.00302	0.00261	--
Barium	mg/L	0.0984	0.0951	--	0.113	0.109	0.275	0.104	0.199	0.0699	0.114	0.0701	--
Beryllium	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	--
Cadmium	mg/L	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	7.92e-005 J	--
Chromium	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000311 J	0.000261 J	0.000299 J	--
Cobalt	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000312	6.87e-005 J	0.00126	--
Combined Radium 226 + 228	pCi/L	--	0.258 U	--	0.441 U	0.471	0.557 U	0.256 U	0.568 U	0.537 U	0.3 U	0.338 U	--
Fluoride	mg/L	0.14	0.13	--	0.15	0.0775 J	0.118	0.0844 J	0.108	0.0737 J	0.111	<0.06	--
Lead	mg/L	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	--
Lithium	mg/L	0.0738	0.148	--	0.0914	0.123	0.246	0.201	0.42	0.308	0.5	0.584	--
Mercury	mg/L	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	--
Molybdenum	mg/L	0.0346	0.0253	--	0.044	0.0262	0.0226	0.0924	0.145	0.0146	0.0319	0.0201	--
Selenium	mg/L	0.00826 J	0.00496 J	--	<0.002	0.0239	<0.002	0.0125	0.00416 J	0.0175	0.00826	0.111	0.0452
Thallium	mg/L	<0.0002	0.000239 J	--	0.000623 J	0.000215 J	0.00214	0.000433 J	0.00114	0.000506	0.00124	0.00169	--

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-13			GC-AP-MW-14								
		10/17/2022	05/31/2023	10/25/2023	02/16/2016	04/12/2016	05/31/2016	08/17/2016	10/12/2016	11/01/2016	01/25/2017	03/14/2017	05/09/2017
<b>Appendix III</b>													
Boron	mg/L	0.499	0.263	0.465	0.739	0.733	0.603	0.509	0.569	--	0.671	--	0.622
Calcium	mg/L	158	65.1	24.3	44.4	43.2	43	35.9	31.1	--	42.7	--	48.1
Chloride	mg/L	12	4.19	11.4	16.4	15.9	13.6	12.8	16.3	--	16.4	--	19
Fluoride	mg/L	<0.06	0.102 J	0.149	0.13 J	0.137 J	0.149 J	0.147 J	0.115 J	--	--	0.11	0.14
pH_Field	SU	6.22	6.37	6.47	6.21	6.37	6.42	6.42	6.38	--	6.37	6.3	6.43
Sulfate	mg/L	467	162	64.8	108	114	114	85.4	53.5	--	75.4	--	84
TDS	mg/L	708	333	189	340	298	309	269	--	252	259	--	285
<b>Appendix IV</b>													
Antimony	mg/L	0.002	0.00192	0.00161	<0.0006	<0.0006	0.00062 J	<0.0006	<0.0006	--	0.00106 J	--	<0.0006
Arsenic	mg/L	0.00397	0.00639	0.0195	0.0202	0.0214	0.0156	0.0153	0.0254	--	0.0194	--	0.0361
Barium	mg/L	0.119	0.0536	0.0752	0.0447	0.043	0.0383	0.0332	0.0454	--	0.0567	--	0.069
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006
Cadmium	mg/L	0.000145 J	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002
Chromium	mg/L	0.000237 J	0.000232 J	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002
Cobalt	mg/L	0.00424	0.00348	0.0018	0.00732 J	0.00785 J	0.00712 J	0.00545 J	0.00497 J	--	0.00454 J	--	0.00488 J
Combined Radium 226 + 228	pCi/L	0.529 U	0.512 U	0.343 U	1 U	1 U	0.624	0.49 U	-0.0237 U	--	0.455 U	--	0.451
Fluoride	mg/L	<0.06	0.102 J	0.149	0.13 J	0.137 J	0.149 J	0.147 J	0.115 J	--	--	0.11	0.14
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--	<0.001
Lithium	mg/L	0.764	0.371	0.15	0.632	0.615	0.613	0.444	0.387	--	0.516	--	0.526
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025
Molybdenum	mg/L	0.0197	0.0119	0.0269	0.00839 J	0.00918 J	0.00877 J	0.0236	0.0289	--	0.00501 J	--	0.0108
Selenium	mg/L	0.0103	0.0195	0.00397	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--	<0.002
Thallium	mg/L	0.00238	0.000342	0.000451	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-14											
		06/28/2017	08/29/2017	02/27/2018	06/06/2018	09/12/2018	11/07/2018	03/27/2019	09/10/2019	04/21/2020	08/11/2020	03/09/2021	08/25/2021
<b>Appendix III</b>													
Boron	mg/L	0.695	1	--	1.01	--	0.908	1.33	1.49	1.55	1.44	1.81	1.33
Calcium	mg/L	55	83.6	--	167	109	105	162	125	113	118	115	134
Chloride	mg/L	17	17	--	14	14	15	14.9	13.5	14.8	12.7	10.4	11.5
Fluoride	mg/L	0.13	0.14	0.13	0.15	--	0.19	0.248	0.209	0.254	0.278	0.263	0.239
pH_Field	SU	6.4	6.32	6.28	6.25	6.42	6.42	6.41	6.11	6.31	6.02	6.48	6.21
Sulfate	mg/L	120	180	--	450	200	180	335	193	168	242	165	346
TDS	mg/L	348	528	--	932	180	528	834	658	628	688	618	774
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	0.022	--	0.0265	0.0372	--	0.0289	0.0264	0.0263	0.0178	0.0207	0.0292	0.0224
Barium	mg/L	0.0764	--	0.0908	0.064	--	0.0575	0.0768	0.0685	0.102	0.0806	0.125	0.11
Beryllium	mg/L	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000357 J	0.000234 J
Cobalt	mg/L	0.00805 J	--	0.016	0.024	--	0.0124	0.0303	0.0278	0.0339	0.0373	0.0302	0.0436
Combined Radium 226 + 228	pCi/L	0.63	--	1.59	0.943	--	0.888	1.1	0.852	0.653	1.64	1.28 U	1.01
Fluoride	mg/L	0.13	0.14	0.13	0.15	--	0.19	0.248	0.209	0.254	0.278	0.263	0.239
Lead	mg/L	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	0.626	--	0.562	1.06	--	0.604	1.11	0.765	0.672	0.712	0.791	0.985
Mercury	mg/L	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00752 J	--	0.0121	0.0101	--	0.0155	0.0167	0.0125	0.0141	0.0117	0.0205	0.0127
Selenium	mg/L	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508
Thallium	mg/L	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-14				GC-AP-MW-15							
		04/04/2022	10/18/2022	05/24/2023	11/01/2023	02/17/2016	04/12/2016	05/31/2016	08/16/2016	10/11/2016	11/01/2016	01/24/2017	03/14/2017
<b>Appendix III</b>													
Boron	mg/L	1.89	1.91	1.82	2.17	0.454	0.444	0.424	0.438	0.456	--	0.458	--
Calcium	mg/L	117	125	119	152	47.7	44.4	45.3	49.4	52.7	--	49.4	--
Chloride	mg/L	10	10.4	10	10.1	11.8	12.6	12.9	10.2	10.2	--	11.2	--
Fluoride	mg/L	0.245	0.211	0.258	0.256	0.09 J	0.107 J	0.145 J	0.135 J	0.096 J	--	--	0.09 J
pH_Field	SU	6.39	6.46	6.4	6.8	6.02	6.17	6.15	6.21	6.14	--	6.11	6.09
Sulfate	mg/L	199	185	178	135	187	188	183	196	216	--	183	--
TDS	mg/L	658	662	650	653	408	334	351	367	--	372	354	--
<b>Appendix IV</b>													
Antimony	mg/L	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	0.00111 J	--
Arsenic	mg/L	0.0241	0.0269	0.0277	0.0298	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--
Barium	mg/L	0.103	0.103	0.127	0.117	0.022	0.0242	0.0224	0.0243	0.0291	--	0.0223	--
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	--
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--
Chromium	mg/L	0.000248 J	<0.000203	0.000305 J	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--
Cobalt	mg/L	0.0423	0.0349	0.0346	0.0308	0.0169	0.0158	0.014	0.0153	0.0162	--	0.0132	--
Combined Radium 226 + 228	pCi/L	1.03	1.25	1.67	0.943 U	1 U	1 U	0.41 U	0.399 U	0.00389 U	--	0.35 U	--
Fluoride	mg/L	0.245	0.211	0.258	0.256	0.09 J	0.107 J	0.145 J	0.135 J	0.096 J	--	--	0.09 J
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	--
Lithium	mg/L	0.607	0.478	0.578	0.542	0.806	0.719	0.735	0.699	0.727	--	0.689	--
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	--
Molybdenum	mg/L	0.0166	0.0181	0.0152	0.0277	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	--
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000697 J	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	--

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-15											
		05/10/2017	06/27/2017	08/30/2017	02/28/2018	06/05/2018	09/11/2018	11/06/2018	03/26/2019	09/10/2019	04/20/2020	08/12/2020	03/10/2021
<b>Appendix III</b>													
Boron	mg/L	0.486	0.454	0.441	--	0.543	--	0.614	0.699	0.73	0.791	0.813	0.825
Calcium	mg/L	47.4	44.9	44.4	--	45.1	48.5	49.2	53.9	57.2	61	72.2	67.4
Chloride	mg/L	14	14	14	--	13	14	14	12.8	12.8	12	11.4	11.9
Fluoride	mg/L	0.11	0.1	0.13	0.09 J	0.13	--	0.12	0.119	0.122	0.14	0.147	0.115
pH_Field	SU	6.11	6.09	6.1	6.11	6.05	6.18	6.09	6.1	5.82	6.16	6.1	6.08
Sulfate	mg/L	160	150	160	--	160	140	160	158	150	142	160	136
TDS	mg/L	332	331	317	--	318	321	331	342	358	369	401	397
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507
Arsenic	mg/L	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000349
Barium	mg/L	0.0281	0.0223	--	0.0271	0.0269	--	0.0271	0.0285	0.0348	0.0338	0.0352	0.0365
Beryllium	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00012 J
Chromium	mg/L	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000301 J
Cobalt	mg/L	0.014	0.0163	--	0.0157	0.0148	--	0.0158	0.018	0.0201	0.0189	0.0184	0.0189
Combined Radium 226 + 228	pCi/L	0.0662 U	0.793	--	3.99	-0.365 U	--	0.391 U	0.535	0.3 U	0.693	0.983	0.335 U
Fluoride	mg/L	0.11	0.1	0.13	0.09 J	0.13	--	0.12	0.119	0.122	0.14	0.147	0.115
Lead	mg/L	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005
Lithium	mg/L	0.603	0.558	--	0.571	0.492	--	0.547	0.575	0.6	0.604	0.594	0.63
Mercury	mg/L	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005
Selenium	mg/L	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507
Thallium	mg/L	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	8.78e-005 J

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-15					GC-AP-MW-16						
		08/25/2021	03/29/2022	10/18/2022	05/23/2023	10/24/2023	02/17/2016	04/13/2016	06/01/2016	08/15/2016	10/12/2016	11/02/2016	01/24/2017
<b>Appendix III</b>													
Boron	mg/L	0.83	0.848	0.874	0.935	0.877	1.47	1.48	1.22	1.31	1.37	--	1.38
Calcium	mg/L	74.8	75.7	89.4	92.5	87.4	57	62.5	54.4	56.2	56.6	--	59.1
Chloride	mg/L	10.3	10.3	8.54	8.99	9.61	12.5	13.6	14.2	13.6	13.8	--	14.2
Fluoride	mg/L	0.168	0.117 J	0.139	0.144	0.144	0.2 J	0.173 J	0.253 J	0.224 J	0.187 J	--	--
pH_Field	SU	6.12	5.81	6.29	6.25	6.29	6.18	6.28	6.36	6.37	6.32	--	6.29
Sulfate	mg/L	153	165	152	131	128	87.4	92.7	111	98.3	99.3	--	85.4
TDS	mg/L	407	406	423	410	409	310	372	360	366	--	374	380
<b>Appendix IV</b>													
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	0.000935 J
Arsenic	mg/L	0.000464	0.000318	0.000379	0.000389	0.000448	0.0788	0.0759	0.292	0.105	0.0831	--	0.0472
Barium	mg/L	0.0385	0.0381	0.036	0.0433	0.0399	0.0368	0.044	0.0357	0.0377	0.0431	--	0.0418
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006
Cadmium	mg/L	0.0001 J	0.000459	0.000135 J	0.00019 J	0.000123 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002
Chromium	mg/L	0.000268 J	<0.000203	<0.000203	<0.000203	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Cobalt	mg/L	0.0181	0.0172	0.0189	0.0182	0.0192	0.016	0.0139	0.0117	0.0133	0.0147	--	0.0122
Combined Radium 226 + 228	pCi/L	0.314 U	0.273 U	0.69 U	0.723 U	0.295 U	1 U	1 U	0.515	0.843	0.397 U	--	0.269 U
Fluoride	mg/L	0.168	0.117 J	0.139	0.144	0.144	0.2 J	0.173 J	0.253 J	0.224 J	0.187 J	--	--
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001
Lithium	mg/L	0.622	0.534	0.556	0.556	0.542	0.626	0.594	0.556	0.557	0.589	--	0.522
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025
Molybdenum	mg/L	<6.8e-005	<0.000102	<0.000102	<0.005075	<0.005075	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002
Thallium	mg/L	<6.8e-005	0.000115 J	8.43e-005 J	8.8e-005 J	<6.8e-005	0.000687 J	<0.0002	0.000272 J	0.000278 J	0.000322 J	--	0.000265 J

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-16											
		03/14/2017	05/10/2017	06/27/2017	08/30/2017	02/28/2018	06/05/2018	09/12/2018	11/06/2018	03/26/2019	09/10/2019	04/20/2020	08/11/2020
<b>Appendix III</b>													
Boron	mg/L	--	1.41	1.43	1.36	--	1.36	--	1.47	1.38	1.69	1.83	1.93
Calcium	mg/L	--	62.5	63.6	65.7	--	66.8	76.3	77.4	90	86.3	90.8	101
Chloride	mg/L	--	18	17	16	--	15	17	15	9.27	12.7	12.1	12.1
Fluoride	mg/L	0.23	0.23	0.22	0.28	0.23	0.28	--	0.24	0.316	0.267	0.245	0.294
pH_Field	SU	6.27	6.3	6.28	6.34	6.33	6.29	6.36	6.37	6.34	6.35	6.43	6.7
Sulfate	mg/L	--	74	75	87	--	87	63	97	123	68	49.6	55
TDS	mg/L	--	381	404	420	--	408	415	447	481	453	461	482
<b>Appendix IV</b>													
Antimony	mg/L	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	--	0.0814	0.0693	--	0.0852	0.0648	--	0.0701	0.0952	0.0786	0.105	0.0698
Barium	mg/L	--	0.0449	0.042	--	0.0595	0.0471	--	0.0574	0.0626	0.0754	0.0921	0.0948
Beryllium	mg/L	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	--	0.0133	0.0141	--	0.014	0.0114	--	0.0141	0.0177	0.0162	0.0146	0.0148
Combined Radium 226 + 228	pCi/L	--	0.454	1.25	--	1.17	0.337 U	--	0.661	1.18	0.516 U	0.493 U	1.48
Fluoride	mg/L	0.23	0.23	0.22	0.28	0.23	0.28	--	0.24	0.316	0.267	0.245	0.294
Lead	mg/L	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	--	0.552	0.523	--	0.544	0.49	--	0.54	0.558	0.581	0.62	0.599
Mercury	mg/L	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	--	0.000327 J	0.000301 J	--	0.000321 J	0.000288 J	--	0.000354 J	0.00041 J	0.000396 J	0.00032 J	0.000329 J

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-16						GC-AP-MW-17					
		03/09/2021	08/17/2021	04/06/2022	10/18/2022	05/31/2023	10/25/2023	02/17/2016	04/13/2016	06/01/2016	08/15/2016	10/12/2016	11/02/2016
<b>Appendix III</b>													
Boron	mg/L	1.94	1.98	2.17	2.14	2.09	1.99	1.66	1.64	1.66	1.83	2.12	--
Calcium	mg/L	101	103	101	128	108	121	30.7	39.5	47.7	45.6	57.6	--
Chloride	mg/L	12	10.4	11.6	10.1	8.96	8.33	14.6	14.9	15.9	19.5	18.5	--
Fluoride	mg/L	0.286	0.286	0.266	0.27	0.284	0.276	0.53	0.437	0.376	0.362	0.377	--
pH_Field	SU	6.29	6.33	6.42	6.53	6.52	6.53	6.32	6.44	6.24	6.34	6.42	--
Sulfate	mg/L	43.9	46.6	45.3	42.4	42.8	35.7	72.3	123	144	50.1	72.6	--
TDS	mg/L	524	490	456	486	502	449	328	373	442	392	--	469
<b>Appendix IV</b>													
Antimony	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--
Arsenic	mg/L	0.113	0.0765	0.078	0.0653	0.0855	0.058	0.177	0.271	0.251	0.253	0.243	--
Barium	mg/L	0.102	0.101	0.103	0.103	0.119	0.126	0.0402	0.0637	0.0786	0.0634	0.0995	--
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	6.92e-005 J	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--
Chromium	mg/L	0.000444 J	0.000404 J	0.00034 J	0.000267 J	0.000327 J	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.002	--
Cobalt	mg/L	0.0162	0.0155	0.0147	0.0143	0.0136	0.0135	0.0101	0.0109	0.0134	0.0134	0.0204	--
Combined Radium 226 + 228	pCi/L	1.2 U	0.49 U	1 U	0.772 U	2	0.983 U	1 U	1.4698 U	0.972	1.43	0.246 U	--
Fluoride	mg/L	0.286	0.286	0.266	0.27	0.284	0.276	0.53	0.437	0.376	0.362	0.377	--
Lead	mg/L	0.000109 J	0.000108 J	8.65e-005 J	8.94e-005 J	0.000145 J	7.11e-005 J	<0.001	<0.001	<0.001	<0.001	<0.001	--
Lithium	mg/L	0.692	0.647	0.638	0.594	0.603	0.552	0.612	0.694	0.675	0.571	0.622	--
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--
Molybdenum	mg/L	0.000113 J	0.000145 J	0.000149 J	0.000194 J	<0.005075	<0.005075	0.066	0.0835	0.0835	0.0838	0.111	--
Selenium	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	--
Thallium	mg/L	0.000369	0.000356	0.000353	0.000337	0.000316	0.000339	0.00067 J	<0.0002	<0.0002	<0.0002	<0.0002	--

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-17											
		01/24/2017	03/14/2017	05/10/2017	06/27/2017	08/30/2017	02/28/2018	06/05/2018	09/12/2018	11/06/2018	03/26/2019	09/09/2019	04/21/2020
<b>Appendix III</b>													
Boron	mg/L	1.94	--	1.99	2.18	1.71	--	1.76	--	1.74	1.74	2.33	1.97
Calcium	mg/L	69.4	--	66.2	63.8	75.1	--	77.4	58.9	81.6	84.7	66.4	74.4
Chloride	mg/L	19	--	24	24	18	--	15	23	11	9.52	15.4	11.1
Fluoride	mg/L	--	0.41	0.36	0.38	0.38	0.58	0.41	--	0.45	0.573	0.477	0.565
pH_Field	SU	6.53	--	6.33	6.38	6.31	6.57	6.21	6.43	6.47	6.52	5.84	6.61
Sulfate	mg/L	63.4	--	82	44	230	--	230	33	220	161	57.3	78
TDS	mg/L	464	--	492	516	646	--	644	476	634	516	500	490
<b>Appendix IV</b>													
Antimony	mg/L	0.000997 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	0.000897 J	<0.0008	<0.0008
Arsenic	mg/L	0.363	--	0.499	0.489	--	0.532	0.382	--	0.299	0.32	0.356	0.689
Barium	mg/L	0.117	--	0.158	0.139	--	0.199	0.149	--	0.202	0.242	0.319	0.306
Beryllium	mg/L	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.0157	--	0.0179	0.0166	--	0.0251	0.0456	--	0.0321	0.0192	0.0121	0.0158
Combined Radium 226 + 228	pCi/L	0.918	--	1.27	1.51	--	1.05	1.07	--	1.05	1.57	1.29	0.859
Fluoride	mg/L	--	0.41	0.36	0.38	0.38	0.58	0.41	--	0.45	0.573	0.477	0.565
Lead	mg/L	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.752	--	0.622	0.597	--	0.73	0.531	--	0.583	0.595	0.571	0.629
Mercury	mg/L	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.111	--	0.0566	0.0702	--	0.0957	0.0363	--	0.0418	0.062	0.0681	0.0694
Selenium	mg/L	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-17							GC-AP-MW-18				
		08/11/2020	03/09/2021	08/17/2021	04/04/2022	10/18/2022	05/17/2023	10/23/2023	02/17/2016	04/12/2016	06/01/2016	08/15/2016	10/12/2016
<b>Appendix III</b>													
Boron	mg/L	2.03	2.45	2.18	2.32	2.28	2.48	2.21	1.94	2.03	1.74	1.66	1.77
Calcium	mg/L	73	118	78.3	104	150	147	164	89.6	96.2	90.2	84.4	82.9
Chloride	mg/L	15.4	14.3	14.3	8.06	10.7	9.98	10	22.3	22.1	22	22.4	22.1
Fluoride	mg/L	0.515	0.628	0.494	0.564	0.544	0.588	0.514	0.15 J	0.168 J	0.178 J	0.149 J	0.12 J
pH_Field	SU	6.71	6.52	6.57	6.71	6.77	6.71	6.63	6.23	6.3	6.24	6.25	6.26
Sulfate	mg/L	46.7	95.8	32.8	72.3	64.9	109	97.3	60.2	68.2	61.4	56	36.6
TDS	mg/L	522	684	506	550	598	648	662	464	491	468	454	--
<b>Appendix IV</b>													
Antimony	mg/L	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.581	0.86	0.937	0.861	0.897	1.06	0.895	0.133	0.134	0.11	0.116	0.109
Barium	mg/L	0.29	0.352	0.254	0.27	0.253	0.281	0.263	0.12	0.131	0.114	0.113	0.126
Beryllium	mg/L	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.002	0.000216 J	0.000216 J	0.000224 J	0.000211 J	0.0003 J	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.0122	0.0151	0.0109	0.0115	0.00934	0.00834	0.00716	0.0227	0.0209	0.02	0.0225	0.0206
Combined Radium 226 + 228	pCi/L	2.14	2.27	1.97	2.17	1.22	2.29	1.59	1 U	1 U	1.55	1.85	0.481
Fluoride	mg/L	0.515	0.628	0.494	0.564	0.544	0.588	0.514	0.15 J	0.168 J	0.178 J	0.149 J	0.12 J
Lead	mg/L	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.552	0.864	0.585	0.647	0.656	0.708	0.655	0.67	0.655	0.666	0.558	0.56
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.0506	0.067	0.0468	0.054	0.0513	0.0496	0.0426	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000404 J	<0.0002	<0.0002	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-18											
		11/02/2016	01/24/2017	03/14/2017	05/10/2017	06/27/2017	08/30/2017	02/28/2018	06/05/2018	09/12/2018	11/06/2018	03/26/2019	09/09/2019
<b>Appendix III</b>													
Boron	mg/L	--	1.49	--	1.65	1.66	1.53	--	1.36	--	1.48	1.63	1.73
Calcium	mg/L	--	76.4	--	77.4	75.4	78	--	66.3	67.8	72.7	91.5	83.2
Chloride	mg/L	--	23.2	--	26	25	25	--	25	23	26	25.4	25.6
Fluoride	mg/L	--	--	0.17	0.17	0.18	0.21	0.17	0.17	--	0.17	0.192	0.157
pH_Field	SU	--	6.3	--	6.34	6.32	6.38	6.31	6.16	6.29	6.31	6.3	6.28
Sulfate	mg/L	--	12.3	--	10	9.7	7.8	--	13	28	11	21.3	17.8
TDS	mg/L	422	408	--	358	382	392	--	352	339	368	406	406
<b>Appendix IV</b>													
Antimony	mg/L	--	0.000984 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	--	0.0825	--	0.0776	0.0672	--	0.063	0.0661	--	0.0509	0.0477	0.0498
Barium	mg/L	--	0.126	--	0.138	0.12	--	0.143	0.128	--	0.109	0.117	0.101
Beryllium	mg/L	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	--	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003
Chromium	mg/L	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002
Cobalt	mg/L	--	0.015	--	0.0141	0.0144	--	0.0136	0.0138	--	0.0158	0.0161	0.0174
Combined Radium 226 + 228	pCi/L	--	0.889	--	1.01	1.17	--	0.702	0.999	--	0.913	1.35	1.08
Fluoride	mg/L	--	--	0.17	0.17	0.18	0.21	0.17	0.17	--	0.17	0.192	0.157
Lead	mg/L	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001
Lithium	mg/L	--	0.374	--	0.443	0.451	--	0.343	0.353	--	0.369	0.378	0.408
Mercury	mg/L	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003
Molybdenum	mg/L	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002
Selenium	mg/L	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002
Thallium	mg/L	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-18								GC-AP-MW-21			
		04/21/2020	08/12/2020	03/09/2021	08/17/2021	04/06/2022	10/17/2022	05/22/2023	10/23/2023	02/16/2016	04/13/2016	06/01/2016	08/16/2016
<b>Appendix III</b>													
Boron	mg/L	1.51	1.53	1.52	1.45	1.6	1.46	1.49	1.07	0.286	0.26	0.283	0.292
Calcium	mg/L	81.8	85.9	82	77.4	96.1	99.9	82.1	77.5	40.4	32.2	29.3	25.4
Chloride	mg/L	26.3	24.5	25.2	25.1	24	26	24.4	23.7	9.95	7.33	6.97	12
Fluoride	mg/L	0.171	0.198	0.205	0.212	0.162	0.176	0.186	0.164	0.18 J	0.191 J	0.201 J	0.218 J
pH_Field	SU	6.31	6.62	6.39	6.38	6.29	6.49	6.1	6.4	7.15	7.1	6.76	6.99
Sulfate	mg/L	19.2	13.8	11.6	12.2	15.8	23.3	19.1	17.7	125	119	99.2	71.9
TDS	mg/L	429	390	412	397	413	382	362	376	264	226	231	181
<b>Appendix IV</b>													
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	0.0478	0.0485	0.0505	0.0509	0.049	0.0475	0.0491	0.0517	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0926	0.0815	0.0849	0.0763	0.0769	0.07	0.0709	0.0692	0.0379	0.0291	0.0254	0.0385
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.002	<0.002	0.000346 J	0.00023 J	0.000313 J	0.000294 J	0.000293 J	<0.000203	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.0173	0.0152	0.017	0.0175	0.0183	0.0201	0.019	0.022	<0.002	<0.002	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	0.888	1.17	1.11 U	2.04	1.18 U	0.84 U	1.48 U	0.913 U	1 U	1 U	0.126 U	0.477
Fluoride	mg/L	0.171	0.198	0.205	0.212	0.162	0.176	0.186	0.164	0.18 J	0.191 J	0.201 J	0.218 J
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.386	0.326	0.364	0.335	0.312	0.321	0.286	0.276	0.513	0.532	0.513	0.301
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	0.000362	0.000397	0.000321	0.000305	<0.005075	<0.005075	0.0433	0.0567	0.0565	0.0791
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-21											
		10/12/2016	01/25/2017	03/15/2017	05/09/2017	06/28/2017	08/29/2017	02/28/2018	06/06/2018	09/10/2018	11/05/2018	03/26/2019	09/10/2019
<b>Appendix III</b>													
Boron	mg/L	0.254	0.133	--	0.304	0.243	0.249	--	0.245	--	0.151	0.0834 J	0.16
Calcium	mg/L	30.7	36.8	--	36.1	26.9	29.4	--	30.2	28.8	29.7	32.4	28.4
Chloride	mg/L	15.4	24.7	--	17	11	12	--	9.7	12	16	17.2	11
Fluoride	mg/L	0.171 J	--	0.16	0.17	0.18	0.23	0.2	0.19	--	0.22	0.219	0.194
pH_Field	SU	6.89	6.84	--	6.83	6.98	6.8	6.87	6.94	6.74	6.66	6.84	6.58
Sulfate	mg/L	93.9	103	--	100	69	77	--	81	64	68	92	63.1
TDS	mg/L	225	277	--	255	175	218	--	207	197	200	218	198
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	0.00107 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	0.000964 J	<0.0008
Arsenic	mg/L	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001
Barium	mg/L	0.0486	0.0371	--	0.0454	0.0352	--	0.0376	0.0355	--	0.0509	0.047	0.0568
Beryllium	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	0.137 U	0.55	--	0.182 U	0.228 U	--	0.293 U	-0.056 U	--	0.637	0.405	0.0889 U
Fluoride	mg/L	0.171 J	--	0.16	0.17	0.18	0.23	0.2	0.19	--	0.22	0.219	0.194
Lead	mg/L	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001
Lithium	mg/L	0.22	0.107	--	0.113	0.0962	--	0.0594	0.0469 J	--	0.0902	0.0531	0.0862
Mercury	mg/L	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003
Molybdenum	mg/L	0.0767	0.0398	--	0.0467	0.0833	--	0.0643	0.0579	--	0.0548	0.071	0.0609
Selenium	mg/L	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-21								GC-AP-MW-25			
		04/21/2020	08/18/2020	03/10/2021	08/25/2021	03/30/2022	10/17/2022	05/30/2023	10/25/2023	02/17/2016	04/12/2016	06/01/2016	08/17/2016
<b>Appendix III</b>													
Boron	mg/L	0.586	0.211	0.528	0.288	0.696	0.59	0.402	0.315	0.0922 J	0.0935 J	0.0826 J	0.092 J
Calcium	mg/L	43.1	25.5	44.9	31	51	57	36.1	30.9	10.2	10	9.87	8.88
Chloride	mg/L	10.1	5.54	20.4	10.4	12.1	13	9.44	6.93	22.9	22.2	22.3	22.1
Fluoride	mg/L	0.173	0.18	0.113	0.117	<0.06	0.0988 J	0.135	0.0861	0.02 J	0.021 J	0.051 J	0.037 J
pH_Field	SU	6.81	6.31	6.26	6.51	6.09	6.21	6.03	6.01	5.36	5.31	5.35	5.38
Sulfate	mg/L	99	63.4	51.7	76.1	115	103	89.4	72.4	28.7	32.5	31.9	30.5
TDS	mg/L	265	179	296	207	320	311	237	205	144	140	139	142
<b>Appendix IV</b>													
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	<0.001	<0.001	0.000216	0.000143 J	0.000167 J	0.000217	<0.000112	0.000132 J	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.0763	0.0517	0.111	0.0865	0.112	0.0774	0.0604	0.0507	0.0895	0.0966	0.0872	0.0875
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	7.02e-005 J	<6.8e-005	6.83e-005 J	0.000102 J	0.000138 J	9.8e-005 J	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.002	<0.002	0.000333 J	0.000274 J	0.000217 J	0.00026 J	0.000232 J	<0.000203	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	<0.002	<0.002	0.00204	0.00147	0.00284	0.00501	0.00318	0.00285	0.00683 J	0.00656 J	0.00637 J	0.00659 J
Combined Radium 226 + 228	pCi/L	0.271 U	-0.0105 U	0.418 U	0.305 U	1.04	0.772 U	0.732 U	0.323 U	1 U	1 U	0.1 U	0.372 U
Fluoride	mg/L	0.173	0.18	0.113	0.117	<0.06	0.0988 J	0.135	0.0861	0.02 J	0.021 J	0.051 J	0.037 J
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.0782	0.0718	0.146	0.0872	0.082	0.0902	0.0683	0.0599	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	0.0562	0.0505	0.0123	0.00789	0.00682	0.00666	<0.005075	<0.005075	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	0.000106 J	<6.8e-005	0.000107 J	0.00012 J	<6.8e-005	<6.8e-005	0.000232 J	<0.0002	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-25											
		10/11/2016	11/02/2016	01/24/2017	03/14/2017	05/09/2017	06/28/2017	08/29/2017	02/28/2018	06/06/2018	09/12/2018	11/06/2018	03/27/2019
<b>Appendix III</b>													
Boron	mg/L	0.0976 J	--	0.0877 J	--	0.0953 J	0.0835 J	0.0914 J	--	0.102	--	0.0995 J	0.113
Calcium	mg/L	9.22	--	8.72	--	8.56	7.16	8.32	--	9.05	8.98	9.21	9.77
Chloride	mg/L	21.8	--	21.8	--	23	22	22	--	20	20	21	18.4
Fluoride	mg/L	<0.01	--	--	<0.032	<0.032	0.04 J	<0.032	<0.032	<0.032	--	<0.032	<0.05
pH_Field	SU	5.31	--	5.29	--	5.29	5.27	5.27	5.28	5.21	5.23	5.28	5.27
Sulfate	mg/L	32.3	--	33.5	--	33	35	37	--	47	41	48	62.4
TDS	mg/L	--	128	124	--	136	145	139	--	153	156	153	178
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	--	0.00111 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008
Arsenic	mg/L	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Barium	mg/L	0.1	--	0.0856	--	0.093	0.0829	--	0.0958	0.0892	--	0.0807	0.0901
Beryllium	mg/L	0.000715 J	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003
Chromium	mg/L	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Cobalt	mg/L	0.00687 J	--	0.00522 J	--	0.00646 J	0.00721 J	--	0.00771 J	0.00712 J	--	0.00791	0.0114
Combined Radium 226 + 228	pCi/L	0.277 U	--	0.585	--	0.489	0.333	--	1.08	0.016 U	--	0.0751 U	0.309 U
Fluoride	mg/L	<0.01	--	--	<0.032	<0.032	0.04 J	<0.032	<0.032	<0.032	--	<0.032	<0.05
Lead	mg/L	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001
Lithium	mg/L	<0.01	--	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01
Mercury	mg/L	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003
Molybdenum	mg/L	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Selenium	mg/L	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002
Thallium	mg/L	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-25									GC-AP-MW-31		
		09/10/2019	04/22/2020	08/11/2020	03/10/2021	08/24/2021	03/29/2022	10/18/2022	05/30/2023	11/01/2023	08/16/2016	09/19/2016	10/11/2016
<b>Appendix III</b>													
Boron	mg/L	0.105	0.104	0.11	0.146	0.115	0.122	0.124	0.115	0.115	<0.02	<0.02	<0.02
Calcium	mg/L	9.28	11.3	10.7	29.3	25.9	31.9	38.2	13.9	31.1	39.5	34.5	32.4
Chloride	mg/L	17.7	17.1	16.7	25.3	25.3	29.6	32.3	19.9	26.9	5.32	5.29	5.26
Fluoride	mg/L	<0.05	<0.06	<0.06	0.104	0.0914 J	0.0724 J	0.0955 J	0.0807 J	0.0861	0.087 J	0.045 J	0.034 J
pH_Field	SU	5.15	5.26	4.81	5.71	5.25	5.26	5.88	5.45	6.01	7.13	6.94	6.82
Sulfate	mg/L	66	76.1	79.5	70.3	66.6	68.6	70.6	88.1	72.6	1.78	2.06	2.33
TDS	mg/L	182	195	193	246	224	247	256	225	251	142	121	--
<b>Appendix IV</b>													
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006
Arsenic	mg/L	<0.001	<0.001	<0.001	0.00033	0.000279	0.000262	0.000434	0.000217	0.000183 J	0.00185 J	0.00121 J	0.00111 J
Barium	mg/L	0.101	0.11	0.111	0.0797	0.0988	0.0717	0.0704	0.0824	0.0806	0.0226	0.0202	0.0219
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<6.8e-005	9.04e-005 J	6.91e-005 J	8.34e-005 J	0.0001 J	8.87e-005 J	<0.0002	<0.0002	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.002	0.0003 J	0.000284 J	0.000415 J	<0.000203	0.000249 J	0.000214 J	<0.002	<0.002	<0.002
Cobalt	mg/L	0.0127	0.0133	0.0126	0.0115	0.0117	0.0101	0.00995	0.016	0.0116	<0.002	0.00242 J	0.0024 J
Combined Radium 226 + 228	pCi/L	0.578	0.218 U	0.511 U	1.03 U	0.693 U	0.37 U	0.617 U	1.6	0.617 U	1.34	0.561 U	0.118 U
Fluoride	mg/L	<0.05	<0.06	<0.06	0.104	0.0914 J	0.0724 J	0.0955 J	0.0807 J	0.0861	0.087 J	0.045 J	0.034 J
Lead	mg/L	<0.001	<0.001	<0.001	8.84e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	8.43e-005 J	<6.8e-005	<0.000102	<0.000102	<0.005075	<0.005075	0.00201 J	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-31											
		11/01/2016	11/14/2016	11/28/2016	01/03/2017	01/24/2017	03/14/2017	05/10/2017	06/27/2017	08/30/2017	02/27/2018	06/05/2018	09/11/2018
<b>Appendix III</b>													
Boron	mg/L	--	<0.02	--	<0.02	0.0282 J	--	<0.02	<0.02	<0.02	--	<0.02	--
Calcium	mg/L	--	26.5	--	22.6	19.5	--	15.7	13.8	11.1	--	9.12	7.5
Chloride	mg/L	--	5.28	--	5.18	5.41	--	5.8	5.4	6	--	5.2	5.5
Fluoride	mg/L	--	<0.01	--	<0.01	--	<0.032	0.05 J	0.05 J	<0.032	<0.032	<0.032	--
pH_Field	SU	--	6.57	--	6.56	6.41	--	6.41	6.14	6.08	5.99	5.93	5.86
Sulfate	mg/L	--	2.31	--	2.81	3.34	--	2.9 J	3.4 J	3.7 J	--	3.7 J	2.2 J
TDS	mg/L	103	--	84	89.3	83.3	--	31.3	67.3	64	--	50	53.3
<b>Appendix IV</b>													
Antimony	mg/L	--	<0.0006	--	<0.0006	0.000928 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--
Arsenic	mg/L	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--
Barium	mg/L	--	0.0215	--	0.019	0.0167	--	0.0246	0.0238	--	0.0231	0.0228	--
Beryllium	mg/L	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	--
Cadmium	mg/L	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	--
Chromium	mg/L	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--
Cobalt	mg/L	--	<0.002	--	0.00217 J	0.00239 J	--	<0.002	<0.002	--	<0.002	<0.002	--
Combined Radium 226 + 228	pCi/L	--	0.984	--	0.473 U	-0.422 U	--	0.706	0.412	--	0.314 U	0.218 U	--
Fluoride	mg/L	--	<0.01	--	<0.01	--	<0.032	0.05 J	0.05 J	<0.032	<0.032	<0.032	--
Lead	mg/L	--	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	--
Lithium	mg/L	--	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	--
Mercury	mg/L	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	--
Molybdenum	mg/L	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--
Selenium	mg/L	--	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	--
Thallium	mg/L	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	--

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-31											GC-AP-MW-32
		11/06/2018	03/27/2019	09/11/2019	04/22/2020	08/11/2020	03/15/2021	08/23/2021	03/28/2022	10/05/2022	05/23/2023	10/30/2023	08/16/2016
<b>Appendix III</b>													
Boron	mg/L	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.02
Calcium	mg/L	7.39	7.65	6.96	5.92	7.46	5.9	7.11	5.95	6.69	6.75	7.22	9.33
Chloride	mg/L	5.1	5.26	5.31	5.37	5.45	5.47	6.37	6	7.06	7.44	7.37	4.24
Fluoride	mg/L	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06	0.0671 J	<0.06	0.0258 J	0.054 J
pH_Field	SU	5.89	5.95	5.85	5.75	5.63	5.61	5.67	5.05	5.49	5.67	5.72	6
Sulfate	mg/L	3.1 J	3.55	3.83	3.78	4.33	3.74	4	3.34	4.08	3	3.75	2.06
TDS	mg/L	66	48.7	52.7	49.3	52	49.3	49.3	43.3	43.3	47.3	52.7	49.3
<b>Appendix IV</b>													
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0006
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	0.000111 J	<6.8e-005	<8.1e-005	<8.1e-005	<0.000112	<0.000112	<0.001
Barium	mg/L	0.0211	0.025	0.0267	0.0285	0.0264	0.0316	0.0317	0.0325	0.0297	0.0361	0.0372	0.0134
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	0.000468 J	0.000418 J	0.000392 J	0.000268 J	0.000293 J	0.000329 J	<0.002
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	0.000624	0.000603	0.000608	0.00071	0.000627	0.000715	<0.002
Combined Radium 226 + 228	pCi/L	0.566 U	0.29 U	0.28 U	0.0983 U	0.767	0.817 U	0.345 U	0.413 U	0.837 U	0.475 U	0.654 U	0.951
Fluoride	mg/L	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06	0.0671 J	<0.06	0.0258 J	0.054 J
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	0.000146 J	<6.8e-005	<6.8e-005	<6.8e-005	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.01
Mercury	mg/L	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	7.41e-005 J	<6.8e-005	<0.000102	<0.000102	<0.005075	<0.005075	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-32											
		09/19/2016	10/11/2016	11/01/2016	11/14/2016	11/28/2016	01/03/2017	01/24/2017	03/14/2017	05/10/2017	05/31/2017	06/27/2017	08/30/2017
<b>Appendix III</b>													
Boron	mg/L	<0.02	<0.02	--	<0.02	--	<0.02	<0.02	--	<0.02	--	<0.02	<0.02
Calcium	mg/L	9.26	9.31	--	9.17	--	9.66	9.67	--	9.81	--	9.88	10.3
Chloride	mg/L	4.13	4.07	--	4.08	--	4.06	4.4	--	4.4	--	4	4.8
Fluoride	mg/L	0.023 J	0.011 J	--	<0.01	--	<0.01	--	<0.032	0.05 J	--	0.04 J	0.04 J
pH_Field	SU	6	6.02	--	5.98	--	6.03	5.9	--	6	--	6.05	6.13
Sulfate	mg/L	1.44	1.38	--	1.15	--	1.57	2.06	--	2.1 J	--	2.7 J	2.6 J
TDS	mg/L	44.7	--	48	--	40.7	49.3	48.7	--	46.7	--	55.3	57.3
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	<0.0006	--	<0.0006	--	<0.0006	0.00091 J	--	<0.0006	--	<0.0006	--
Arsenic	mg/L	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	--	<0.001	--
Barium	mg/L	0.0125	0.0128	--	0.0129	--	0.0116	0.0118	--	0.0142	--	0.0127	--
Beryllium	mg/L	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006	--	<0.0006	--
Cadmium	mg/L	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	--	<0.0002	--
Chromium	mg/L	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	--	<0.002	--
Cobalt	mg/L	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	--	<0.002	--
Combined Radium 226 + 228	pCi/L	0.242 U	0.34 U	--	0.447 U	--	0.729	0.184 U	--	--	0.454	-0.111 U	--
Fluoride	mg/L	0.023 J	0.011 J	--	<0.01	--	<0.01	--	<0.032	0.05 J	--	0.04 J	0.04 J
Lead	mg/L	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001	--	<0.001	--
Lithium	mg/L	<0.01	<0.01	--	<0.01	--	<0.01	<0.01	--	<0.01	--	<0.01	--
Mercury	mg/L	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025	--	<0.00025	--
Molybdenum	mg/L	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	--	<0.002	--
Selenium	mg/L	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002	--	<0.002	--
Thallium	mg/L	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002	--	<0.0002	--

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-32											
		02/27/2018	06/05/2018	09/11/2018	11/05/2018	03/27/2019	09/11/2019	04/22/2020	08/12/2020	03/15/2021	08/23/2021	03/28/2022	10/05/2022
<b>Appendix III</b>													
Boron	mg/L	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	--	11.4	10.5	10.5	11.7	9.95	9.87	9.48	2.02	2.16	9.61	9.18
Chloride	mg/L	--	3.8	4.1	3.9	3.86	4.21	4	4.17	5.57	5.61	3.98	4.04
Fluoride	mg/L	0.04 J	0.04 J	--	<0.032	<0.05	0.0518 J	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
pH_Field	SU	6.1	6.05	6.07	6.01	6.15	5.87	5.92	5.84	4.57	4.17	5.01	5.84
Sulfate	mg/L	--	3.1 J	1.6 J	2.4 J	3.22	2.66	2.51	2.54	8.5	9.18	2.55	2.71
TDS	mg/L	--	52.7	60	53.3	56	55.3	52.7	49.3	46	64.7	51.3	43.3
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000142 J	0.000192 J	<8.1e-005	<8.1e-005
Barium	mg/L	0.0135	0.0126	--	0.0123	0.0138	0.0147	0.0133	0.0127	0.0692	0.0764	0.0132	0.0133
Beryllium	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000431 J	0.000384 J	0.00042 J	0.000301 J
Cobalt	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000908	0.00105	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	0.146 U	-0.128 U	--	0.0946 U	0.5	-0.464 U	0.474 U	3.18	1.11 U	1.09	0.682 U	0.467 U
Fluoride	mg/L	0.04 J	0.04 J	--	<0.032	<0.05	0.0518 J	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Lead	mg/L	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.000121 J	0.000173 J	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.000102
Selenium	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	0.000592 J	<0.000508	<0.000508
Thallium	mg/L	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-32		GC-AP-MW-33									
		05/22/2023	10/30/2023	08/16/2016	09/19/2016	10/11/2016	11/01/2016	11/14/2016	11/28/2016	01/03/2017	01/25/2017	03/14/2017	05/10/2017
<b>Appendix III</b>													
Boron	mg/L	<0.03	<0.03	0.0268 J	0.0225 J	0.0304 J	--	0.0355 J	--	0.0304 J	<0.02	--	<0.02
Calcium	mg/L	10.2	10.5	5.54	3.01	2.74	--	2.47	--	2.94	2.91	--	2.27
Chloride	mg/L	3.95	3.92	4.88	4.45	4.36	--	4.42	--	5.18	5.66	--	8
Fluoride	mg/L	<0.06	0.0401	0.061 J	0.018 J	<0.01	--	<0.01	--	<0.01	--	<0.032	0.06 J
pH_Field	SU	5.98	5.92	6.34	6.11	5.99	--	5.83	--	5.39	5.09	--	4.63
Sulfate	mg/L	2.5	3.36	9.33	11.2	12.6	--	12.4	--	14.3	15.2	--	12
TDS	mg/L	51.3	58.7	101	80	--	78	--	68.7	60.7	54.7	--	60.7
<b>Appendix IV</b>													
Antimony	mg/L	<0.00071	<0.00071	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	0.00112 J	--	<0.0006
Arsenic	mg/L	<0.000112	<0.000112	0.00122 J	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001
Barium	mg/L	0.0152	0.0134	0.0304	0.0215	0.0236	--	0.0206	--	0.0409	0.0455	--	0.0798
Beryllium	mg/L	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	--	<0.0006	--	<0.0006	<0.0006	--	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002
Chromium	mg/L	0.000355 J	0.000409 J	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002
Cobalt	mg/L	<6.8e-005	<6.8e-005	0.00923 J	0.00539 J	0.00506 J	--	0.00399 J	--	0.0037 J	0.0077 J	--	0.00291 J
Combined Radium 226 + 228	pCi/L	0.602 U	0.553 U	0.534 U	0.238 U	0.158 U	--	0.641	--	0.834	0.605	--	0.563
Fluoride	mg/L	<0.06	0.0401	0.061 J	0.018 J	<0.01	--	<0.01	--	<0.01	--	<0.032	0.06 J
Lead	mg/L	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	--	<0.001	--	<0.001	<0.001	--	<0.001
Lithium	mg/L	<0.007105	<0.007105	<0.01	<0.01	<0.01	--	<0.01	--	<0.01	<0.01	--	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	--	<0.00025	--	<0.00025	<0.00025	--	<0.00025
Molybdenum	mg/L	<0.005075	<0.005075	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002
Selenium	mg/L	<0.000508	<0.000508	<0.002	<0.002	<0.002	--	<0.002	--	<0.002	<0.002	--	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	--	<0.0002	--	<0.0002	<0.0002	--	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-33											
		06/27/2017	08/30/2017	02/27/2018	06/05/2018	09/11/2018	11/06/2018	03/27/2019	09/11/2019	04/22/2020	08/12/2020	03/15/2021	08/23/2021
<b>Appendix III</b>													
Boron	mg/L	<0.02	<0.02	--	<0.02	--	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	2.2	2.26	--	2.97	2.6	2.42	2.75	2.17	3.15	1.78	9.77	9.53
Chloride	mg/L	7.2	6.9	--	4.2	4.2	4.5	4.33	4.16	5.66	4.46	4.18	4.33
Fluoride	mg/L	0.07 J	0.08 J	0.07 J	0.1	--	0.08 J	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06
pH_Field	SU	4.76	4.85	4.69	4.62	4.79	4.62	4.68	4.57	4.71	4.65	5.83	6.04
Sulfate	mg/L	13	15	--	17	16	15	15.1	14.5	9.64	13.6	2.76	2.44
TDS	mg/L	58	66.7	--	71.3	66.7	61.3	65.3	69.3	62.7	62	48	48.7
<b>Appendix IV</b>													
Antimony	mg/L	<0.0006	--	<0.0006	<0.0006	--	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Barium	mg/L	0.0679	--	0.0856	0.0875	--	0.0726	0.0912	0.0824	0.102	0.0601	0.0144	0.0146
Beryllium	mg/L	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<0.0002	--	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.000679 J	0.000497 J
Cobalt	mg/L	0.00247 J	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005
Combined Radium 226 + 228	pCi/L	0.937	--	0.475	1.65	--	1.55	1.83	1.02	1.08	3.41	0.771 U	1.01 U
Fluoride	mg/L	0.07 J	0.08 J	0.07 J	0.1	--	0.08 J	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06
Lead	mg/L	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105
Mercury	mg/L	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005
Selenium	mg/L	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508
Thallium	mg/L	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-33				GC-AP-PZ-4							
		03/28/2022	10/05/2022	05/22/2023	10/30/2023	09/12/2018	09/10/2019	04/20/2020	08/17/2020	03/10/2021	08/17/2021	04/05/2022	10/05/2022
<b>Appendix III</b>													
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	--	0.293	0.308	0.344	0.338	0.296	0.351	0.272
Calcium	mg/L	2.21	2.01	2.52	2.11	172	160	147	153	157	149	209	198
Chloride	mg/L	5.47	5.32	4.53	3.92	12	10.9	9.87	9.78	8.48	8.13	7.86	6.54
Fluoride	mg/L	<0.06	<0.06	<0.06	0.064	--	0.0831 J	0.132	0.0959 J	0.118	0.117	0.158	0.192
pH_Field	SU	4.29	4.55	4.58	4.63	6.13	5.79	5.99	5.94	6.04	5.64	5.95	5.42
Sulfate	mg/L	11.8	12.2	15.5	17.6	400	499	482	493	510	569	812	782
TDS	mg/L	57.3	62.7	66	58.7	714	854	824	826	876	900	1240	1150
<b>Appendix IV</b>													
Antimony	mg/L	<0.000508	<0.000508	<0.00071	<0.00071	--	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.000147 J	8.13e-005 J	0.000242	0.000169 J	--	0.00176 J	0.0029 J	0.00191 J	0.00597	0.0021	0.00404	0.00368
Barium	mg/L	0.0773	0.0665	0.102	0.0764	--	0.0787	0.0801	0.0718	0.0759	0.0781	0.0665	0.0698
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	--	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	--	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	7.92e-005 J	0.000168 J
Chromium	mg/L	0.000436 J	0.000311 J	0.000358 J	0.000385 J	--	<0.002	<0.002	<0.002	0.000247 J	0.00033 J	0.000468 J	0.000226 J
Cobalt	mg/L	0.000992	0.000909	0.00118	0.00108	--	0.146	0.157	0.148	0.167	0.211	0.39	0.528
Combined Radium 226 + 228	pCi/L	1.36	1.02	2.36	1.24	--	1.89	1.59	1.16	1.36 U	1.76	1.73	1.73
Fluoride	mg/L	<0.06	<0.06	<0.06	0.064	--	0.0831 J	0.132	0.0959 J	0.118	0.117	0.158	0.192
Lead	mg/L	0.000154 J	0.000115 J	0.000202 J	0.000181 J	--	<0.001	<0.001	<0.001	<6.8e-005	0.000224	0.0002 J	0.000298
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	--	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.000102	<0.000102	<0.005075	<0.005075	--	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.000102
Selenium	mg/L	0.000715 J	<0.000508	0.00107	0.000704 J	--	<0.002	0.00237 J	<0.002	0.0013	0.00321	0.00192	0.00692
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	--	<0.0002	<0.0002	<0.0002	7.61e-005 J	0.000106 J	9.45e-005 J	0.000158 J

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-PZ-4		GC-AP-MW-34HA									
		05/17/2023	10/24/2023	01/17/2019	09/10/2019	04/22/2020	08/12/2020	03/15/2021	08/23/2021	03/28/2022	10/19/2022	05/31/2023	11/01/2023
<b>Appendix III</b>													
Boron	mg/L	0.316	0.25	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	207	167	25.3	12.8	12	9.68	12.6	11.1	10.8	12.1	15.6	16.8
Chloride	mg/L	7.79	7.95	7.87	5.54	7.6	2.07	5.81	4.36	3.52	3.71	6.86	6.78
Fluoride	mg/L	0.0997 J	0.072	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.06
pH_Field	SU	5.34	5.44	--	4.87	5.45	4.78	5.32	5.54	4.44	5.42	5.63	5.96
Sulfate	mg/L	840	607	47.9	27.1	26.8	13.5	25.6	24.8	27	22.6	23.2	28.2
TDS	mg/L	1330	1070	156	112	114	66	96	89.3	88.7	86.7	116	123
<b>Appendix IV</b>													
Antimony	mg/L	<0.00071	<0.00071	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	0.00189	0.00248	<0.001	<0.001	<0.001	<0.001	0.000158 J	0.00042	0.000129 J	9.57e-005 J	<0.000112	0.000128 J
Barium	mg/L	0.0633	0.0614	0.0714	0.0554	0.0578	0.0467	0.0532	0.0478	0.0481	0.0444	0.0539	0.046
Beryllium	mg/L	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	0.000254	0.000158 J	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000317 J	0.000211 J	<0.002	<0.002	<0.002	<0.002	0.000473 J	0.000298 J	0.000354 J	0.000255 J	0.000236 J	0.000258 J
Cobalt	mg/L	0.755	0.534	0.033	0.0131	0.00675	0.00222 J	0.00198	0.00159	0.00117	0.00114	0.00151	0.00155
Combined Radium 226 + 228	pCi/L	2.36	1.82	0.628	0.656	0.473 U	2.1	0.858 U	0.336 U	0.466 U	0.0804 U	1.33	0.148 U
Fluoride	mg/L	0.0997 J	0.072	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.06
Lead	mg/L	0.000334	0.000414	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.005075	<0.005075	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.005075	<0.005075
Selenium	mg/L	0.00189	0.00193	<0.002	<0.002	<0.002	<0.002	0.000704 J	<0.000508	0.0006 J	0.000622 J	<0.000508	<0.000508
Thallium	mg/L	8.39e-005 J	0.000141 J	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-35H										GC-AP-MW-36H	
		01/16/2019	09/11/2019	04/21/2020	08/18/2020	03/16/2021	08/24/2021	04/06/2022	10/17/2022	05/23/2023	10/24/2023	01/30/2019	09/11/2019
<b>Appendix III</b>													
Boron	mg/L	0.0284 J	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.164	0.147
Calcium	mg/L	19.6	22.2	47.3	22.9	24.9	21	22.5	23.7	22.1	23.5	2.85	1.16
Chloride	mg/L	3.1	1.15	3.62	1.12	1.91	2.79	1.48	2.97	2.92	4.15	3.04	3.95
Fluoride	mg/L	<0.05	0.082 J	0.16	0.0766 J	0.0841 J	0.0681 J	<0.06	<0.06	0.116 J	0.0582	0.264	0.289
pH_Field	SU	--	5.6	6.54	6.03	6.16	6.08	5.24	6.19	6.26	5.74	--	7.2
Sulfate	mg/L	34.9	30	44.5	28.8	32.4	22.9	32.3	25.6	25.2	34.4	11	11
TDS	mg/L	85.3	100	176	100	111	94	92	96	90.7	101	184	182
<b>Appendix IV</b>													
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	0.0001 J	0.000105 J	0.000129 J	0.000174 J	<0.000112	<0.000112	0.0034 J	0.00222 J
Barium	mg/L	0.0492	0.0369	0.0473	0.033	0.04	0.0336	0.0385	0.0386	0.0394	0.0464	0.00776 J	0.00323 J
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	0.000912 J	0.000753 J	0.000514 J	0.000588 J	0.000525 J	0.000332 J	<0.002	0.0155
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	7.55e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<0.002	<0.002
Combined Radium 226 + 228	pCi/L	0.0207 U	0.734	0.423 U	0.636 U	0.536 U	0.492 U	0.108 U	0.533 U	0.593 U	0.702 U	0.479 U	0.412 U
Fluoride	mg/L	<0.05	0.082 J	0.16	0.0766 J	0.0841 J	0.0681 J	<0.06	<0.06	0.116 J	0.0582	0.264	0.289
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.000102	<0.000102	<0.002	<0.002
Selenium	mg/L	0.00367 J	0.00404 J	0.00451 J	0.00268 J	0.00362	0.00237	0.00364	0.00352	0.00285	0.00326	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-36H								GC-AP-MW-37H			
		04/22/2020	08/11/2020	03/09/2021	08/24/2021	03/30/2022	10/17/2022	05/22/2023	10/25/2023	01/15/2019	04/22/2020	08/19/2020	03/16/2021
<b>Appendix III</b>													
Boron	mg/L	0.143	0.145	0.159	0.139	0.145	0.143	0.143	0.14	0.224	0.186	0.229	0.159
Calcium	mg/L	0.941	1.06	0.99	1.07	1.01	0.791	0.908	0.851	231	175	143	148
Chloride	mg/L	4.4	3.28	2.9	2.91	3.04	2.36	2.34	1.99	13.4	10.3	13.9	13
Fluoride	mg/L	0.279	0.325	0.365	0.318	0.301	0.347	0.356	0.321	0.0512 J	0.197	0.141	0.263
pH_Field	SU	7.72	7.69	7.79	7.06	7.81	7.92	7.61	7.98	--	6.23	5.95	6.32
Sulfate	mg/L	10.9	8.73	10.4	9.79	10.3	9.18	10.9	13.7	780	510	402	368
TDS	mg/L	199	184	185	181	170	165	167	185	1210	977	834	756
<b>Appendix IV</b>													
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008	<0.0008	<0.000507
Arsenic	mg/L	0.00168 J	0.00223 J	0.00291	0.00235	0.00263	0.00202	0.00211	0.002	<0.001	0.00768	0.00618	0.00685
Barium	mg/L	0.0027 J	0.00393 J	0.00297	0.00261	0.00372	0.00282	0.0027	0.00357	0.0454	0.0248	0.0591	0.0347
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005
Chromium	mg/L	<0.002	<0.002	0.00143	0.000961 J	0.00108	0.00115	0.00101 J	0.00114	<0.002	<0.002	<0.002	0.000381 J
Cobalt	mg/L	<0.002	<0.002	0.000522	0.000321	0.0007	0.00039	0.000322	0.000572	0.0407	0.0327	0.0176	0.0225
Combined Radium 226 + 228	pCi/L	-0.103 U	0.223 U	0.296 U	0.253 U	0.174 U	0.65 U	0.668 U	0.757 U	0.354 U	0.273 U	0.994	0.954 U
Fluoride	mg/L	0.279	0.325	0.365	0.318	0.301	0.347	0.356	0.321	0.0512 J	0.197	0.141	0.263
Lead	mg/L	<0.001	<0.001	0.000447	0.000306	0.000368	0.000349	0.000346	0.000493	<0.001	<0.001	<0.001	<6.8e-005
Lithium	mg/L	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.0141 J	0.0134 J	0.0108 J	0.0107 J
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	0.000166 J	8.67e-005 J	0.000175 J	0.000144 J	<0.005075	<0.005075	<0.002	<0.002	<0.002	0.000373
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-37H						GC-AP-MW-38H					
		08/24/2021	03/28/2022	03/29/2022	10/17/2022	05/23/2023	10/25/2023	01/14/2019	09/11/2019	04/22/2020	08/19/2020	03/10/2021	08/24/2021
<b>Appendix III</b>													
Boron	mg/L	0.179	--	0.157	0.159	0.159	0.175	0.148	0.175	0.118	0.135	0.104	0.105
Calcium	mg/L	143	--	118	148	158	155	123	84	83.9	96	96.2	109
Chloride	mg/L	9.19	--	5.57	13.2	12.9	12.3	37.9	3.82	2.25	3.4	2.3	4.46
Fluoride	mg/L	0.194	--	0.189	0.138	0.141	0.134	0.0841 J	0.142	0.135	0.149	0.131	0.197
pH_Field	SU	6.12	--	6.36	6.23	6.26	6.35	--	6.55	6.66	6.57	6.67	5.84
Sulfate	mg/L	383	--	303	306	374	400	103	60.5	66.5	70	44.8	68.2
TDS	mg/L	742	--	624	706	834	1560	381	280	290	308	308	345
<b>Appendix IV</b>													
Antimony	mg/L	<0.000508	--	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	0.00811	--	0.011	0.00335	0.00924	0.00561	<0.001	<0.001	<0.001	<0.001	<6.8e-005	0.00012 J
Barium	mg/L	0.037	--	0.0235	0.106	0.0845	0.0854	0.0814	0.0581	0.0607	0.0678	0.0719	0.0872
Beryllium	mg/L	<0.000406	--	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	--	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000259 J	--	0.000366 J	0.000624 J	0.000433 J	0.000425 J	0.0117	<0.002	<0.002	<0.002	0.000421 J	0.000381 J
Cobalt	mg/L	0.0228	--	0.0198	0.00563	0.0147	0.00966	<0.002	0.00363 J	<0.002	<0.002	0.000455	0.000706
Combined Radium 226 + 228	pCi/L	0.282 U	0.405 U	0.405 U	0.881 U	0.804 U	0.565 U	0.359 U	1.22	0.413 U	0.347 U	0.566 U	0.417 U
Fluoride	mg/L	0.194	--	0.189	0.138	0.141	0.134	0.0841 J	0.142	0.135	0.149	0.131	0.197
Lead	mg/L	<6.8e-005	--	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0112 J	--	0.00867 J	0.00728 J	0.00795 J	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105
Mercury	mg/L	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.000369	--	0.00079	0.000164 J	<0.005075	<0.005075	0.00574 J	0.00203 J	<0.002	<0.002	0.000699	0.000476
Selenium	mg/L	<0.000508	--	<0.000508	<0.000508	<0.000508	<0.000508	0.018	0.0155	0.0111	0.0108	0.0124	0.0148
Thallium	mg/L	<6.8e-005	--	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-38H				GC-AP-MW-39H							
		03/30/2022	10/18/2022	05/23/2023	10/23/2023	01/15/2019	09/11/2019	04/22/2020	08/11/2020	03/09/2021	08/24/2021	04/06/2022	10/18/2022
<b>Appendix III</b>													
Boron	mg/L	0.102	0.097 J	0.071 J	0.0774 J	1.68	1.67	1.89	1.84	1.81	2	2.21	2.07
Calcium	mg/L	93.5	117	110	85.3	97.6	91.6	102	111	108	115	119	131
Chloride	mg/L	3.8	3.6	4.23	2.34	14.3	14.1	12.9	7.85	8.06	7.38	8.35	6.02
Fluoride	mg/L	0.0661 J	0.151	0.144	0.149	0.465	0.443	0.446	0.494	0.458	0.508	0.39	0.423
pH_Field	SU	6.62	6.7	6.59	6.63	--	6.17	6.42	6.7	6.47	6.13	6.31	6.59
Sulfate	mg/L	51.9	40.6	32.7	31	48.5	44.1	31.7	51.7	32.2	34.1	31	25
TDS	mg/L	282	288	284	281	597	454	512	526	524	490	452	478
<b>Appendix IV</b>													
Antimony	mg/L	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	9.44e-005 J	0.000208	0.000132 J	0.000304	0.0514	0.053	0.0533	0.0635	0.0697	0.069	0.0524	0.0603
Barium	mg/L	0.0702	0.0956	0.103	0.0966	0.185	0.173	0.192	0.177	0.206	0.213	0.178	0.21
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000372 J	0.00022 J	0.00043 J	0.000537 J	<0.002	<0.002	<0.002	<0.002	0.000342 J	0.000327 J	0.000286 J	<0.000203
Cobalt	mg/L	0.000338	0.000519	0.000842	0.000571	0.0173	0.0194	0.0192	0.0176	0.0178	0.0183	0.0173	0.0151
Combined Radium 226 + 228	pCi/L	0.248 U	0.54 U	0.38 U	0.805 U	0.901	1.16	1.48	2.02	1.62	0.823 U	1.24	1.18
Fluoride	mg/L	0.0661 J	0.151	0.144	0.149	0.465	0.443	0.446	0.494	0.458	0.508	0.39	0.423
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	0.000408	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	0.399	0.45	0.41	0.47	0.474	0.47	0.336	0.377
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.000759	0.00031	<0.005075	<0.005075	0.00419 J	0.00338 J	0.00246 J	0.00401 J	0.0047	0.00376	0.00174	0.00284
Selenium	mg/L	0.00902	0.0197	0.0163	0.0104	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.00092 J	0.000983 J	0.0008 J	0.000814 J	0.000828	0.000762	0.000594	0.000636

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-39H		GC-AP-MW-40H									
		05/24/2023	10/31/2023	01/15/2019	09/10/2019	04/20/2020	08/12/2020	03/10/2021	08/25/2021	03/30/2022	10/05/2022	05/31/2023	10/24/2023
<b>Appendix III</b>													
Boron	mg/L	2.19	2.14	0.702	0.734	0.821	0.807	0.807	0.627	0.506	0.541	0.536	0.527
Calcium	mg/L	126	134	60.7	97.5	88.2	115	109	108	96	106	90.2	96
Chloride	mg/L	6.51	4.89	13	10.5	10.8	8.34	6.74	6.66	5.72	7.05	6.63	7.82
Fluoride	mg/L	0.442	0.436	0.0981 J	0.18	0.0952 J	0.145	0.112	0.142	<0.06	0.133	0.105 J	0.0926
pH_Field	SU	6.47	6.56	--	5.61	5.63	5.83	5.99	5.91	5.69	5.77	6.01	5.78
Sulfate	mg/L	26.2	22	224	291	247	285	292	330	290	264	251	234
TDS	mg/L	512	492	392	576	534	588	602	562	493	471	465	462
<b>Appendix IV</b>													
Antimony	mg/L	<0.00071	<0.00071	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	0.0595	0.0581	<0.001	<0.001	<0.001	<0.001	0.000443	0.000434	0.000273	0.000232	0.000308	0.000322
Barium	mg/L	0.249	0.26	0.0361	0.0294	0.0282	0.0295	0.0322	0.0296	0.0277	0.0241	0.025	0.026
Beryllium	mg/L	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	0.000171 J	8.41e-005 J	0.00018 J	9.58e-005 J	0.000157 J	0.000142 J
Chromium	mg/L	<0.000203	<0.000203	<0.002	<0.002	<0.002	<0.002	0.000226 J	0.000232 J	0.000304 J	<0.000203	<0.000203	<0.000203
Cobalt	mg/L	0.0153	0.0162	0.0203	0.0139	0.0132	0.00717	0.00791	0.00901	0.0103	0.00884	0.0131	0.0123
Combined Radium 226 + 228	pCi/L	1.52	1.91	0.387 U	0.519 U	0.66	0.928	0.522 U	1.09 U	0.745 U	0.814 U	2.06	0.352 U
Fluoride	mg/L	0.442	0.436	0.0981 J	0.18	0.0952 J	0.145	0.112	0.142	<0.06	0.133	0.105 J	0.0926
Lead	mg/L	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.378	0.361	0.407	0.545	0.628	0.669	0.772	0.734	0.707	0.729	0.738	0.681
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.005075	<0.005075	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.005075	<0.005075
Selenium	mg/L	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	0.000665	0.000595	<0.0002	0.000223 J	<0.0002	0.000208 J	0.000186 J	0.000134 J	0.000168 J	0.000188 J	7.59e-005 J	0.00012 J

**Notes:**

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3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-41H										GC-AP-MW-42H	
		01/15/2019	09/11/2019	04/29/2020	08/18/2020	03/15/2021	08/25/2021	04/06/2022	10/18/2022	05/31/2023	10/31/2023	01/15/2019	09/11/2019
<b>Appendix III</b>													
Boron	mg/L	0.762	0.758	0.699	0.689	0.659	0.632	0.607	0.585	0.56	0.564	1.73	1.88
Calcium	mg/L	115	72.1	70.8	66.7	70.4	78.3	110	130	127	149	70	57.2
Chloride	mg/L	16.6	16.5	16.1	15.9	15.9	14.4	13.6	13.8	13.3	12.9	19.9	20.7
Fluoride	mg/L	0.0859 J	0.0609 J	0.0857 J	0.092 J	0.0721 J	0.074 J	<0.06	<0.06	0.0663 J	0.0599	<0.05	0.063 J
pH_Field	SU	--	5.96	6.37	5.93	6.43	6.13	6.16	6.39	6.19	6.48	--	6.2
Sulfate	mg/L	96	79.1	77.2	76.6	80.9	147	236	236	292	300	9.73	9.43
TDS	mg/L	433	334	317	299	321	376	488	484	565	570	334	299
<b>Appendix IV</b>													
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008
Arsenic	mg/L	0.002 J	0.00208 J	0.00182 J	0.00171 J	0.00174	0.00182	0.00197	0.00204	0.00185	0.002	0.00372 J	0.00583
Barium	mg/L	0.13	0.1	0.0998	0.0879	0.116	0.128	0.145	0.119	0.124	0.12	0.162	0.123
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	0.000553 J	0.000392 J	0.000525 J	0.000486 J	0.000386 J	0.000272 J	<0.002	0.00325 J
Cobalt	mg/L	0.0044 J	0.00897	0.00777	0.00814	0.00472	0.0101	0.0185	0.015	0.018	0.0233	0.0281	0.0449
Combined Radium 226 + 228	pCi/L	0.839	0.13 U	0.684	0.742	0.946 U	0.938 U	1.12	1.65	1.3	1.27 U	0.739	0.195 U
Fluoride	mg/L	0.0859 J	0.0609 J	0.0857 J	0.092 J	0.0721 J	0.074 J	<0.06	<0.06	0.0663 J	0.0599	<0.05	0.063 J
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	7.51e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001
Lithium	mg/L	0.0411	0.0396	0.041	0.039	0.0459	0.0545	0.0809	0.0617	0.0792	0.127	0.0146 J	0.0169 J
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	0.000131 J	9.62e-005 J	0.000131 J	0.000147 J	<0.005075	<0.005075	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-42H								GC-AP-MW-43H			
		04/21/2020	08/19/2020	03/09/2021	08/18/2021	04/06/2022	10/19/2022	05/30/2023	10/25/2023	01/16/2019	09/11/2019	04/21/2020	08/19/2020
<b>Appendix III</b>													
Boron	mg/L	1.76	1.26	1.26	1.03	1.46	1.95	1.58	1.87	0.835	1.07	1.08	1.15
Calcium	mg/L	56.5	59.3	69.5	74.4	69.6	91.4	70.6	94.5	54.9	60.7	81.4	99.7
Chloride	mg/L	19.9	18.2	18.4	17	15.4	17.6	16.6	16.2	26.1	31.4	40.4	46.9
Fluoride	mg/L	0.0701 J	0.077 J	0.0697 J	0.111	<0.06	<0.06	0.089 J	0.0583	0.0888 J	0.127	0.147	0.154
pH_Field	SU	6.01	6.27	6.29	6.16	6.1	6.27	6.2	6.35	--	6.52	6.18	6.18
Sulfate	mg/L	12.4	55.7	74.8	83.6	94.3	168	124	146	74	45.7	59.7	71.8
TDS	mg/L	299	371	375	401	368	431	377	414	345	368	463	534
<b>Appendix IV</b>													
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	0.00417 J	0.00445 J	0.00343	0.00456	0.00515	0.00487	0.00455	0.00421	0.00816	0.0124	0.0101	0.0103
Barium	mg/L	0.108	0.119	0.135	0.145	0.147	0.154	0.133	0.153	0.12	0.127	0.156	0.168
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	0.000682	8.98e-005 J	0.000241	0.000187 J	0.000152 J	0.000127 J	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	0.000286 J	<0.000203	0.000278 J	<0.000203	0.000242 J	<0.000203	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.0359	0.037	0.0559	0.0436	0.0651	0.0693	0.05	0.0411	0.0131	0.0143	0.0162	0.0173
Combined Radium 226 + 228	pCi/L	0.678	0.687	0.618 U	1.9	1.01	1.77	1.45	1.74	0.426 U	0.558 U	1.89	1.99
Fluoride	mg/L	0.0701 J	0.077 J	0.0697 J	0.111	<0.06	<0.06	0.089 J	0.0583	0.0888 J	0.127	0.147	0.154
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	0.0174 J	0.0168 J	0.0172 J	0.0304	0.0231	0.0212	0.029	0.0437	0.178	0.254	0.376	0.336
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	0.000315	0.000148 J	0.000233	0.000531	<0.005075	<0.005075	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002

**Notes:**

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3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-43H						GC-AP-MW-44H					
		03/09/2021	08/18/2021	04/06/2022	10/19/2022	05/24/2023	10/25/2023	01/16/2019	09/11/2019	04/20/2020	08/12/2020	03/10/2021	08/23/2021
<b>Appendix III</b>													
Boron	mg/L	1.14	1.23	1.29	1.22	1.21	1.02	0.173	0.199	0.2	0.197	0.218	0.208
Calcium	mg/L	102	106	110	119	114	94.8	174	179	167	173	159	138
Chloride	mg/L	41.6	35.8	38.3	33.9	30.5	41.1	12.3	11.8	12	10.8	11.9	13.1
Fluoride	mg/L	0.135	0.166	0.133	0.134	0.126	0.112	0.0727 J	0.0783 J	0.0638 J	0.0867 J	0.0611 J	0.11
pH_Field	SU	6.47	6.46	6.43	6.53	6.38	6.41	--	6.11	6.11	6.27	6.14	6.07
Sulfate	mg/L	91.3	107	105	109	103	73.7	394	409	429	415	410	406
TDS	mg/L	570	578	562	554	578	511	706	1570	790	728	794	714
<b>Appendix IV</b>													
Antimony	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	0.0117	0.0116	0.011	0.0113	0.0113	0.0114	<0.001	0.00269 J	0.00215 J	0.00197 J	0.00172	0.00263
Barium	mg/L	0.211	0.187	0.168	0.164	0.162	0.159	0.131	0.0797	0.0594	0.0589	0.064	0.0596
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	0.000411	0.00032
Chromium	mg/L	0.000227 J	<0.000203	0.000264 J	0.000235 J	0.00022 J	<0.000203	<0.002	<0.002	<0.002	<0.002	0.000428 J	0.000302 J
Cobalt	mg/L	0.0175	0.0196	0.0184	0.02	0.0181	0.017	0.106	0.106	0.324	0.273	0.415	0.428
Combined Radium 226 + 228	pCi/L	1.54	1.64	1.84	1.67	1.79	1.93	0.422 U	0.637 U	0.386 U	4.07	0.923 U	1.13
Fluoride	mg/L	0.135	0.166	0.133	0.134	0.126	0.112	0.0727 J	0.0783 J	0.0638 J	0.0867 J	0.0611 J	0.11
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	0.448	0.344	0.261	0.225	0.184	0.122	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0026	0.00283	0.00264	0.00283	<0.005075	<0.005075	<0.002	<0.002	<0.002	<0.002	0.000171 J	0.000182 J
Selenium	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-44H				GC-AP-MW-45H								
		04/04/2022	10/05/2022	05/16/2023	10/31/2023	12/17/2019	04/20/2020	08/17/2020	03/10/2021	08/18/2021	03/29/2022	10/18/2022	05/22/2023	
<b>Appendix III</b>														
Boron	mg/L	0.202	0.194	0.201	0.182	0.186	0.426	0.57	0.625	0.646	0.57	0.489	0.536	
Calcium	mg/L	137	137	132	144	47.6	64.9	57.2	39.3	122	110	83.4	110	
Chloride	mg/L	13.7	7.16	14.9	12.2	8.56	10.9	8.99	6.5	9.94	9.58	9.25	8.49	
Fluoride	mg/L	<0.06	0.104 J	0.114 J	0.0705	0.241	0.176	0.195	0.176	0.172	0.13	0.147	0.154	
pH_Field	SU	5.56	6.06	6.14	6.2	7.72	7.14	6.94	6.83	6.84	6.83	6.38	6.65	
Sulfate	mg/L	390	376	308	297	94.6	157	128	90.9	395	361	219	247	
TDS	mg/L	604	606	545	549	247	369	305	247	730	646	388	508	
<b>Appendix IV</b>														
Antimony	mg/L	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	
Arsenic	mg/L	0.00187	0.00171	0.002	0.00179	<0.001	0.00153 J	<0.001	0.00147	0.00143	0.000952	0.00088	0.000837	
Barium	mg/L	0.0482	0.0475	0.0481	0.0482	0.0977	0.0898	0.0632	0.0543	0.0942	0.0534	0.0372	0.0532	
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	
Cadmium	mg/L	0.000301	0.000302	0.00019 J	0.000136 J	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000125 J	
Chromium	mg/L	0.000225 J	<0.000203	0.000387 J	0.000354 J	0.00266 J	<0.002	<0.002	0.000314 J	0.0003 J	0.000262 J	0.00023 J	0.000234 J	
Cobalt	mg/L	0.323	0.288	0.25	0.251	0.00465 J	0.00451 J	0.00458 J	0.00442	0.0119	0.0108	0.00703	0.0097	
Combined Radium 226 + 228	pCi/L	0.795 U	1.17	0.741 U	1.24	0.885	0.529	1.16	0.21 U	1.1	0.661 U	0.914 U	1.24 U	
Fluoride	mg/L	<0.06	0.104 J	0.114 J	0.0705	0.241	0.176	0.195	0.176	0.172	0.13	0.147	0.154	
Lead	mg/L	<6.8e-005	<6.8e-005	7.31e-005 J	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	0.123	0.148	0.212	0.194	0.367	0.411	0.296	0.47	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.000102	0.000228	<0.005075	<0.005075	0.0721	0.0703	0.0737	0.0852	0.0752	0.0652	0.066	0.0593	
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	
Thallium	mg/L	<6.8e-005	8.68e-005 J	<6.8e-005	8.69e-005 J	<0.0002	<0.0002	<0.0002	0.000103 J	0.000205	0.000125 J	0.000159 J	0.000273	

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-45H	GC-AP-MW-46HO								GC-AP-MW-47HO		
		10/31/2023	07/06/2020	08/11/2020	03/08/2021	08/17/2021	03/23/2022	10/04/2022	05/17/2023	10/18/2023	05/28/2020	08/11/2020	03/08/2021
<b>Appendix III</b>													
Boron	mg/L	0.511	0.274	0.252	0.658	0.391	0.355	0.302	0.321	0.314	0.143	0.0903 J	0.0769 J
Calcium	mg/L	132	51.1	57.8	47.1	55	49.6	61.5	50.2	57.4	38.6	15.9	12.9
Chloride	mg/L	10.3	4.5	4.27	8.51	7.75	7.84	5.71	5.62	9.4	4.92	3.18	8.78
Fluoride	mg/L	0.157	0.185	0.169	0.187	0.177	0.166	0.151	0.177	0.143	0.0647 J	<0.06	<0.06
pH_Field	SU	6.83	6.69	6.38	6.86	6.7	6.55	6.27	6.7	6.72	6.99	6.25	5.74
Sulfate	mg/L	309	83.4	54.5	96.1	111	131	82.2	89.9	87.4	81.5	49.3	31.4
TDS	mg/L	575	260	258	282	303	300	257	258	277	195	109	93.3
<b>Appendix IV</b>													
Antimony	mg/L	<0.00071	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008	<0.000507
Arsenic	mg/L	0.000744	<0.001	<0.001	0.000339	0.000269	0.000166 J	0.000268	0.000274	0.00024	<0.001	<0.001	0.000152 J
Barium	mg/L	0.0493	0.0613	0.0653	0.0523	0.0563	0.0584	0.0574	0.0578	0.0658	0.0267	0.0204	0.0229
Beryllium	mg/L	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406
Cadmium	mg/L	0.000128 J	<0.0003	<0.0003	<6.8e-005	0.000104 J	<6.8e-005	9.56e-005 J	7.49e-005 J	<6.8e-005	<0.0003	<0.0003	<6.8e-005
Chromium	mg/L	0.000278 J	<0.002	<0.002	<0.000203	0.000285 J	0.000282 J	0.000215 J	<0.000203	<0.000203	<0.002	<0.002	<0.000203
Cobalt	mg/L	0.00947	<0.002	<0.002	0.00155	0.00293	0.00516	0.00561	0.00276	0.00337	<0.002	<0.002	<6.8e-005
Combined Radium 226 + 228	pCi/L	0.66 U	0.292 U	0.477 U	0.291 U	0.651 U	0.547 U	0.744 U	0.641 U	0.867 U	-0.0036 U	0.208 U	0.568 U
Fluoride	mg/L	0.157	0.185	0.169	0.187	0.177	0.166	0.151	0.177	0.143	0.0647 J	<0.06	<0.06
Lead	mg/L	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005
Lithium	mg/L	0.501	0.089	0.097	0.0991	0.114	0.123	0.125	0.11	0.137	0.0527	0.0457	0.0456
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.0608	0.0661	0.0443	0.0761	0.0555	0.0489	0.0442	0.0651	0.0562	<0.002	<0.002	<6.8e-005
Selenium	mg/L	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.000507
Thallium	mg/L	0.000248	<0.0002	<0.0002	<6.8e-005	<6.8e-005	6.96e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-47HO					GC-AP-MW-48H						
		08/17/2021	03/23/2022	10/04/2022	05/22/2023	10/24/2023	12/17/2019	04/21/2020	08/17/2020	03/10/2021	08/18/2021	03/30/2022	10/18/2022
<b>Appendix III</b>													
Boron	mg/L	0.105	0.159	0.115	0.0956 J	0.0838 J	0.237	0.172	0.218	0.188	0.131	0.0985 J	0.0976 J
Calcium	mg/L	16.4	20.7	13	13.2	12.5	31	28.9	27.6	22.1	18	13.4	13.8
Chloride	mg/L	8.79	8.8	3.86	3.95	3.28	14.3	12.3	11.9	8.31	4.28	3.44	4.34
Fluoride	mg/L	<0.06	<0.06	0.0647 J	<0.06	0.0226 J	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
pH_Field	SU	5.98	5.3	5.87	5.53	5.85	6.65	6.5	6.24	6.35	5.96	5.4	5.14
Sulfate	mg/L	52.1	61.6	42.8	34.7	36.4	102	90.2	78	62	49.4	36.4	36.2
TDS	mg/L	121	137	98.7	89.3	92.7	228	208	181	158	124	84	88.7
<b>Appendix IV</b>													
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.000136 J	<8.1e-005	9.12e-005 J	<0.000112	<0.000112	<0.001	0.0021 J	<0.001	0.000557	0.000247	0.000139 J	0.000103 J
Barium	mg/L	0.0297	0.0332	0.0246	0.0229	0.0238	0.05	0.028	0.027	0.0281	0.0244	0.0253	0.0269
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	7.26e-005 J	<6.8e-005	0.000162 J
Chromium	mg/L	0.00039 J	0.000307 J	0.00021 J	<0.000203	<0.000203	<0.002	<0.002	<0.002	0.00026 J	<0.000203	0.000237 J	0.000302 J
Cobalt	mg/L	0.000247	0.000238	0.000119 J	7.55e-005 J	<6.8e-005	0.00916	0.00236 J	<0.002	0.000388	0.000396	0.000181 J	0.000226
Combined Radium 226 + 228	pCi/L	0.339 U	0.214 U	0.714 U	0.154 U	0.398 U	0.604	0.251 U	1.11	0.57 U	0.595 U	0.315 U	0.152 U
Fluoride	mg/L	<0.06	<0.06	0.0647 J	<0.06	0.0226 J	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0453	0.0531	0.0422	0.0366	0.0362	0.113	0.0924	0.108	0.102	0.0822	0.0704	0.061
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<6.8e-005	<0.000102	<0.000102	<0.005075	<0.005075	<0.002	<0.002	<0.002	0.000144 J	7.03e-005 J	<0.000102	<0.000102
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-48H		GC-AP-MW-49H								
		05/30/2023	10/25/2023	12/17/2019	04/21/2020	08/19/2020	03/10/2021	08/18/2021	03/30/2022	10/19/2022	05/30/2023	10/25/2023
<b>Appendix III</b>												
Boron	mg/L	0.0653 J	0.0673 J	0.252	0.272	0.213	0.224	0.157	0.33	0.437	0.413	0.423
Calcium	mg/L	9.8	9.68	48.5	36.8	27.4	27.3	19.5	27.8	32.4	29.6	32.7
Chloride	mg/L	2.77	3.12	13.3	11.3	7.53	7.57	5.3	8.12	9.04	8.09	7.97
Fluoride	mg/L	0.087 J	<0.02	0.143	0.075 J	0.0823 J	<0.06	0.0638 J	0.0724 J	0.0628 J	0.0965 J	0.073
pH_Field	SU	5.45	5.76	6.72	6.28	6.14	6.14	6.05	5.72	5.6	5.6	5.6
Sulfate	mg/L	24.9	27.9	94.1	90.8	70.7	76.1	51.4	106	109	127	126
TDS	mg/L	66.7	65.3	258	222	171	181	130	184	211	229	231
<b>Appendix IV</b>												
Antimony	mg/L	<0.00071	<0.00071	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	<0.000112	<0.000112	<0.001	<0.001	<0.001	0.000592	0.000739	0.000409	0.00044	0.000469	0.000422
Barium	mg/L	0.024	0.0248	0.0761	0.0437	0.0394	0.0406	0.0492	0.0642	0.0545	0.0497	0.0511
Beryllium	mg/L	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	7.83e-005 J	<0.0003	<0.0003	0.000334 J	0.00017 J	0.000212	0.000286	0.000463	0.000412	0.000377
Chromium	mg/L	<0.000203	<0.000203	<0.002	<0.002	<0.002	0.000366 J	0.000402 J	0.000211 J	0.000244 J	0.000292 J	<0.000203
Cobalt	mg/L	0.000153 J	0.000143 J	0.0139	0.00799	0.00853	0.00662	0.00507	0.00562	0.00683	0.00769	0.00815
Combined Radium 226 + 228	pCi/L	0.667 U	0.356 U	0.701	0.594	0.0107 U	0.261 U	1.11 U	0.254 U	0.484 U	0.788 U	0.701 U
Fluoride	mg/L	0.087 J	<0.02	0.143	0.075 J	0.0823 J	<0.06	0.0638 J	0.0724 J	0.0628 J	0.0965 J	0.073
Lead	mg/L	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	0.0482	0.0435	0.0528	0.0733	0.0511	0.0681	0.0538	0.0726	0.0722	0.0691	0.0668
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.005075	<0.005075	0.00854 J	<0.002	<0.002	0.000173 J	0.000223	0.000187 J	0.000541	<0.005075	<0.005075
Selenium	mg/L	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-50HO								GC-AP-MW-52HO		
		05/28/2020	08/11/2020	03/08/2021	08/17/2021	03/23/2022	10/04/2022	05/23/2023	10/24/2023	07/06/2020	08/11/2020	03/08/2021
<b>Appendix III</b>												
Boron	mg/L	0.343	0.329	0.302	0.281	0.508	0.328	0.336	0.182	1.2	1.25	1.25
Calcium	mg/L	40.1	39.5	32.7	38.1	38.7	37.2	51.5	25.9	75.6	73.1	63.3
Chloride	mg/L	13.4	11.2	13.7	14.5	17.7	12.8	14.1	5.1	103	87.4	90
Fluoride	mg/L	0.138	0.16	0.127	0.155	0.16	0.157	0.135	0.11	0.0721 J	0.0762 J	0.0628 J
pH_Field	SU	6.42	6.24	6.36	6.07	6.17	6.27	6.24	6.05	6.07	6.08	5.98
Sulfate	mg/L	94.7	79	71.5	83.1	60.4	79.4	98.9	57.2	78.2	64.1	56.9
TDS	mg/L	242	229	218	217	236	217	244	151	498	462	469
<b>Appendix IV</b>												
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008	<0.000507
Arsenic	mg/L	<0.001	<0.001	0.000267	0.000319	0.000144 J	0.000164 J	0.00025	0.000122 J	<0.001	<0.001	0.00027
Barium	mg/L	0.0701	0.064	0.0685	0.0707	0.0762	0.0696	0.0707	0.0457	0.129	0.116	0.131
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406
Cadmium	mg/L	<0.0003	<0.0003	0.000287	0.000242	0.000372	0.000218	0.000413	0.000245	0.000366 J	0.00042 J	0.000227
Chromium	mg/L	<0.002	<0.002	0.00028 J	0.000808 J	0.00051 J	<0.000203	<0.000203	<0.000203	<0.002	<0.002	<0.000203
Cobalt	mg/L	0.00801	0.0056	0.00553	0.00608	0.0096	0.00685	0.00702	0.00517	0.0158	0.0129	0.0153
Combined Radium 226 + 228	pCi/L	0.612	0.883	1 U	0.939 U	0.908 U	0.402 U	0.673 U	0.868 U	0.432 U	0.777	2.06
Fluoride	mg/L	0.138	0.16	0.127	0.155	0.16	0.157	0.135	0.11	0.0721 J	0.0762 J	0.0628 J
Lead	mg/L	<0.001	<0.001	0.000122 J	0.000294	0.00013 J	<6.8e-005	0.000183 J	7.29e-005 J	<0.001	<0.001	<6.8e-005
Lithium	mg/L	0.0979	0.0825	0.119	0.106	0.11	0.0749	0.0737	0.0673	<0.01	<0.01	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<6.8e-005	8.68e-005 J	<0.000102	<0.000102	<0.005075	<0.005075	<0.002	<0.002	<6.8e-005
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.000507
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	7.98e-005 J	0.000108 J	<6.8e-005	9.06e-005 J	<6.8e-005	<0.0002	<0.0002	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-52HO					GC-AP-MW-53H						
		08/16/2021	03/23/2022	10/03/2022	05/15/2023	10/18/2023	12/17/2019	04/20/2020	08/11/2020	03/10/2021	08/23/2021	04/06/2022	10/17/2022
<b>Appendix III</b>													
Boron	mg/L	1.35	1.33	1.39	1.54	1.47	0.288	0.309	0.493	0.338	0.517	0.329	0.555
Calcium	mg/L	61.7	63.2	91.4	87.5	96.1	115	93.1	92.8	80.8	79.2	78.5	74.6
Chloride	mg/L	60.9	123	68.3	74.2	85.7	23.9	23.9	21.2	19.4	21.1	8.11	16.2
Fluoride	mg/L	0.0613 J	0.0894 J	0.0862 J	0.104 J	0.0499	0.215	0.154	0.133	0.135	0.245	0.0882 J	0.136
pH_Field	SU	5.98	6.14	5.84	6.15	6.16	6.32	6.17	5.8	6.58	6.33	6.23	6.43
Sulfate	mg/L	42.2	38.9	37.8	51.8	82.8	38.1	14.7	12.6	44.2	11.6	123	32.1
TDS	mg/L	423	498	426	474	542	624	441	434	408	390	428	382
<b>Appendix IV</b>													
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.00014 J	0.000262	0.000177 J	0.000223	0.000131 J	0.0492	0.0806	0.0869	0.213	0.225	0.229	0.342
Barium	mg/L	0.129	0.149	0.17	0.203	0.21	0.292	0.278	0.246	0.393	0.377	0.382	0.318
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	0.000222	0.000141 J	8.48e-005 J	0.00018 J	0.000154 J	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000294 J	0.000352 J	0.00027 J	0.000224 J	<0.000203	<0.002	<0.002	<0.002	0.000474 J	0.000456 J	0.000467 J	0.000567 J
Cobalt	mg/L	0.0142	0.0164	0.0121	0.011	0.0122	0.14	0.119	0.0859	0.0204	0.0233	0.00706	0.00583
Combined Radium 226 + 228	pCi/L	1.3	0.999	2.13	1.07 U	0.848 U	0.791	1.13	1.56	1.29 U	2.06	1.59	1.34
Fluoride	mg/L	0.0613 J	0.0894 J	0.0862 J	0.104 J	0.0499	0.215	0.154	0.133	0.135	0.245	0.0882 J	0.136
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	7.05e-005 J	7.82e-005 J	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	8.2e-005 J	0.00012 J
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	0.0124 J	0.0107 J	0.0125 J	<0.007105	<0.007105	<0.007105	0.00881 J
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<6.8e-005	<0.000102	<0.000102	<0.005075	<0.005075	0.00216 J	<0.002	<0.002	0.00131	0.00142	0.000823	0.00197
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-54H											
		05/30/2023	10/31/2023	12/16/2019	04/20/2020	08/12/2020	03/10/2021	08/23/2021	04/05/2022	10/05/2022	05/23/2023	10/31/2023	05/28/2020
<b>Appendix III</b>													
Boron	mg/L	0.435	0.564	0.519	0.626	0.76	0.53	0.458	0.462	0.398	0.335	0.369	0.0435 J
Calcium	mg/L	78.7	90.1	110	98.8	101	92.8	78.2	95.6	78.8	106	125	2.61
Chloride	mg/L	12.7	15.8	11.4	9.74	10.8	11.5	6.89	8.22	<0.5	5.71	7.65	6.88
Fluoride	mg/L	0.167	0.14	0.246	0.25	0.275	0.25	0.328	0.246	0.261	0.258	0.239	<0.06
pH_Field	SU	6.66	6.61	6.89	6.58	6.67	6.87	6.67	6.59	6.41	6.92	6.8	4.47
Sulfate	mg/L	74.2	10.2	207	242	180	139	106	124	101	80	94.8	10.3
TDS	mg/L	427	362	562	545	497	444	405	419	403	428	514	56.7
<b>Appendix IV</b>													
Antimony	mg/L	<0.00071	<0.00071	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008
Arsenic	mg/L	0.242	0.302	0.328	0.41	0.467	0.45	0.454	0.401	0.425	0.389	0.498	<0.001
Barium	mg/L	0.391	0.311	0.263	0.259	0.221	0.19	0.2	0.18	0.182	0.244	0.237	0.0389
Beryllium	mg/L	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003
Chromium	mg/L	0.000512 J	0.000587 J	<0.002	<0.002	<0.002	0.000574 J	0.000388 J	0.000304 J	0.000414 J	0.000239 J	0.000374 J	<0.002
Cobalt	mg/L	0.00406	0.0038	0.00496 J	0.0203	0.0272	0.0239	0.031	0.0265	0.0331	0.0346	0.0476	<0.002
Combined Radium 226 + 228	pCi/L	1.16	1.44	1.44	1	2.14	1.41	0.978 U	0.963 U	1.56	1.95	1.63	0.0544 U
Fluoride	mg/L	0.167	0.14	0.246	0.25	0.275	0.25	0.328	0.246	0.261	0.258	0.239	<0.06
Lead	mg/L	0.000141 J	0.000132 J	<0.001	<0.001	<0.001	9.49e-005 J	<6.8e-005	<6.8e-005	0.000194 J	<6.8e-005	9.91e-005 J	<0.001
Lithium	mg/L	<0.007105	0.00794 J	0.102	0.101	0.105	0.0906	0.0805	0.0584	0.065	0.0523	0.0648	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.000331 J	<0.0003
Molybdenum	mg/L	<0.005075	<0.005075	0.0036 J	0.00223 J	0.00278 J	0.00289	0.00312	0.00291	0.00277	<0.005075	<0.005075	<0.002
Selenium	mg/L	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.





**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-55HO		GC-AP-MW-55HO					GC-AP-MW-57H				
		08/11/2020	03/09/2021	08/17/2021	03/23/2022	10/04/2022	05/23/2023	10/24/2023	12/16/2019	04/20/2020	08/12/2020	03/10/2021	08/23/2021
<b>Appendix III</b>													
Boron	mg/L	0.0406 J	0.0397 J	<0.03	0.0337 J	0.0305 J	<0.03	<0.03	0.305	0.252	0.338	0.126	0.211
Calcium	mg/L	2.43	2.62	1.96	2.26	2.52	2.01	2	90.8	69.5	79.1	29	41.4
Chloride	mg/L	6.21	5.06	4.25	4.56	4.27	2.98	3.27	8.94	7.88	6.3	55.3	8.41
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.024 J	0.162	0.189	0.165	0.112	0.244
pH_Field	SU	5.1	5.13	4.89	5.2	5.03	5.05	5.08	6.68	6.12	6.48	5.96	6.34
Sulfate	mg/L	9.32	9.2	7.2	8.46	9	5.78	6.1	212	252	274	66.5	117
TDS	mg/L	52.7	52	45.3	47.3	38.7	34	38.7	496	502	491	273	301
<b>Appendix IV</b>													
Antimony	mg/L	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508
Arsenic	mg/L	<0.001	0.00013 J	9.15e-005 J	<8.1e-005	0.000103 J	0.000116 J	<0.000112	0.0156	0.0375	0.0467	0.0196	0.029
Barium	mg/L	0.0337	0.0404	0.0317	0.0352	0.0351	0.0302	0.0282	0.111	0.0771	0.0796	0.103	0.084
Beryllium	mg/L	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406
Cadmium	mg/L	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005
Chromium	mg/L	<0.002	0.000619 J	0.000637 J	0.00107	0.000584 J	0.000518 J	0.000382 J	<0.002	<0.002	<0.002	0.000271 J	0.000289 J
Cobalt	mg/L	<0.002	0.000738	0.000946	0.00102	0.000975	0.000861	0.000696	0.0309	0.0862	0.0857	0.0345	0.0477
Combined Radium 226 + 228	pCi/L	0.462 U	1.02 U	0.442 U	0.748 U	0.823 U	0.553 U	0.641 U	0.372 U	1.5	0.991	1.25 U	1.52
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.024 J	0.162	0.189	0.165	0.112	0.244
Lead	mg/L	<0.001	8.75e-005 J	<6.8e-005	0.000102 J	8.01e-005 J	8.54e-005 J	<6.8e-005	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.005075	<0.005075	<0.002	<0.002	<0.002	0.000369	0.000892
Selenium	mg/L	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.000507	<0.000508
Thallium	mg/L	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-57H				GC-AP-MW-59HO							
		04/05/2022	10/05/2022	05/23/2023	10/31/2023	05/28/2020	08/11/2020	03/09/2021	08/17/2021	03/23/2022	10/04/2022	05/23/2023	10/24/2023
<b>Appendix III</b>													
Boron	mg/L	0.104	0.151	0.109	0.188	0.208	0.209	0.192	0.192	0.197	0.206	0.197	0.192
Calcium	mg/L	17.8	34.5	24.2	38.4	72.4	76.7	60.5	69.8	63.2	71.6	77.5	78.1
Chloride	mg/L	19.1	5.31	11.4	4.83	12.1	12.1	10.4	10.8	9.19	9.72	8.54	10.2
Fluoride	mg/L	<0.06	0.165	0.104 J	0.174	0.0914 J	0.137	0.0715 J	0.096 J	0.0775 J	0.0929 J	0.0764 J	0.0762
pH_Field	SU	5.41	5.99	6	6.46	5.99	6.16	5.94	5.85	5.88	6.06	5.78	6.01
Sulfate	mg/L	49.5	54.8	51.8	80.7	198	206	202	214	225	193	199	193
TDS	mg/L	152	206	164	267	401	407	386	403	389	377	376	389
<b>Appendix IV</b>													
Antimony	mg/L	<0.000508	<0.000508	<0.00071	<0.00071	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	0.00687	0.0177	0.00131	0.026	0.00208 J	<0.001	0.00103	0.000699	0.000819	0.000935	0.000656	0.000697
Barium	mg/L	0.088	0.0724	0.126	0.0998	0.127	0.0909	0.0795	0.0669	0.0627	0.0602	0.0543	0.0529
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	0.000799 J	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	7.08e-005 J	<6.8e-005	0.000116 J	<6.8e-005	8.64e-005 J	<6.8e-005
Chromium	mg/L	0.000416 J	<0.000203	<0.000203	<0.000203	0.00515 J	<0.002	0.000256 J	0.000573 J	0.000309 J	<0.000203	<0.000203	<0.000203
Cobalt	mg/L	0.0191	0.0334	0.0194	0.044	0.0445	0.022	0.0263	0.0216	0.0281	0.0187	0.0275	0.0199
Combined Radium 226 + 228	pCi/L	0.689 U	1.18	1.61	1.12 U	2.27	0.997	1.6	1.19 U	1.02 U	1.23	0.928 U	0.758 U
Fluoride	mg/L	<0.06	0.165	0.104 J	0.174	0.0914 J	0.137	0.0715 J	0.096 J	0.0775 J	0.0929 J	0.0764 J	0.0762
Lead	mg/L	0.000314	<6.8e-005	0.000166 J	0.000112 J	0.0026 J	<0.001	<6.8e-005	0.000172 J	<6.8e-005	9.45e-005 J	8.18e-005 J	8.28e-005 J
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.000396	0.000726	<0.005075	<0.005075	<0.002	<0.002	0.000127 J	0.000184 J	0.000116 J	0.000225	<0.005075	<0.005075
Selenium	mg/L	0.00059 J	<0.000508	<0.000508	<0.000508	<0.002	<0.002	0.000652 J	0.00051 J	0.00097 J	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	0.000121 J	0.000126 J	8.76e-005 J	0.000118 J	9.68e-005 J

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-60HO		GC-AP-MW-60HO				GC-AP-MW-61HO					
		06/29/2021	08/17/2021	03/23/2022	10/04/2022	05/23/2023	10/24/2023	06/29/2021	08/17/2021	03/23/2022	10/04/2022	05/23/2023	10/24/2023
<b>Appendix III</b>													
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	3.94	3.97	2.95	2.98	3.15	3.23	47	35.7	22.4	16.6	15.4	14.3
Chloride	mg/L	4.5	4.94	4.08	3.66	3.7	3.99	2.83	3.08	2.07	1.75	2.16	2.31
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	<0.06	0.0269 J	0.119	0.142	0.0871 J	0.0748 J	0.0836 J	0.0656
pH_Field	SU	5.27	5.15	5.22	4.83	5.26	5.14	7.1	6.84	6.38	5.51	5.99	5.98
Sulfate	mg/L	7.67	6.86	6.73	6.49	7.13	7.47	12.3	13	10.1	8.6	8.72	8.55
TDS	mg/L	32.7	43.3	39.3	28	46	42.7	124	107	74	54	57.3	60.7
<b>Appendix IV</b>													
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	<6.8e-005	<6.8e-005	<8.1e-005	<8.1e-005	<0.000112	<0.000112	0.000518	0.000394	0.000246	0.000353	0.000278	0.000237
Barium	mg/L	0.0372	0.0379	0.0338	0.04	0.042	0.0411	0.0484	0.0383	0.0411	0.0413	0.0436	0.0438
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000694 J	0.00065 J	0.00111	0.000421 J	<0.000203	0.000237 J	0.000965 J	0.000573 J	0.000654 J	0.000587 J	0.000502 J	0.00051 J
Cobalt	mg/L	0.00108	0.00077	0.000701	0.00073	0.000603	0.000581	0.000587	0.000498	0.00037	0.000471	0.000335	0.000375
Combined Radium 226 + 228	pCi/L	0.765 U	0.612 U	0.932 U	0.583 U	0.565 U	0.548 U	0.564 U	0.404 U	0.201 U	0.572 U	1.01 U	0.392 U
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	<0.06	0.0269 J	0.119	0.142	0.0871 J	0.0748 J	0.0836 J	0.0656
Lead	mg/L	0.000121 J	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000224	<6.8e-005	<6.8e-005	8e-005 J	0.000122 J	8.49e-005 J
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	9.82e-005 J	<6.8e-005	<0.000102	<0.000102	<0.005075	<0.005075	0.00245	0.00151	0.000524	0.000323	<0.005075	<0.005075
Selenium	mg/L	0.00135	0.00115	0.00122	0.00118	0.00114	0.000926 J	0.000905 J	0.000578 J	0.000711 J	0.000631 J	0.000605 J	0.000594 J
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-62HO		GC-AP-MW-62HO				GC-AP-MW-63HO					
		06/29/2021	08/17/2021	03/23/2022	10/04/2022	05/22/2023	10/23/2023	06/29/2021	08/17/2021	03/23/2022	10/04/2022	05/22/2023	10/23/2023
<b>Appendix III</b>													
Boron	mg/L	<0.03	<0.03	0.0339 J	<0.03	<0.03	<0.03	0.0343 J	<0.03	0.0339 J	0.036 J	0.0326 J	<0.03
Calcium	mg/L	33.5	20.3	8.23	9.58	9.84	8.86	9.43	8.92	6.43	7.09	8.28	7.04
Chloride	mg/L	3.4	3.28	3.19	2.99	2.05	2.16	2.92	3.37	2.42	2.58	2.59	2.46
Fluoride	mg/L	0.0632 J	0.0716 J	<0.06	<0.06	0.0868 J	0.0287 J	<0.06	<0.06	<0.06	<0.06	<0.06	<0.02
pH_Field	SU	7.04	6.33	5.82	5.82	5.81	5.72	5.69	5.58	5.34	5.38	5.05	5.47
Sulfate	mg/L	16.4	14.9	15.9	14.9	13.4	14.1	20.6	22.7	18.5	19.5	21.2	19
TDS	mg/L	101	59.3	44.7	42	50.7	56.7	49.3	53.3	41.3	48	46	50.7
<b>Appendix IV</b>													
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071
Arsenic	mg/L	0.000301	0.000263	0.000113 J	0.000145 J	0.000284	<0.000112	0.000106 J	0.000119 J	<8.1e-005	0.000133 J	<0.000112	<0.000112
Barium	mg/L	0.0553	0.0727	0.0807	0.0737	0.0767	0.0637	0.0594	0.0597	0.0498	0.0548	0.0524	0.0493
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	7.13e-005 J	<6.8e-005	7.46e-005 J	<6.8e-005	0.000109 J	0.000119 J	0.000104 J	8.38e-005 J	7.77e-005 J	7.41e-005 J
Chromium	mg/L	0.00062 J	0.000673 J	0.000723 J	0.000435 J	0.000466 J	<0.000203	0.000352 J	0.000353 J	0.000448 J	0.000384 J	<0.000203	<0.000203
Cobalt	mg/L	0.000376	0.000335	0.00038	0.000286	0.000552	0.000186 J	0.000907	0.000809	0.000314	0.000312	0.000174 J	0.000112 J
Combined Radium 226 + 228	pCi/L	0.648 U	0.437 U	0.829 U	1.03	1.06 U	0.834 U	0.307 U	0.219 U	0.207 U	0.862 U	0.568 U	0.693 U
Fluoride	mg/L	0.0632 J	0.0716 J	<0.06	<0.06	0.0868 J	0.0287 J	<0.06	<0.06	<0.06	<0.06	<0.06	<0.02
Lead	mg/L	0.000152 J	0.000109 J	0.000159 J	8.32e-005 J	0.000234	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.000134 J	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00136	0.000551	0.000126 J	0.000145 J	<0.005075	<0.005075	0.000232	7.12e-005 J	<0.000102	<0.000102	<0.005075	<0.005075
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.



**ANALYTICAL DATA SUMMARY**  
**Ash Pond (02/16/2016 - 11/01/2023)**  
**APC Plant Greene County**  
**Greene County Alabama**

Analyte	Units	GC-AP-MW-64HO		GC-AP-MW-64HO				GC-AP-PZ-19
		06/29/2021	08/17/2021	03/23/2022	10/04/2022	05/17/2023	10/18/2023	09/12/2018
<b>Appendix III</b>								
Boron	mg/L	0.527	0.571	0.567	0.419	0.464	0.439	--
Calcium	mg/L	51.5	54.6	63.2	69.8	65.1	60.6	155
Chloride	mg/L	8.53	10.9	16.1	9.86	9.97	9.29	24
Fluoride	mg/L	0.238	0.225	0.251	0.211	0.253	0.2	--
pH_Field	SU	6.97	7.03	6.92	6.87	6.86	7	6.6
Sulfate	mg/L	110	128	156	141	130	115	160
TDS	mg/L	278	318	373	320	318	312	538
<b>Appendix IV</b>								
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.00071	<0.00071	--
Arsenic	mg/L	0.000649	0.00051	0.0003	0.000309	0.000335	0.000314	--
Barium	mg/L	0.0778	0.0762	0.094	0.0681	0.0753	0.0767	--
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	<0.000406	--
Cadmium	mg/L	<6.8e-005	<6.8e-005	0.000131 J	0.000167 J	0.000154 J	0.000119 J	--
Chromium	mg/L	0.000807 J	0.000856 J	0.000614 J	0.000348 J	0.00046 J	<0.000203	--
Cobalt	mg/L	0.00376	0.00348	0.00419	0.0031	0.00301	0.00337	--
Combined Radium 226 + 228	pCi/L	0.87 U	0.56 U	1.03	0.702 U	0.541 U	1.18 U	--
Fluoride	mg/L	0.238	0.225	0.251	0.211	0.253	0.2	--
Lead	mg/L	0.000281	0.000224	0.000157 J	0.000102 J	8.23e-005 J	<6.8e-005	--
Lithium	mg/L	0.128	0.142	0.159	0.161	0.156	0.169	--
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	--
Molybdenum	mg/L	0.0675	0.0676	0.0639	0.0678	0.072	0.0724	--
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	<0.000508	--
Thallium	mg/L	<6.8e-005	8.38e-005 J	9.41e-005 J	<6.8e-005	<6.8e-005	9.89e-005 J	--

**Notes:**

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the PQL.

# Appendix B



## Appendix B. Historical Groundwater Elevations Summary

Plant Greene County Ash Pond  
02/16/2016 - 10/17/2023

Well	Hydraulic Location	Geologic Unit											
			02/16/16	04/12/16	05/31/16	08/15/16	10/10/16	10/31/16	11/28/16	01/03/17	01/23/17	03/13/17	05/08/17
GC-AP-MW-23	Upgradient	Unit 2: Poorly Graded Sands with Gravel	87.99	88.81	88.78	88.02	87.62	87.46	NM	NM	87.48	88.03	88.06
GC-AP-MW-24	Upgradient	Unit 2: Poorly Graded Sands with Gravel	87.17	87.96	88.13	87.48	87.16	87.00	NM	NM	86.72	87.20	87.40
GC-AP-MW-26	Upgradient	Unit 2: Poorly Graded Sands with Gravel	--	--	--	79.33	78.11	77.63	77.13	77.29	79.11	83.39	82.98
GC-AP-MW-27	Upgradient	Unit 2: Poorly Graded Sands with Gravel	--	--	--	79.32	78.14	77.69	77.17	77.36	78.77	82.00	82.57
GC-AP-MW-28	Upgradient	Unit 2: Poorly Graded Sands with Gravel	--	--	--	78.56	77.58	77.19	76.79	77.19	78.81	81.04	81.38
GC-AP-MW-29	Upgradient	Unit 2: Poorly Graded Sands with Gravel	--	--	--	79.41	78.29	77.84	77.26	77.26	78.64	82.08	82.74
GC-AP-MW-30	Upgradient	Unit 2: Poorly Graded Sands with Gravel	--	--	--	78.51	77.50	77.05	76.57	77.29	79.79	81.90	81.61
GC-AP-MW-1	Downgradient	Unit 2: Poorly Graded Sands with Gravel	91.81	92.47	91.92	91.43	90.98	90.77	NM	NM	91.09	91.32	91.24
GC-AP-MW-2	Downgradient	Unit 2: Poorly Graded Sands with Gravel	100.84	100.97	100.06	100.03	99.55	99.39	NM	NM	100.49	100.17	99.71
GC-AP-MW-3	Downgradient	Unit 2: Poorly Graded Sands with Gravel	100.39	100.54	99.43	99.42	99.04	98.97	NM	NM	100.16	99.86	99.33
GC-AP-MW-5	Downgradient	Unit 2: Poorly Graded Sands with Gravel	100.50	101.00	98.34	98.33	97.20	96.81	NM	NM	100.72	100.45	98.91
GC-AP-MW-6	Downgradient	Unit 2: Poorly Graded Sands with Gravel	98.75	98.83	97.34	97.48	95.35	94.59	NM	NM	98.43	98.13	97.03
GC-AP-MW-7	Downgradient	Unit 2: Poorly Graded Sands with Gravel	92.13	92.52	90.51	90.11	87.25	86.30	NM	NM	91.65	91.61	90.36
GC-AP-MW-8	Downgradient	Unit 2: Poorly Graded Sands with Gravel	90.78	91.21	89.17	88.80	85.87	84.91	NM	NM	90.14	89.99	88.74
GC-AP-MW-9	Downgradient	Unit 2: Poorly Graded Sands with Gravel	89.62	89.95	88.10	87.73	84.81	83.80	NM	NM	89.25	89.05	87.53
GC-AP-MW-10	Downgradient	Unit 2: Poorly Graded Sands with Gravel	84.14	84.26	83.15	83.77	82.18	81.66	NM	NM	83.31	83.22	82.56
GC-AP-MW-11	Downgradient	Unit 2: Poorly Graded Sands with Gravel	86.33	86.54	85.73	85.48	84.26	83.88	NM	NM	84.86	84.62	84.21
GC-AP-MW-12	Downgradient	Unit 2: Poorly Graded Sands with Gravel	87.52	87.73	86.72	87.01	85.21	84.95	NM	NM	85.50	85.35	85.23
GC-AP-MW-13	Downgradient	Unit 2: Poorly Graded Sands with Gravel	83.32	83.59	82.03	82.27	80.55	80.09	NM	NM	80.62	81.20	80.89



## Appendix B. Historical Groundwater Elevations Summary

Plant Greene County Ash Pond  
02/16/2016 - 10/17/2023

GC-AP-MW-14	Downgradient	Unit 2: Poorly Graded Sands with Gravel	81.59	81.84	78.32	78.67	76.89	76.18	NM	NM	81.37	80.21	77.45
GC-AP-MW-15	Downgradient	Unit 2: Poorly Graded Sands with Gravel	77.92	78.28	74.63	74.73	74.03	73.82	NM	NM	78.62	78.12	74.99
GC-AP-MW-16	Downgradient	Unit 2: Poorly Graded Sands with Gravel	78.47	78.30	74.93	74.77	74.24	74.63	NM	NM	78.16	78.30	75.40
GC-AP-MW-17	Downgradient	Unit 2: Poorly Graded Sands with Gravel	80.17	80.22	76.09	75.95	75.25	75.08	NM	NM	79.77	79.52	76.48
GC-AP-MW-18	Downgradient	Unit 2: Poorly Graded Sands with Gravel	79.08	79.41	75.40	75.50	74.85	74.73	NM	NM	79.61	79.15	75.98
GC-AP-MW-21	Downgradient	Unit 2: Poorly Graded Sands with Gravel	87.92	88.06	87.09	87.55	85.57	85.32	NM	NM	86.05	85.72	85.52
GC-AP-MW-25	Downgradient	Unit 2: Poorly Graded Sands with Gravel	101.22	101.13	99.35	99.89	98.32	97.63	NM	NM	100.50	100.26	99.19
GC-AP-MW-31	Downgradient	Unit 2: Poorly Graded Sands with Gravel	--	--	--	83.50	82.25	75.71	81.55	82.58	84.54	87.14	86.37
GC-AP-MW-32	Downgradient	Unit 2: Poorly Graded Sands with Gravel	--	--	--	88.05	87.58	84.06	87.16	87.00	86.99	87.45	87.67
GC-AP-MW-33	Downgradient	Unit 2: Poorly Graded Sands with Gravel	--	--	--	88.16	87.49	96.65	86.89	86.70	87.10	87.75	88.91
GC-AP-PZ-4	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	94.65	95.31	93.22	92.73	91.95	91.70	NM	NM	94.22	94.61	93.62
GC-AP-MW-34HA	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-35H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-36H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-37H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-38H	Horizontal Delineation	Fill/Unit 1 Transition	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-39H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-40H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-41H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-42H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-43H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--





## Appendix B. Historical Groundwater Elevations Summary

Plant Greene County Ash Pond  
02/16/2016 - 10/17/2023

GC-AP-MW-44H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-45H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-46HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-47HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-48H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-49H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-50HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-52HO	Horizontal Delineation	Unit 1/Unit 2 Transition	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-53H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-54H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-55HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-57H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-59HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-60HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-61HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-62HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-63HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-64HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-PZ-19	Piezometer	Unit 2: Poorly Graded Sands with Gravel	78.02	78.07	75.30	75.38	74.92	74.79	NM	NM	78.12	78.40	75.82
GC-AP-PZ-22	Piezometer	Unit 2: Poorly Graded Sands with Gravel	NM	NM	NM	NM	NM	NM	NM	NM	NM	88.54	NM



## Appendix B. Historical Groundwater Elevations Summary

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Well	Hydraulic Location	Geologic Unit	Measure Date										
			06/27/17	08/28/17	02/26/18	06/04/18	09/10/18	11/05/18	03/25/19	09/09/19	12/17/19	02/17/20	04/20/20
GC-AP-MW-23	Upgradient	Unit 2: Poorly Graded Sands with Gravel	88.48	88.36	88.17	88.69	87.82	87.43	89.65	88.50	NM	89.42	89.99
GC-AP-MW-24	Upgradient	Unit 2: Poorly Graded Sands with Gravel	87.51	87.84	87.26	86.30	87.36	86.85	89.07	88.00	NM	88.68	89.58
GC-AP-MW-26	Upgradient	Unit 2: Poorly Graded Sands with Gravel	85.34	81.37	85.93	83.80	79.79	79.10	84.20	79.84	NM	NM	86.10
GC-AP-MW-27	Upgradient	Unit 2: Poorly Graded Sands with Gravel	84.58	81.18	84.24	83.20	79.66	78.88	83.62	79.57	NM	NM	84.59
GC-AP-MW-28	Upgradient	Unit 2: Poorly Graded Sands with Gravel	84.26	80.27	83.08	81.98	78.86	78.16	82.64	78.79	NM	NM	84.01
GC-AP-MW-29	Upgradient	Unit 2: Poorly Graded Sands with Gravel	85.30	81.37	85.37	83.47	79.75	79.02	83.82	79.84	NM	NM	85.75
GC-AP-MW-30	Upgradient	Unit 2: Poorly Graded Sands with Gravel	83.91	80.45	83.32	82.12	79.28	78.37	82.28	79.87	NM	NM	83.58
GC-AP-MW-1	Downgradient	Unit 2: Poorly Graded Sands with Gravel	91.86	91.41	91.06	91.37	90.53	90.10	91.56	90.75	NM	91.44	92.01
GC-AP-MW-2	Downgradient	Unit 2: Poorly Graded Sands with Gravel	100.09	99.06	99.87	99.38	98.99	98.92	99.76	97.75	NM	99.15	99.01
GC-AP-MW-3	Downgradient	Unit 2: Poorly Graded Sands with Gravel	99.58	98.57	100.04	99.11	98.65	98.79	99.28	97.72	NM	98.82	98.80
GC-AP-MW-5	Downgradient	Unit 2: Poorly Graded Sands with Gravel	99.81	96.94	100.90	99.34	97.23	96.04	99.25	96.21	NM	99.10	98.25
GC-AP-MW-6	Downgradient	Unit 2: Poorly Graded Sands with Gravel	97.80	95.18	98.36	97.47	96.16	95.64	97.17	95.55	NM	97.70	96.95
GC-AP-MW-7	Downgradient	Unit 2: Poorly Graded Sands with Gravel	91.35	87.80	92.01	91.06	88.19	87.68	90.76	89.01	NM	91.40	90.46
GC-AP-MW-8	Downgradient	Unit 2: Poorly Graded Sands with Gravel	89.64	86.46	90.57	89.37	86.93	86.36	89.00	87.63	NM	90.14	89.00
GC-AP-MW-9	Downgradient	Unit 2: Poorly Graded Sands with Gravel	88.71	85.12	89.73	88.37	85.55	85.21	88.09	86.31	NM	89.29	87.57
GC-AP-MW-10	Downgradient	Unit 2: Poorly Graded Sands with Gravel	83.83	81.57	83.61	82.97	83.10	83.08	82.84	81.15	NM	NM	83.99
GC-AP-MW-11	Downgradient	Unit 2: Poorly Graded Sands with Gravel	85.22	83.72	84.93	84.83	84.39	84.05	84.97	82.30	NM	88.74	85.33
GC-AP-MW-12	Downgradient	Unit 2: Poorly Graded Sands with Gravel	85.82	85.16	85.69	85.52	85.27	85.03	84.95	81.26	NM	88.97	85.40
GC-AP-MW-13	Downgradient	Unit 2: Poorly Graded Sands with Gravel	84.44	80.82	82.27	81.73	80.62	80.21	81.97	77.77	NM	88.64	83.68



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GC-AP-MW-14	Downgradient	Unit 2: Poorly Graded Sands with Gravel	84.37	76.61	82.24	78.71	77.60	76.88	79.52	75.81	NM	NM	83.81
GC-AP-MW-15	Downgradient	Unit 2: Poorly Graded Sands with Gravel	83.63	74.41	79.92	75.89	75.06	74.74	76.54	74.15	NM	NM	82.89
GC-AP-MW-16	Downgradient	Unit 2: Poorly Graded Sands with Gravel	84.19	74.92	79.89	76.56	75.45	75.16	77.20	74.59	NM	90.16	83.18
GC-AP-MW-17	Downgradient	Unit 2: Poorly Graded Sands with Gravel	84.95	75.92	81.22	77.48	77.44	76.30	78.20	75.54	NM	90.92	84.31
GC-AP-MW-18	Downgradient	Unit 2: Poorly Graded Sands with Gravel	84.48	75.43	80.86	76.74	76.66	75.82	77.29	75.11	NM	90.64	83.94
GC-AP-MW-21	Downgradient	Unit 2: Poorly Graded Sands with Gravel	86.21	85.38	85.92	85.82	85.53	85.30	85.99	81.70	NM	89.01	85.68
GC-AP-MW-25	Downgradient	Unit 2: Poorly Graded Sands with Gravel	101.04	98.71	99.95	99.73	100.00	98.23	99.60	97.13	NM	100.88	99.30
GC-AP-MW-31	Downgradient	Unit 2: Poorly Graded Sands with Gravel	88.84	84.15	89.66	88.09	83.41	82.97	87.99	84.64	NM	90.02	90.34
GC-AP-MW-32	Downgradient	Unit 2: Poorly Graded Sands with Gravel	87.71	87.65	87.29	88.18	87.48	87.20	89.04	88.32	NM	89.21	90.18
GC-AP-MW-33	Downgradient	Unit 2: Poorly Graded Sands with Gravel	88.90	88.64	87.58	88.64	87.31	86.94	89.80	88.44	NM	90.41	90.84
GC-AP-PZ-4	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	94.68	92.48	94.88	94.29	92.09	91.54	94.91	92.39	NM	95.14	94.70
GC-AP-MW-34HA	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	86.90	86.26	NM	86.75	88.38
GC-AP-MW-35H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	82.33	80.56	NM	90.91	84.17
GC-AP-MW-36H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	80.11	78.64	NM	90.80	83.84
GC-AP-MW-37H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	80.09	76.95	NM	90.67	84.94
GC-AP-MW-38H	Horizontal Delineation	Fill/Unit 1 Transition	--	--	--	--	--	--	88.33	86.98	NM	90.50	87.48
GC-AP-MW-39H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	76.47	74.41	NM	89.99	82.94
GC-AP-MW-40H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	75.62	74.08	NM	NM	82.77
GC-AP-MW-41H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	76.12	74.09	NM	NM	82.94
GC-AP-MW-42H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	82.61	81.15	NM	NM	84.01
GC-AP-MW-43H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	87.45	85.86	NM	NM	87.17



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GC-AP-MW-44H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	96.91	93.79	NM	97.19	97.30
GC-AP-MW-45H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	77.34	89.46	82.62
GC-AP-MW-46HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-47HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-48H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	81.86	NM	86.55
GC-AP-MW-49H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	82.68	89.22	85.33
GC-AP-MW-50HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-52HO	Horizontal Delineation	Unit 1/Unit 2 Transition	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-53H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	96.52	97.40	97.04
GC-AP-MW-54H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	95.54	97.71	97.48
GC-AP-MW-55HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-57H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	95.03	96.97	97.08
GC-AP-MW-59HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-60HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-61HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-62HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-63HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-MW-64HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	--	--	--	--	--	--	--
GC-AP-PZ-19	Piezometer	Unit 2: Poorly Graded Sands with Gravel	88.17	75.44	79.79	76.81	75.88	84.49	77.19	75.26	NM	90.15	83.09
GC-AP-PZ-22	Piezometer	Unit 2: Poorly Graded Sands with Gravel	NM	NM	NM	NM	NM	NM	NM	NM	NM	90.24	90.29



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Well	Hydraulic Location	Geologic Unit											
			05/28/20	06/30/20	08/10/20	03/08/21	06/28/21	08/16/21	03/22/22	10/03/22	05/15/23	10/12/23	10/17/23
GC-AP-MW-23	Upgradient	Unit 2: Poorly Graded Sands with Gravel	89.78	89.51	89.04	88.44	89.16	88.66	87.78	87.38	88.16	87.42	87.42
GC-AP-MW-24	Upgradient	Unit 2: Poorly Graded Sands with Gravel	89.29	89.09	88.65	87.73	88.47	88.14	87.10	87.02	87.51	86.87	86.87
GC-AP-MW-26	Upgradient	Unit 2: Poorly Graded Sands with Gravel	85.13	82.09	80.80	83.78	83.16	82.59	84.21	79.89	82.29	79.59	79.59
GC-AP-MW-27	Upgradient	Unit 2: Poorly Graded Sands with Gravel	83.55	81.91	80.57	83.09	82.86	82.25	83.43	79.55	82.03	79.38	79.38
GC-AP-MW-28	Upgradient	Unit 2: Poorly Graded Sands with Gravel	82.56	80.75	79.54	81.71	81.80	80.77	82.38	78.61	80.98	78.52	78.52
GC-AP-MW-29	Upgradient	Unit 2: Poorly Graded Sands with Gravel	84.42	81.95	80.77	83.29	82.91	82.18	83.72	79.84	82.12	79.61	79.61
GC-AP-MW-30	Upgradient	Unit 2: Poorly Graded Sands with Gravel	82.76	81.14	80.14	82.11	82.08	81.20	82.67	79.32	81.74	78.94	78.94
GC-AP-MW-1	Downgradient	Unit 2: Poorly Graded Sands with Gravel	91.76	90.85	91.15	89.44	90.35	90.01	88.95	88.89	89.35	88.64	88.64
GC-AP-MW-2	Downgradient	Unit 2: Poorly Graded Sands with Gravel	98.35	97.40	94.66	92.74	93.33	92.69	92.32	91.89	92.67	91.54	91.54
GC-AP-MW-3	Downgradient	Unit 2: Poorly Graded Sands with Gravel	98.14	97.13	94.16	92.78	93.43	92.80	92.39	92.05	92.68	91.77	91.77
GC-AP-MW-5	Downgradient	Unit 2: Poorly Graded Sands with Gravel	96.78	96.27	93.68	94.31	94.24	93.04	93.40	91.14	92.94	90.77	90.77
GC-AP-MW-6	Downgradient	Unit 2: Poorly Graded Sands with Gravel	96.24	95.41	90.37	91.63	91.16	90.31	90.84	85.87	89.04	84.34	84.34
GC-AP-MW-7	Downgradient	Unit 2: Poorly Graded Sands with Gravel	88.94	87.77	86.56	87.95	87.54	86.54	86.65	83.02	85.98	83.16	83.16
GC-AP-MW-8	Downgradient	Unit 2: Poorly Graded Sands with Gravel	87.59	86.47	85.64	86.61	86.14	85.13	85.03	82.08	85.16	82.72	82.72
GC-AP-MW-9	Downgradient	Unit 2: Poorly Graded Sands with Gravel	86.10	84.98	83.71	85.01	84.51	83.43	83.98	80.51	83.68	80.27	80.27
GC-AP-MW-10	Downgradient	Unit 2: Poorly Graded Sands with Gravel	83.19	81.90	80.62	82.54	82.04	80.78	81.93	78.84	79.57	77.37	77.37
GC-AP-MW-11	Downgradient	Unit 2: Poorly Graded Sands with Gravel	84.13	82.94	82.13	83.43	83.33	82.01	83.02	80.42	81.82	79.52	79.52
GC-AP-MW-12	Downgradient	Unit 2: Poorly Graded Sands with Gravel	81.87	81.05	81.21	82.96	81.85	81.26	81.54	78.84	81.28	78.72	78.72
GC-AP-MW-13	Downgradient	Unit 2: Poorly Graded Sands with Gravel	78.31	DRY	76.97	80.98	80.67	77.67	80.64	75.79	77.77	75.28	75.28



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GC-AP-MW-14	Downgradient	Unit 2: Poorly Graded Sands with Gravel	77.88	76.55	75.28	78.61	79.30	76.57	81.33	75.17	76.29	74.43	74.43
GC-AP-MW-15	Downgradient	Unit 2: Poorly Graded Sands with Gravel	76.01	75.26	74.10	77.17	77.25	75.49	80.10	73.93	75.04	73.71	73.71
GC-AP-MW-16	Downgradient	Unit 2: Poorly Graded Sands with Gravel	76.41	75.74	74.59	77.49	77.62	75.77	80.22	74.20	75.37	73.83	73.83
GC-AP-MW-17	Downgradient	Unit 2: Poorly Graded Sands with Gravel	77.73	76.77	75.54	77.95	77.99	76.91	80.61	74.72	75.72	74.34	74.34
GC-AP-MW-18	Downgradient	Unit 2: Poorly Graded Sands with Gravel	77.19	75.48	75.08	77.58	77.48	76.56	80.46	74.59	75.62	74.31	74.31
GC-AP-MW-21	Downgradient	Unit 2: Poorly Graded Sands with Gravel	82.42	81.66	81.08	83.27	82.16	81.56	81.96	79.62	81.40	79.36	79.36
GC-AP-MW-25	Downgradient	Unit 2: Poorly Graded Sands with Gravel	97.88	97.12	96.38	92.08	92.81	91.67	91.18	89.42	89.88	88.53	88.53
GC-AP-MW-31	Downgradient	Unit 2: Poorly Graded Sands with Gravel	86.81	86.02	84.56	87.86	87.11	85.59	87.38	83.17	87.09	83.47	83.47
GC-AP-MW-32	Downgradient	Unit 2: Poorly Graded Sands with Gravel	90.05	89.41	89.27	88.67	89.41	86.09	88.53	87.88	88.43	87.64	87.64
GC-AP-MW-33	Downgradient	Unit 2: Poorly Graded Sands with Gravel	90.45	89.93	89.40	89.07	89.80	92.12	88.55	87.61	88.64	87.47	87.47
GC-AP-PZ-4	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	93.63	92.55	91.74	91.58	92.25	91.37	90.83	89.91	90.92	89.62	89.62
GC-AP-MW-34HA	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	88.32	87.92	87.41	85.89	87.03	86.63	85.76	85.41	85.67	84.92	84.92
GC-AP-MW-35H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	81.38	DRY	80.70	81.10	82.05	80.68	82.13	80.20	80.68	80.23	80.23
GC-AP-MW-36H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	79.42	79.08	78.81	80.82	80.74	79.12	81.71	78.36	79.16	78.66	78.66
GC-AP-MW-37H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	79.91	79.32	77.07	80.28	82.63	80.96	83.38	82.04	83.62	83.02	83.02
GC-AP-MW-38H	Horizontal Delineation	Fill/Unit 1 Transition	87.26	87.60	86.84	87.14	87.39	86.79	86.98	86.48	86.78	86.27	86.27
GC-AP-MW-39H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	76.08	75.43	74.29	77.02	77.11	75.56	80.02	74.03	75.11	73.80	73.80
GC-AP-MW-40H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	75.90	75.17	74.00	77.09	77.16	75.40	80.02	73.84	75.05	73.63	73.63
GC-AP-MW-41H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	76.10	74.11	73.98	76.61	76.33	75.77	79.84	74.10	75.07	73.85	73.85
GC-AP-MW-42H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	83.03	82.00	80.78	82.45	82.07	80.92	82.18	79.26	79.53	77.95	77.95
GC-AP-MW-43H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	85.86	84.60	83.50	84.90	84.37	83.32	83.98	80.55	83.78	80.14	80.14



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GC-AP-MW-44H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	96.63	94.17	92.70	94.32	93.79	92.38	93.94	90.61	91.80	90.04	90.04
GC-AP-MW-45H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	75.87	75.33	74.32	82.64	77.73	75.53	80.14	74.08	75.31	73.91	73.91
GC-AP-MW-46HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	75.48	74.76	78.16	78.24	75.56	77.96	73.55	75.84	73.34	73.34
GC-AP-MW-47HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	80.54	78.71	77.48	78.56	79.22	77.78	77.92	75.50	78.22	75.59	75.59
GC-AP-MW-48H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	84.11	82.43	81.35	82.32	82.65	81.45	81.50	79.36	81.76	79.33	79.33
GC-AP-MW-49H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	84.08	82.79	82.08	82.83	83.07	81.95	82.32	80.22	82.09	79.79	79.79
GC-AP-MW-50HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	81.98	81.19	80.51	81.50	81.36	80.58	81.56	79.34	80.44	78.49	78.49
GC-AP-MW-52HO	Horizontal Delineation	Unit 1/Unit 2 Transition	--	84.71	83.65	85.36	84.90	83.75	84.57	81.19	83.96	80.96	80.96
GC-AP-MW-53H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	96.29	95.07	93.12	94.25	93.78	92.82	93.70	90.49	92.49	89.80	89.80
GC-AP-MW-54H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	96.31	95.01	93.20	94.54	93.96	92.75	93.68	90.76	92.55	90.33	90.33
GC-AP-MW-55HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	84.31	83.58	83.03	82.76	81.31	82.69	83.45	81.51	82.07	81.15	81.15
GC-AP-MW-57H	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	96.02	92.50	92.91	94.23	93.74	92.63	93.79	90.60	92.36	90.12	90.12
GC-AP-MW-59HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	93.61	93.05	92.36	91.87	92.47	91.86	91.36	90.08	90.11	89.56	89.56
GC-AP-MW-60HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	88.31	88.05	86.89	86.69	86.86	86.25	86.25
GC-AP-MW-61HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	91.40	90.93	89.35	89.13	89.76	88.75	88.75
GC-AP-MW-62HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	83.31	81.39	81.77	79.59	82.31	79.86	79.86
GC-AP-MW-63HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	83.33	81.74	81.49	79.30	82.23	79.64	79.64
GC-AP-MW-64HO	Horizontal Delineation	Unit 2: Poorly Graded Sands with Gravel	--	--	--	--	78.44	76.10	80.43	74.57	76.02	74.44	74.44
GC-AP-PZ-19	Piezometer	Unit 2: Poorly Graded Sands with Gravel	76.51	DRY	75.22	77.76	77.82	76.10	80.60	74.82	75.69	74.51	74.51
GC-AP-PZ-22	Piezometer	Unit 2: Poorly Graded Sands with Gravel	90.31	DRY	88.92	DRY	DRY	88.66	DRY	DRY	DRY	DRY	DRY

# Appendix C



Alabama Power General Test Laboratory  
744 County Road 87, GSC#8  
Calera, AL 35040  
(205) 664-6032 or 6171  
FAX (205) 257-1654

## ***Field Case Narrative***



# **Greene County Ash Pond**

## **2023 Compliance Event 1**

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Suspected iron bacteria was present during initial pumping of wells MW-13, MW-41H & MW-42H.

The first 2 pH field readings for wells MW-28 and MW-29 were qualified due to pH readings falling outside of the bracketed calibration range. The below qualifier was used:

- E – Estimated reported value exceeded calibration range

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

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Calera, AL 35040  
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## ***Field Case Narrative***



# **Greene County Ash Pond**

## **2023 Land Trust Event 1**

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

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Calera, AL 35040  
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## ***Field Case Narrative***



# **Greene County Ash Pond**

## **2023 Sewell Off-Site Wells Event 1**

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

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Calera, AL 35040  
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## ***Field Case Narrative***



# **Greene County Ash Pond**

## **2023 Strong Event 1**

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Rain was present when pumping and sampling well MW-46HO.

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.





**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-1	COND	Conductivity	5/16/2023 7:56	1048.85	uS/cm
GC-AP-MW-1	DO	DO	5/16/2023 7:56	1.22	mg/L
GC-AP-MW-1	DTW	Depth to Water Detail	5/16/2023 7:56	18.47	ft
GC-AP-MW-1	ORP	Oxidation Reduction Potention	5/16/2023 7:56	11.01	mv
GC-AP-MW-1	PH	pH	5/16/2023 7:56	5.44	SU
GC-AP-MW-1	TEMP	Temperature	5/16/2023 7:56	20.13	C
GC-AP-MW-1	TURB	Turbidity	5/16/2023 7:56	7.04	NTU
GC-AP-MW-1	COND	Conductivity	5/16/2023 8:01	1110.86	uS/cm
GC-AP-MW-1	DO	DO	5/16/2023 8:01	0.96	mg/L
GC-AP-MW-1	DTW	Depth to Water Detail	5/16/2023 8:01	18.47	ft
GC-AP-MW-1	ORP	Oxidation Reduction Potention	5/16/2023 8:01	18.63	mv
GC-AP-MW-1	PH	pH	5/16/2023 8:01	5.4	SU
GC-AP-MW-1	TEMP	Temperature	5/16/2023 8:01	20.24	C
GC-AP-MW-1	TURB	Turbidity	5/16/2023 8:01	5.17	NTU
GC-AP-MW-1	COND	Conductivity	5/16/2023 8:06	1131.16	uS/cm
GC-AP-MW-1	DO	DO	5/16/2023 8:06	0.86	mg/L
GC-AP-MW-1	DTW	Depth to Water Detail	5/16/2023 8:06	18.47	ft
GC-AP-MW-1	ORP	Oxidation Reduction Potention	5/16/2023 8:06	20.55	mv
GC-AP-MW-1	PH	pH	5/16/2023 8:06	5.41	SU
GC-AP-MW-1	TEMP	Temperature	5/16/2023 8:06	20.24	C
GC-AP-MW-1	TURB	Turbidity	5/16/2023 8:06	5.1	NTU
GC-AP-MW-1	COND	Conductivity	5/16/2023 8:11	1141.85	uS/cm
GC-AP-MW-1	DO	DO	5/16/2023 8:11	0.81	mg/L
GC-AP-MW-1	DTW	Depth to Water Detail	5/16/2023 8:11	18.47	ft
GC-AP-MW-1	ORP	Oxidation Reduction Potention	5/16/2023 8:11	21.67	mv
GC-AP-MW-1	PH	pH	5/16/2023 8:11	5.43	SU
GC-AP-MW-1	TEMP	Temperature	5/16/2023 8:11	20.37	C
GC-AP-MW-1	TURB	Turbidity	5/16/2023 8:11	5.15	NTU
GC-AP-MW-1	COND	Conductivity	5/16/2023 8:16	1174.11	uS/cm
GC-AP-MW-1	DO	DO	5/16/2023 8:16	0.8	mg/L
GC-AP-MW-1	DTW	Depth to Water Detail	5/16/2023 8:16	18.47	ft
GC-AP-MW-1	ORP	Oxidation Reduction Potention	5/16/2023 8:16	22.09	mv
GC-AP-MW-1	PH	pH	5/16/2023 8:16	5.45	SU
GC-AP-MW-1	SULFIDE	Sulfide	5/16/2023 8:16	0	mg/L
GC-AP-MW-1	TEMP	Temperature	5/16/2023 8:16	20.33	C
GC-AP-MW-1	TURB	Turbidity	5/16/2023 8:16	4.37	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-10	COND	Conductivity	5/24/2023 8:26	759.29	uS/cm
GC-AP-MW-10	DO	DO	5/24/2023 8:26	1.02	mg/L
GC-AP-MW-10	DTW	Depth to Water Detail	5/24/2023 8:26	8.23	ft
GC-AP-MW-10	ORP	Oxidation Reduction Potention	5/24/2023 8:26	-79.15	mv
GC-AP-MW-10	PH	pH	5/24/2023 8:26	6.62	SU
GC-AP-MW-10	TEMP	Temperature	5/24/2023 8:26	19.54	C
GC-AP-MW-10	TURB	Turbidity	5/24/2023 8:26	13.4	NTU
GC-AP-MW-10	COND	Conductivity	5/24/2023 8:31	753.66	uS/cm
GC-AP-MW-10	DO	DO	5/24/2023 8:31	0.81	mg/L
GC-AP-MW-10	DTW	Depth to Water Detail	5/24/2023 8:31	8.23	ft
GC-AP-MW-10	ORP	Oxidation Reduction Potention	5/24/2023 8:31	-76.39	mv
GC-AP-MW-10	PH	pH	5/24/2023 8:31	6.61	SU
GC-AP-MW-10	TEMP	Temperature	5/24/2023 8:31	19.57	C
GC-AP-MW-10	TURB	Turbidity	5/24/2023 8:31	9.86	NTU
GC-AP-MW-10	COND	Conductivity	5/24/2023 8:36	749.03	uS/cm
GC-AP-MW-10	DO	DO	5/24/2023 8:36	0.72	mg/L
GC-AP-MW-10	DTW	Depth to Water Detail	5/24/2023 8:36	8.23	ft
GC-AP-MW-10	ORP	Oxidation Reduction Potention	5/24/2023 8:36	-74.98	mv
GC-AP-MW-10	PH	pH	5/24/2023 8:36	6.6	SU
GC-AP-MW-10	TEMP	Temperature	5/24/2023 8:36	19.6	C
GC-AP-MW-10	TURB	Turbidity	5/24/2023 8:36	6.02	NTU
GC-AP-MW-10	COND	Conductivity	5/24/2023 8:41	750.03	uS/cm
GC-AP-MW-10	DO	DO	5/24/2023 8:41	0.65	mg/L
GC-AP-MW-10	DTW	Depth to Water Detail	5/24/2023 8:41	8.23	ft
GC-AP-MW-10	ORP	Oxidation Reduction Potention	5/24/2023 8:41	-73.57	mv
GC-AP-MW-10	PH	pH	5/24/2023 8:41	6.59	SU
GC-AP-MW-10	SULFIDE	Sulfide	5/24/2023 8:41	0	mg/L
GC-AP-MW-10	TEMP	Temperature	5/24/2023 8:41	19.62	C
GC-AP-MW-10	TURB	Turbidity	5/24/2023 8:41	3.38	NTU



**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-11	COND	Conductivity	5/17/2023 13:17	532.51	uS/cm
GC-AP-MW-11	DO	DO	5/17/2023 13:17	1.09	mg/L
GC-AP-MW-11	DTW	Depth to Water Detail	5/17/2023 13:17	19.37	ft
GC-AP-MW-11	ORP	Oxidation Reduction Potention	5/17/2023 13:17	15.21	mv
GC-AP-MW-11	PH	pH	5/17/2023 13:17	6.31	SU
GC-AP-MW-11	TEMP	Temperature	5/17/2023 13:17	21.34	C
GC-AP-MW-11	TURB	Turbidity	5/17/2023 13:17	2.45	NTU
GC-AP-MW-11	COND	Conductivity	5/17/2023 13:22	529.95	uS/cm
GC-AP-MW-11	DO	DO	5/17/2023 13:22	0.84	mg/L
GC-AP-MW-11	DTW	Depth to Water Detail	5/17/2023 13:22	19.37	ft
GC-AP-MW-11	ORP	Oxidation Reduction Potention	5/17/2023 13:22	12.9	mv
GC-AP-MW-11	PH	pH	5/17/2023 13:22	6.24	SU
GC-AP-MW-11	TEMP	Temperature	5/17/2023 13:22	21.42	C
GC-AP-MW-11	TURB	Turbidity	5/17/2023 13:22	2.37	NTU
GC-AP-MW-11	COND	Conductivity	5/17/2023 13:27	524.54	uS/cm
GC-AP-MW-11	DO	DO	5/17/2023 13:27	0.84	mg/L
GC-AP-MW-11	DTW	Depth to Water Detail	5/17/2023 13:27	19.37	ft
GC-AP-MW-11	ORP	Oxidation Reduction Potention	5/17/2023 13:27	18.1	mv
GC-AP-MW-11	PH	pH	5/17/2023 13:27	6.22	SU
GC-AP-MW-11	TEMP	Temperature	5/17/2023 13:27	21.47	C
GC-AP-MW-11	TURB	Turbidity	5/17/2023 13:27	2.15	NTU
GC-AP-MW-11	COND	Conductivity	5/17/2023 13:32	524.43	uS/cm
GC-AP-MW-11	DO	DO	5/17/2023 13:32	0.8	mg/L
GC-AP-MW-11	DTW	Depth to Water Detail	5/17/2023 13:32	19.37	ft
GC-AP-MW-11	ORP	Oxidation Reduction Potention	5/17/2023 13:32	13.12	mv
GC-AP-MW-11	PH	pH	5/17/2023 13:32	6.21	SU
GC-AP-MW-11	SULFIDE	Sulfide	5/17/2023 13:32	0	mg/L
GC-AP-MW-11	TEMP	Temperature	5/17/2023 13:32	21.16	C
GC-AP-MW-11	TURB	Turbidity	5/17/2023 13:32	2.11	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-12	COND	Conductivity	5/30/2023 16:02	437.42	uS/cm
GC-AP-MW-12	DO	DO	5/30/2023 16:02	1.25	mg/L
GC-AP-MW-12	DTW	Depth to Water Detail	5/30/2023 16:02	22.19	ft
GC-AP-MW-12	ORP	Oxidation Reduction Potention	5/30/2023 16:02	123.04	mv
GC-AP-MW-12	PH	pH	5/30/2023 16:02	6.95	SU
GC-AP-MW-12	TEMP	Temperature	5/30/2023 16:02	20.92	C
GC-AP-MW-12	TURB	Turbidity	5/30/2023 16:02	1.87	NTU
GC-AP-MW-12	COND	Conductivity	5/30/2023 16:07	433.39	uS/cm
GC-AP-MW-12	DO	DO	5/30/2023 16:07	1.04	mg/L
GC-AP-MW-12	DTW	Depth to Water Detail	5/30/2023 16:07	22.19	ft
GC-AP-MW-12	ORP	Oxidation Reduction Potention	5/30/2023 16:07	125.89	mv
GC-AP-MW-12	PH	pH	5/30/2023 16:07	6.91	SU
GC-AP-MW-12	TEMP	Temperature	5/30/2023 16:07	20.82	C
GC-AP-MW-12	TURB	Turbidity	5/30/2023 16:07	1.91	NTU
GC-AP-MW-12	COND	Conductivity	5/30/2023 16:12	433.91	uS/cm
GC-AP-MW-12	DO	DO	5/30/2023 16:12	0.98	mg/L
GC-AP-MW-12	DTW	Depth to Water Detail	5/30/2023 16:12	22.19	ft
GC-AP-MW-12	ORP	Oxidation Reduction Potention	5/30/2023 16:12	126.9	mv
GC-AP-MW-12	PH	pH	5/30/2023 16:12	6.88	SU
GC-AP-MW-12	TEMP	Temperature	5/30/2023 16:12	20.97	C
GC-AP-MW-12	TURB	Turbidity	5/30/2023 16:12	1.95	NTU
GC-AP-MW-12	COND	Conductivity	5/30/2023 16:17	434.15	uS/cm
GC-AP-MW-12	DO	DO	5/30/2023 16:17	0.93	mg/L
GC-AP-MW-12	DTW	Depth to Water Detail	5/30/2023 16:17	22.19	ft
GC-AP-MW-12	ORP	Oxidation Reduction Potention	5/30/2023 16:17	128.25	mv
GC-AP-MW-12	PH	pH	5/30/2023 16:17	6.87	SU
GC-AP-MW-12	SULFIDE	Sulfide	5/30/2023 16:17	0	mg/L
GC-AP-MW-12	TEMP	Temperature	5/30/2023 16:17	20.91	C
GC-AP-MW-12	TURB	Turbidity	5/30/2023 16:17	1.85	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-13	COND	Conductivity	5/31/2023 8:21	507.63	uS/cm
GC-AP-MW-13	DO	DO	5/31/2023 8:21	2.99	mg/L
GC-AP-MW-13	DTW	Depth to Water Detail	5/31/2023 8:21	24.11	ft
GC-AP-MW-13	ORP	Oxidation Reduction Potention	5/31/2023 8:21	-2.88	mv
GC-AP-MW-13	PH	pH	5/31/2023 8:21	6.36	SU
GC-AP-MW-13	TEMP	Temperature	5/31/2023 8:21	19.94	C
GC-AP-MW-13	TURB	Turbidity	5/31/2023 8:21	23.8	NTU
GC-AP-MW-13	COND	Conductivity	5/31/2023 8:26	487.11	uS/cm
GC-AP-MW-13	DO	DO	5/31/2023 8:26	2.97	mg/L
GC-AP-MW-13	DTW	Depth to Water Detail	5/31/2023 8:26	24.11	ft
GC-AP-MW-13	ORP	Oxidation Reduction Potention	5/31/2023 8:26	-1.17	mv
GC-AP-MW-13	PH	pH	5/31/2023 8:26	6.34	SU
GC-AP-MW-13	TEMP	Temperature	5/31/2023 8:26	20.01	C
GC-AP-MW-13	TURB	Turbidity	5/31/2023 8:26	4.12	NTU
GC-AP-MW-13	COND	Conductivity	5/31/2023 8:31	476.7	uS/cm
GC-AP-MW-13	DO	DO	5/31/2023 8:31	2.73	mg/L
GC-AP-MW-13	DTW	Depth to Water Detail	5/31/2023 8:31	24.11	ft
GC-AP-MW-13	ORP	Oxidation Reduction Potention	5/31/2023 8:31	-6.12	mv
GC-AP-MW-13	PH	pH	5/31/2023 8:31	6.34	SU
GC-AP-MW-13	TEMP	Temperature	5/31/2023 8:31	20.04	C
GC-AP-MW-13	TURB	Turbidity	5/31/2023 8:31	3.42	NTU
GC-AP-MW-13	COND	Conductivity	5/31/2023 8:36	469.84	uS/cm
GC-AP-MW-13	DO	DO	5/31/2023 8:36	2.61	mg/L
GC-AP-MW-13	DTW	Depth to Water Detail	5/31/2023 8:36	24.11	ft
GC-AP-MW-13	ORP	Oxidation Reduction Potention	5/31/2023 8:36	-4.58	mv
GC-AP-MW-13	PH	pH	5/31/2023 8:36	6.36	SU
GC-AP-MW-13	TEMP	Temperature	5/31/2023 8:36	20.1	C
GC-AP-MW-13	TURB	Turbidity	5/31/2023 8:36	3.88	NTU
GC-AP-MW-13	COND	Conductivity	5/31/2023 8:41	469.55	uS/cm
GC-AP-MW-13	DO	DO	5/31/2023 8:41	2.55	mg/L
GC-AP-MW-13	DTW	Depth to Water Detail	5/31/2023 8:41	24.11	ft
GC-AP-MW-13	ORP	Oxidation Reduction Potention	5/31/2023 8:41	-2.64	mv
GC-AP-MW-13	PH	pH	5/31/2023 8:41	6.37	SU
GC-AP-MW-13	SULFIDE	Sulfide	5/31/2023 8:41	0	mg/L
GC-AP-MW-13	TEMP	Temperature	5/31/2023 8:41	20.08	C
GC-AP-MW-13	TURB	Turbidity	5/31/2023 8:41	4.1	NTU

## Field Parameters Summary Greene County Ash Pond

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-14	COND	Conductivity	5/24/2023 9:53	964.39	uS/cm
GC-AP-MW-14	DO	DO	5/24/2023 9:53	1.02	mg/L
GC-AP-MW-14	DTW	Depth to Water Detail	5/24/2023 9:53	9.2	ft
GC-AP-MW-14	ORP	Oxidation Reduction Potention	5/24/2023 9:53	-63.81	mv
GC-AP-MW-14	PH	pH	5/24/2023 9:53	6.44	SU
GC-AP-MW-14	TEMP	Temperature	5/24/2023 9:53	19.6	C
GC-AP-MW-14	TURB	Turbidity	5/24/2023 9:53	7.32	NTU
GC-AP-MW-14	COND	Conductivity	5/24/2023 9:58	970.52	uS/cm
GC-AP-MW-14	DO	DO	5/24/2023 9:58	0.85	mg/L
GC-AP-MW-14	DTW	Depth to Water Detail	5/24/2023 9:58	9.2	ft
GC-AP-MW-14	ORP	Oxidation Reduction Potention	5/24/2023 9:58	-61.64	mv
GC-AP-MW-14	PH	pH	5/24/2023 9:58	6.42	SU
GC-AP-MW-14	TEMP	Temperature	5/24/2023 9:58	19.62	C
GC-AP-MW-14	TURB	Turbidity	5/24/2023 9:58	6.96	NTU
GC-AP-MW-14	COND	Conductivity	5/24/2023 10:03	971.19	uS/cm
GC-AP-MW-14	DO	DO	5/24/2023 10:03	0.75	mg/L
GC-AP-MW-14	DTW	Depth to Water Detail	5/24/2023 10:03	9.2	ft
GC-AP-MW-14	ORP	Oxidation Reduction Potention	5/24/2023 10:03	-61.41	mv
GC-AP-MW-14	PH	pH	5/24/2023 10:03	6.42	SU
GC-AP-MW-14	TEMP	Temperature	5/24/2023 10:03	19.63	C
GC-AP-MW-14	TURB	Turbidity	5/24/2023 10:03	7.7	NTU
GC-AP-MW-14	COND	Conductivity	5/24/2023 10:08	969.12	uS/cm
GC-AP-MW-14	DO	DO	5/24/2023 10:08	0.6	mg/L
GC-AP-MW-14	DTW	Depth to Water Detail	5/24/2023 10:08	9.2	ft
GC-AP-MW-14	ORP	Oxidation Reduction Potention	5/24/2023 10:08	-61.69	mv
GC-AP-MW-14	PH	pH	5/24/2023 10:08	6.42	SU
GC-AP-MW-14	TEMP	Temperature	5/24/2023 10:08	19.72	C
GC-AP-MW-14	TURB	Turbidity	5/24/2023 10:08	7.58	NTU
GC-AP-MW-14	COND	Conductivity	5/24/2023 10:13	968.17	uS/cm
GC-AP-MW-14	DO	DO	5/24/2023 10:13	0.43	mg/L
GC-AP-MW-14	DTW	Depth to Water Detail	5/24/2023 10:13	9.2	ft
GC-AP-MW-14	ORP	Oxidation Reduction Potention	5/24/2023 10:13	-60.12	mv
GC-AP-MW-14	PH	pH	5/24/2023 10:13	6.4	SU
GC-AP-MW-14	SULFIDE	Sulfide	5/24/2023 10:13	0	mg/L
GC-AP-MW-14	TEMP	Temperature	5/24/2023 10:13	19.62	C
GC-AP-MW-14	TURB	Turbidity	5/24/2023 10:13	7.63	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-21	COND	Conductivity	5/30/2023 15:13	291.31	uS/cm
GC-AP-MW-21	DO	DO	5/30/2023 15:13	1.93	mg/L
GC-AP-MW-21	DTW	Depth to Water Detail	5/30/2023 15:13	24.57	ft
GC-AP-MW-21	ORP	Oxidation Reduction Potention	5/30/2023 15:13	223.8	mv
GC-AP-MW-21	PH	pH	5/30/2023 15:13	6.09	SU
GC-AP-MW-21	TEMP	Temperature	5/30/2023 15:13	21.02	C
GC-AP-MW-21	TURB	Turbidity	5/30/2023 15:13	1.59	NTU
GC-AP-MW-21	COND	Conductivity	5/30/2023 15:18	339.94	uS/cm
GC-AP-MW-21	DO	DO	5/30/2023 15:18	1.39	mg/L
GC-AP-MW-21	DTW	Depth to Water Detail	5/30/2023 15:18	24.57	ft
GC-AP-MW-21	ORP	Oxidation Reduction Potention	5/30/2023 15:18	211.6	mv
GC-AP-MW-21	PH	pH	5/30/2023 15:18	6.05	SU
GC-AP-MW-21	TEMP	Temperature	5/30/2023 15:18	21.13	C
GC-AP-MW-21	TURB	Turbidity	5/30/2023 15:18	1.44	NTU
GC-AP-MW-21	COND	Conductivity	5/30/2023 15:23	356.57	uS/cm
GC-AP-MW-21	DO	DO	5/30/2023 15:23	1.26	mg/L
GC-AP-MW-21	DTW	Depth to Water Detail	5/30/2023 15:23	24.57	ft
GC-AP-MW-21	ORP	Oxidation Reduction Potention	5/30/2023 15:23	194.15	mv
GC-AP-MW-21	PH	pH	5/30/2023 15:23	6.04	SU
GC-AP-MW-21	TEMP	Temperature	5/30/2023 15:23	21.08	C
GC-AP-MW-21	TURB	Turbidity	5/30/2023 15:23	1.5	NTU
GC-AP-MW-21	COND	Conductivity	5/30/2023 15:28	362.04	uS/cm
GC-AP-MW-21	DO	DO	5/30/2023 15:28	1.27	mg/L
GC-AP-MW-21	DTW	Depth to Water Detail	5/30/2023 15:28	24.57	ft
GC-AP-MW-21	ORP	Oxidation Reduction Potention	5/30/2023 15:28	175.27	mv
GC-AP-MW-21	PH	pH	5/30/2023 15:28	6.02	SU
GC-AP-MW-21	TEMP	Temperature	5/30/2023 15:28	21.2	C
GC-AP-MW-21	TURB	Turbidity	5/30/2023 15:28	1.24	NTU
GC-AP-MW-21	COND	Conductivity	5/30/2023 15:33	366.65	uS/cm
GC-AP-MW-21	DO	DO	5/30/2023 15:33	1.2	mg/L
GC-AP-MW-21	DTW	Depth to Water Detail	5/30/2023 15:33	24.57	ft
GC-AP-MW-21	ORP	Oxidation Reduction Potention	5/30/2023 15:33	163.25	mv
GC-AP-MW-21	PH	pH	5/30/2023 15:33	6.03	SU
GC-AP-MW-21	SULFIDE	Sulfide	5/30/2023 15:33	0	mg/L
GC-AP-MW-21	TEMP	Temperature	5/30/2023 15:33	21.31	C
GC-AP-MW-21	TURB	Turbidity	5/30/2023 15:33	1.2	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-39H	COND	Conductivity	5/24/2023 11:05	808.58	uS/cm
GC-AP-MW-39H	DO	DO	5/24/2023 11:05	0.44	mg/L
GC-AP-MW-39H	DTW	Depth to Water Detail	5/24/2023 11:05	34.56	ft
GC-AP-MW-39H	ORP	Oxidation Reduction Potention	5/24/2023 11:05	-60.01	mv
GC-AP-MW-39H	PH	pH	5/24/2023 11:05	6.48	SU
GC-AP-MW-39H	TEMP	Temperature	5/24/2023 11:05	19.5	C
GC-AP-MW-39H	TURB	Turbidity	5/24/2023 11:05	3.28	NTU
GC-AP-MW-39H	COND	Conductivity	5/24/2023 11:10	809.83	uS/cm
GC-AP-MW-39H	DO	DO	5/24/2023 11:10	0.36	mg/L
GC-AP-MW-39H	DTW	Depth to Water Detail	5/24/2023 11:10	34.56	ft
GC-AP-MW-39H	ORP	Oxidation Reduction Potention	5/24/2023 11:10	-61.29	mv
GC-AP-MW-39H	PH	pH	5/24/2023 11:10	6.48	SU
GC-AP-MW-39H	TEMP	Temperature	5/24/2023 11:10	19.5	C
GC-AP-MW-39H	TURB	Turbidity	5/24/2023 11:10	2.12	NTU
GC-AP-MW-39H	COND	Conductivity	5/24/2023 11:15	809.47	uS/cm
GC-AP-MW-39H	DO	DO	5/24/2023 11:15	0.33	mg/L
GC-AP-MW-39H	DTW	Depth to Water Detail	5/24/2023 11:15	34.56	ft
GC-AP-MW-39H	ORP	Oxidation Reduction Potention	5/24/2023 11:15	-61.82	mv
GC-AP-MW-39H	PH	pH	5/24/2023 11:15	6.48	SU
GC-AP-MW-39H	TEMP	Temperature	5/24/2023 11:15	19.51	C
GC-AP-MW-39H	TURB	Turbidity	5/24/2023 11:15	2.04	NTU
GC-AP-MW-39H	COND	Conductivity	5/24/2023 11:20	808.79	uS/cm
GC-AP-MW-39H	DO	DO	5/24/2023 11:20	0.3	mg/L
GC-AP-MW-39H	DTW	Depth to Water Detail	5/24/2023 11:20	34.56	ft
GC-AP-MW-39H	ORP	Oxidation Reduction Potention	5/24/2023 11:20	-62.11	mv
GC-AP-MW-39H	PH	pH	5/24/2023 11:20	6.47	SU
GC-AP-MW-39H	SULFIDE	Sulfide	5/24/2023 11:20	0	mg/L
GC-AP-MW-39H	TEMP	Temperature	5/24/2023 11:20	19.52	C
GC-AP-MW-39H	TURB	Turbidity	5/24/2023 11:20	1.98	NTU

## Field Parameters Summary Greene County Ash Pond

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-41H	COND	Conductivity	5/31/2023 9:26	751.8	uS/cm
GC-AP-MW-41H	DO	DO	5/31/2023 9:26	0.17	mg/L
GC-AP-MW-41H	DTW	Depth to Water Detail	5/31/2023 9:26	12.18	ft
GC-AP-MW-41H	ORP	Oxidation Reduction Potention	5/31/2023 9:26	-36.32	mv
GC-AP-MW-41H	PH	pH	5/31/2023 9:26	6.42	SU
GC-AP-MW-41H	TEMP	Temperature	5/31/2023 9:26	19.58	C
GC-AP-MW-41H	TURB	Turbidity	5/31/2023 9:26	19.3	NTU
GC-AP-MW-41H	COND	Conductivity	5/31/2023 9:31	747.01	uS/cm
GC-AP-MW-41H	DO	DO	5/31/2023 9:31	0.14	mg/L
GC-AP-MW-41H	DTW	Depth to Water Detail	5/31/2023 9:31	12.18	ft
GC-AP-MW-41H	ORP	Oxidation Reduction Potention	5/31/2023 9:31	-31.43	mv
GC-AP-MW-41H	PH	pH	5/31/2023 9:31	6.34	SU
GC-AP-MW-41H	TEMP	Temperature	5/31/2023 9:31	19.57	C
GC-AP-MW-41H	TURB	Turbidity	5/31/2023 9:31	16.1	NTU
GC-AP-MW-41H	COND	Conductivity	5/31/2023 9:36	742.85	uS/cm
GC-AP-MW-41H	DO	DO	5/31/2023 9:36	0.13	mg/L
GC-AP-MW-41H	DTW	Depth to Water Detail	5/31/2023 9:36	12.18	ft
GC-AP-MW-41H	ORP	Oxidation Reduction Potention	5/31/2023 9:36	-27.16	mv
GC-AP-MW-41H	PH	pH	5/31/2023 9:36	6.3	SU
GC-AP-MW-41H	TEMP	Temperature	5/31/2023 9:36	19.49	C
GC-AP-MW-41H	TURB	Turbidity	5/31/2023 9:36	12.6	NTU
GC-AP-MW-41H	COND	Conductivity	5/31/2023 9:41	737.16	uS/cm
GC-AP-MW-41H	DO	DO	5/31/2023 9:41	0.12	mg/L
GC-AP-MW-41H	DTW	Depth to Water Detail	5/31/2023 9:41	12.18	ft
GC-AP-MW-41H	ORP	Oxidation Reduction Potention	5/31/2023 9:41	-23.78	mv
GC-AP-MW-41H	PH	pH	5/31/2023 9:41	6.25	SU
GC-AP-MW-41H	TEMP	Temperature	5/31/2023 9:41	19.58	C
GC-AP-MW-41H	TURB	Turbidity	5/31/2023 9:41	10.04	NTU
GC-AP-MW-41H	COND	Conductivity	5/31/2023 9:46	741.66	uS/cm
GC-AP-MW-41H	DO	DO	5/31/2023 9:46	0.12	mg/L
GC-AP-MW-41H	DTW	Depth to Water Detail	5/31/2023 9:46	12.18	ft
GC-AP-MW-41H	ORP	Oxidation Reduction Potention	5/31/2023 9:46	-22.43	mv
GC-AP-MW-41H	PH	pH	5/31/2023 9:46	6.23	SU
GC-AP-MW-41H	TEMP	Temperature	5/31/2023 9:46	19.54	C
GC-AP-MW-41H	TURB	Turbidity	5/31/2023 9:46	9.11	NTU
GC-AP-MW-41H	COND	Conductivity	5/31/2023 9:51	740.97	uS/cm
GC-AP-MW-41H	DO	DO	5/31/2023 9:51	0.13	mg/L
GC-AP-MW-41H	DTW	Depth to Water Detail	5/31/2023 9:51	12.18	ft
GC-AP-MW-41H	ORP	Oxidation Reduction Potention	5/31/2023 9:51	-19.49	mv
GC-AP-MW-41H	PH	pH	5/31/2023 9:51	6.19	SU
GC-AP-MW-41H	SULFIDE	Sulfide	5/31/2023 9:51	0	mg/L
GC-AP-MW-41H	TEMP	Temperature	5/31/2023 9:51	19.55	C
GC-AP-MW-41H	TURB	Turbidity	5/31/2023 9:51	9.08	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-42H	COND	Conductivity	5/30/2023 11:49	567.61	uS/cm
GC-AP-MW-42H	DO	DO	5/30/2023 11:49	0.04	mg/L
GC-AP-MW-42H	DTW	Depth to Water Detail	5/30/2023 11:49	7.92	ft
GC-AP-MW-42H	ORP	Oxidation Reduction Potention	5/30/2023 11:49	-27.11	mv
GC-AP-MW-42H	PH	pH	5/30/2023 11:49	6.31	SU
GC-AP-MW-42H	TEMP	Temperature	5/30/2023 11:49	20.6	C
GC-AP-MW-42H	TURB	Turbidity	5/30/2023 11:49	96.8	NTU
GC-AP-MW-42H	COND	Conductivity	5/30/2023 11:54	562.84	uS/cm
GC-AP-MW-42H	DO	DO	5/30/2023 11:54	0.06	mg/L
GC-AP-MW-42H	DTW	Depth to Water Detail	5/30/2023 11:54	7.92	ft
GC-AP-MW-42H	ORP	Oxidation Reduction Potention	5/30/2023 11:54	-25.75	mv
GC-AP-MW-42H	PH	pH	5/30/2023 11:54	6.36	SU
GC-AP-MW-42H	TEMP	Temperature	5/30/2023 11:54	20.63	C
GC-AP-MW-42H	TURB	Turbidity	5/30/2023 11:54	87.3	NTU
GC-AP-MW-42H	COND	Conductivity	5/30/2023 11:59	559.38	uS/cm
GC-AP-MW-42H	DO	DO	5/30/2023 11:59	0.04	mg/L
GC-AP-MW-42H	DTW	Depth to Water Detail	5/30/2023 11:59	7.92	ft
GC-AP-MW-42H	ORP	Oxidation Reduction Potention	5/30/2023 11:59	-23.5	mv
GC-AP-MW-42H	PH	pH	5/30/2023 11:59	6.29	SU
GC-AP-MW-42H	TEMP	Temperature	5/30/2023 11:59	20.39	C
GC-AP-MW-42H	TURB	Turbidity	5/30/2023 11:59	38.6	NTU
GC-AP-MW-42H	COND	Conductivity	5/30/2023 12:04	559.7	uS/cm
GC-AP-MW-42H	DO	DO	5/30/2023 12:04	0.1	mg/L
GC-AP-MW-42H	DTW	Depth to Water Detail	5/30/2023 12:04	7.92	ft
GC-AP-MW-42H	ORP	Oxidation Reduction Potention	5/30/2023 12:04	19.93	mv
GC-AP-MW-42H	PH	pH	5/30/2023 12:04	6.22	SU
GC-AP-MW-42H	TEMP	Temperature	5/30/2023 12:04	20.67	C
GC-AP-MW-42H	TURB	Turbidity	5/30/2023 12:04	26.1	NTU
GC-AP-MW-42H	COND	Conductivity	5/30/2023 12:09	557.64	uS/cm
GC-AP-MW-42H	DO	DO	5/30/2023 12:09	0.05	mg/L
GC-AP-MW-42H	DTW	Depth to Water Detail	5/30/2023 12:09	7.92	ft
GC-AP-MW-42H	ORP	Oxidation Reduction Potention	5/30/2023 12:09	6.74	mv
GC-AP-MW-42H	PH	pH	5/30/2023 12:09	6.23	SU
GC-AP-MW-42H	TEMP	Temperature	5/30/2023 12:09	20.35	C
GC-AP-MW-42H	TURB	Turbidity	5/30/2023 12:09	19.1	NTU
GC-AP-MW-42H	COND	Conductivity	5/30/2023 12:14	555.37	uS/cm
GC-AP-MW-42H	DO	DO	5/30/2023 12:14	0.05	mg/L
GC-AP-MW-42H	DTW	Depth to Water Detail	5/30/2023 12:14	7.92	ft
GC-AP-MW-42H	ORP	Oxidation Reduction Potention	5/30/2023 12:14	4.36	mv
GC-AP-MW-42H	PH	pH	5/30/2023 12:14	6.22	SU
GC-AP-MW-42H	TEMP	Temperature	5/30/2023 12:14	19.8	C
GC-AP-MW-42H	TURB	Turbidity	5/30/2023 12:14	16.2	NTU
GC-AP-MW-42H	COND	Conductivity	5/30/2023 12:19	557.55	uS/cm
GC-AP-MW-42H	DO	DO	5/30/2023 12:19	0.04	mg/L



**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-42H	DTW	Depth to Water Detail	5/30/2023 12:19	7.92	ft
GC-AP-MW-42H	ORP	Oxidation Reduction Potention	5/30/2023 12:19	2.31	mv
GC-AP-MW-42H	PH	pH	5/30/2023 12:19	6.21	SU
GC-AP-MW-42H	TEMP	Temperature	5/30/2023 12:19	20.6	C
GC-AP-MW-42H	TURB	Turbidity	5/30/2023 12:19	12.9	NTU
GC-AP-MW-42H	COND	Conductivity	5/30/2023 12:24	558.18	uS/cm
GC-AP-MW-42H	DO	DO	5/30/2023 12:24	0.04	mg/L
GC-AP-MW-42H	DTW	Depth to Water Detail	5/30/2023 12:24	7.92	ft
GC-AP-MW-42H	ORP	Oxidation Reduction Potention	5/30/2023 12:24	0.23	mv
GC-AP-MW-42H	PH	pH	5/30/2023 12:24	6.2	SU
GC-AP-MW-42H	TEMP	Temperature	5/30/2023 12:24	21.01	C
GC-AP-MW-42H	TURB	Turbidity	5/30/2023 12:24	10.8	NTU
GC-AP-MW-42H	COND	Conductivity	5/30/2023 12:29	555.77	uS/cm
GC-AP-MW-42H	DO	DO	5/30/2023 12:29	0.04	mg/L
GC-AP-MW-42H	DTW	Depth to Water Detail	5/30/2023 12:29	7.92	ft
GC-AP-MW-42H	ORP	Oxidation Reduction Potention	5/30/2023 12:29	-1.1	mv
GC-AP-MW-42H	PH	pH	5/30/2023 12:29	6.2	SU
GC-AP-MW-42H	SULFIDE	Sulfide	5/30/2023 12:29	0	mg/L
GC-AP-MW-42H	TEMP	Temperature	5/30/2023 12:29	20.55	C
GC-AP-MW-42H	TURB	Turbidity	5/30/2023 12:29	9.21	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-43H	COND	Conductivity	5/24/2023 13:40	873.36	uS/cm
GC-AP-MW-43H	DO	DO	5/24/2023 13:40	0.23	mg/L
GC-AP-MW-43H	DTW	Depth to Water Detail	5/24/2023 13:40	7.95	ft
GC-AP-MW-43H	ORP	Oxidation Reduction Potention	5/24/2023 13:40	-26.17	mv
GC-AP-MW-43H	PH	pH	5/24/2023 13:40	6.41	SU
GC-AP-MW-43H	TEMP	Temperature	5/24/2023 13:40	18.85	C
GC-AP-MW-43H	TURB	Turbidity	5/24/2023 13:40	8.34	NTU
GC-AP-MW-43H	COND	Conductivity	5/24/2023 13:45	873.22	uS/cm
GC-AP-MW-43H	DO	DO	5/24/2023 13:45	0.02	mg/L
GC-AP-MW-43H	DTW	Depth to Water Detail	5/24/2023 13:45	7.95	ft
GC-AP-MW-43H	ORP	Oxidation Reduction Potention	5/24/2023 13:45	-26.9	mv
GC-AP-MW-43H	PH	pH	5/24/2023 13:45	6.38	SU
GC-AP-MW-43H	TEMP	Temperature	5/24/2023 13:45	18.87	C
GC-AP-MW-43H	TURB	Turbidity	5/24/2023 13:45	7.1	NTU
GC-AP-MW-43H	COND	Conductivity	5/24/2023 13:50	872.31	uS/cm
GC-AP-MW-43H	DO	DO	5/24/2023 13:50	0.19	mg/L
GC-AP-MW-43H	DTW	Depth to Water Detail	5/24/2023 13:50	7.95	ft
GC-AP-MW-43H	ORP	Oxidation Reduction Potention	5/24/2023 13:50	-27.6	mv
GC-AP-MW-43H	PH	pH	5/24/2023 13:50	6.38	SU
GC-AP-MW-43H	TEMP	Temperature	5/24/2023 13:50	18.91	C
GC-AP-MW-43H	TURB	Turbidity	5/24/2023 13:50	4.7	NTU
GC-AP-MW-43H	COND	Conductivity	5/24/2023 13:55	871.81	uS/cm
GC-AP-MW-43H	DO	DO	5/24/2023 13:55	0	mg/L
GC-AP-MW-43H	DTW	Depth to Water Detail	5/24/2023 13:55	7.95	ft
GC-AP-MW-43H	ORP	Oxidation Reduction Potention	5/24/2023 13:55	-28.63	mv
GC-AP-MW-43H	PH	pH	5/24/2023 13:55	6.38	SU
GC-AP-MW-43H	SULFIDE	Sulfide	5/24/2023 13:55	0	mg/L
GC-AP-MW-43H	TEMP	Temperature	5/24/2023 13:55	18.94	C
GC-AP-MW-43H	TURB	Turbidity	5/24/2023 13:55	4.48	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-48H	COND	Conductivity	5/30/2023 14:05	75.44	uS/cm
GC-AP-MW-48H	DO	DO	5/30/2023 14:05	0.08	mg/L
GC-AP-MW-48H	DTW	Depth to Water Detail	5/30/2023 14:05	8.6	ft
GC-AP-MW-48H	ORP	Oxidation Reduction Potention	5/30/2023 14:05	251.24	mv
GC-AP-MW-48H	PH	pH	5/30/2023 14:05	5.29	SU
GC-AP-MW-48H	TEMP	Temperature	5/30/2023 14:05	19.35	C
GC-AP-MW-48H	TURB	Turbidity	5/30/2023 14:05	1.97	NTU
GC-AP-MW-48H	COND	Conductivity	5/30/2023 14:10	90.52	uS/cm
GC-AP-MW-48H	DO	DO	5/30/2023 14:10	0.06	mg/L
GC-AP-MW-48H	DTW	Depth to Water Detail	5/30/2023 14:10	8.6	ft
GC-AP-MW-48H	ORP	Oxidation Reduction Potention	5/30/2023 14:10	255.29	mv
GC-AP-MW-48H	PH	pH	5/30/2023 14:10	5.33	SU
GC-AP-MW-48H	TEMP	Temperature	5/30/2023 14:10	19.18	C
GC-AP-MW-48H	TURB	Turbidity	5/30/2023 14:10	1.88	NTU
GC-AP-MW-48H	COND	Conductivity	5/30/2023 14:15	94.55	uS/cm
GC-AP-MW-48H	DO	DO	5/30/2023 14:15	0.05	mg/L
GC-AP-MW-48H	DTW	Depth to Water Detail	5/30/2023 14:15	8.6	ft
GC-AP-MW-48H	ORP	Oxidation Reduction Potention	5/30/2023 14:15	256.44	mv
GC-AP-MW-48H	PH	pH	5/30/2023 14:15	5.4	SU
GC-AP-MW-48H	TEMP	Temperature	5/30/2023 14:15	19.07	C
GC-AP-MW-48H	TURB	Turbidity	5/30/2023 14:15	1.75	NTU
GC-AP-MW-48H	COND	Conductivity	5/30/2023 14:20	96.04	uS/cm
GC-AP-MW-48H	DO	DO	5/30/2023 14:20	0.05	mg/L
GC-AP-MW-48H	DTW	Depth to Water Detail	5/30/2023 14:20	8.6	ft
GC-AP-MW-48H	ORP	Oxidation Reduction Potention	5/30/2023 14:20	252.14	mv
GC-AP-MW-48H	PH	pH	5/30/2023 14:20	5.43	SU
GC-AP-MW-48H	TEMP	Temperature	5/30/2023 14:20	19.02	C
GC-AP-MW-48H	TURB	Turbidity	5/30/2023 14:20	1.8	NTU
GC-AP-MW-48H	COND	Conductivity	5/30/2023 14:25	96.83	uS/cm
GC-AP-MW-48H	DO	DO	5/30/2023 14:25	0.05	mg/L
GC-AP-MW-48H	DTW	Depth to Water Detail	5/30/2023 14:25	8.6	ft
GC-AP-MW-48H	ORP	Oxidation Reduction Potention	5/30/2023 14:25	250.82	mv
GC-AP-MW-48H	PH	pH	5/30/2023 14:25	5.45	SU
GC-AP-MW-48H	SULFIDE	Sulfide	5/30/2023 14:25	0	mg/L
GC-AP-MW-48H	TEMP	Temperature	5/30/2023 14:25	18.96	C
GC-AP-MW-48H	TURB	Turbidity	5/30/2023 14:25	1.94	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-49H	COND	Conductivity	5/30/2023 13:04	341.29	uS/cm
GC-AP-MW-49H	DO	DO	5/30/2023 13:04	1.62	mg/L
GC-AP-MW-49H	DTW	Depth to Water Detail	5/30/2023 13:04	9.9	ft
GC-AP-MW-49H	ORP	Oxidation Reduction Potention	5/30/2023 13:04	165.44	mv
GC-AP-MW-49H	PH	pH	5/30/2023 13:04	5.59	SU
GC-AP-MW-49H	TEMP	Temperature	5/30/2023 13:04	21.61	C
GC-AP-MW-49H	TURB	Turbidity	5/30/2023 13:04	3.16	NTU
GC-AP-MW-49H	COND	Conductivity	5/30/2023 13:09	337.08	uS/cm
GC-AP-MW-49H	DO	DO	5/30/2023 13:09	1.67	mg/L
GC-AP-MW-49H	DTW	Depth to Water Detail	5/30/2023 13:09	9.9	ft
GC-AP-MW-49H	ORP	Oxidation Reduction Potention	5/30/2023 13:09	173.65	mv
GC-AP-MW-49H	PH	pH	5/30/2023 13:09	5.63	SU
GC-AP-MW-49H	TEMP	Temperature	5/30/2023 13:09	21.41	C
GC-AP-MW-49H	TURB	Turbidity	5/30/2023 13:09	2.98	NTU
GC-AP-MW-49H	COND	Conductivity	5/30/2023 13:14	337.92	uS/cm
GC-AP-MW-49H	DO	DO	5/30/2023 13:14	1.66	mg/L
GC-AP-MW-49H	DTW	Depth to Water Detail	5/30/2023 13:14	9.9	ft
GC-AP-MW-49H	ORP	Oxidation Reduction Potention	5/30/2023 13:14	176.95	mv
GC-AP-MW-49H	PH	pH	5/30/2023 13:14	5.6	SU
GC-AP-MW-49H	TEMP	Temperature	5/30/2023 13:14	21.39	C
GC-AP-MW-49H	TURB	Turbidity	5/30/2023 13:14	2.86	NTU
GC-AP-MW-49H	COND	Conductivity	5/30/2023 13:19	340.93	uS/cm
GC-AP-MW-49H	DO	DO	5/30/2023 13:19	1.58	mg/L
GC-AP-MW-49H	DTW	Depth to Water Detail	5/30/2023 13:19	9.9	ft
GC-AP-MW-49H	ORP	Oxidation Reduction Potention	5/30/2023 13:19	176.83	mv
GC-AP-MW-49H	PH	pH	5/30/2023 13:19	5.6	SU
GC-AP-MW-49H	SULFIDE	Sulfide	5/30/2023 13:19	0	mg/L
GC-AP-MW-49H	TEMP	Temperature	5/30/2023 13:19	21.7	C
GC-AP-MW-49H	TURB	Turbidity	5/30/2023 13:19	2.8	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-23	COND	Conductivity	5/16/2023 8:20	160.35	uS/cm
GC-AP-MW-23	DO	DO	5/16/2023 8:20	5.75	mg/L
GC-AP-MW-23	DTW	Depth to Water Detail	5/16/2023 8:20	14.59	ft
GC-AP-MW-23	ORP	Oxidation Reduction Potention	5/16/2023 8:20	124.86	mv
GC-AP-MW-23	PH	pH	5/16/2023 8:20	5.96	SU
GC-AP-MW-23	TEMP	Temperature	5/16/2023 8:20	18.39	C
GC-AP-MW-23	TURB	Turbidity	5/16/2023 8:20	6.12	NTU
GC-AP-MW-23	COND	Conductivity	5/16/2023 8:25	157.15	uS/cm
GC-AP-MW-23	DO	DO	5/16/2023 8:25	5.9	mg/L
GC-AP-MW-23	DTW	Depth to Water Detail	5/16/2023 8:25	15.33	ft
GC-AP-MW-23	ORP	Oxidation Reduction Potention	5/16/2023 8:25	124.37	mv
GC-AP-MW-23	PH	pH	5/16/2023 8:25	6.07	SU
GC-AP-MW-23	TEMP	Temperature	5/16/2023 8:25	18.42	C
GC-AP-MW-23	TURB	Turbidity	5/16/2023 8:25	3.75	NTU
GC-AP-MW-23	COND	Conductivity	5/16/2023 8:30	154.32	uS/cm
GC-AP-MW-23	DO	DO	5/16/2023 8:30	5.96	mg/L
GC-AP-MW-23	DTW	Depth to Water Detail	5/16/2023 8:30	15.33	ft
GC-AP-MW-23	ORP	Oxidation Reduction Potention	5/16/2023 8:30	122.53	mv
GC-AP-MW-23	PH	pH	5/16/2023 8:30	6.11	SU
GC-AP-MW-23	TEMP	Temperature	5/16/2023 8:30	18.39	C
GC-AP-MW-23	TURB	Turbidity	5/16/2023 8:30	2.99	NTU
GC-AP-MW-23	COND	Conductivity	5/16/2023 8:35	152.7	uS/cm
GC-AP-MW-23	DO	DO	5/16/2023 8:35	6	mg/L
GC-AP-MW-23	DTW	Depth to Water Detail	5/16/2023 8:35	15.33	ft
GC-AP-MW-23	ORP	Oxidation Reduction Potention	5/16/2023 8:35	125.76	mv
GC-AP-MW-23	PH	pH	5/16/2023 8:35	6.09	SU
GC-AP-MW-23	SULFIDE	Sulfide	5/16/2023 8:35	0	mg/L
GC-AP-MW-23	TEMP	Temperature	5/16/2023 8:35	18.41	C
GC-AP-MW-23	TURB	Turbidity	5/16/2023 8:35	1.89	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-24	COND	Conductivity	5/16/2023 10:27	261.19	uS/cm
GC-AP-MW-24	DO	DO	5/16/2023 10:27	3.32	mg/L
GC-AP-MW-24	DTW	Depth to Water Detail	5/16/2023 10:27	18.53	ft
GC-AP-MW-24	ORP	Oxidation Reduction Potention	5/16/2023 10:27	181.06	mv
GC-AP-MW-24	PH	pH	5/16/2023 10:27	4.59	SU
GC-AP-MW-24	TEMP	Temperature	5/16/2023 10:27	19.46	C
GC-AP-MW-24	TURB	Turbidity	5/16/2023 10:27	2.82	NTU
GC-AP-MW-24	COND	Conductivity	5/16/2023 10:32	268.91	uS/cm
GC-AP-MW-24	DO	DO	5/16/2023 10:32	3.28	mg/L
GC-AP-MW-24	DTW	Depth to Water Detail	5/16/2023 10:32	18.53	ft
GC-AP-MW-24	ORP	Oxidation Reduction Potention	5/16/2023 10:32	193.38	mv
GC-AP-MW-24	PH	pH	5/16/2023 10:32	4.61	SU
GC-AP-MW-24	TEMP	Temperature	5/16/2023 10:32	19.43	C
GC-AP-MW-24	TURB	Turbidity	5/16/2023 10:32	2.26	NTU
GC-AP-MW-24	COND	Conductivity	5/16/2023 10:37	273.02	uS/cm
GC-AP-MW-24	DO	DO	5/16/2023 10:37	3.3	mg/L
GC-AP-MW-24	DTW	Depth to Water Detail	5/16/2023 10:37	18.53	ft
GC-AP-MW-24	ORP	Oxidation Reduction Potention	5/16/2023 10:37	199.93	mv
GC-AP-MW-24	PH	pH	5/16/2023 10:37	4.66	SU
GC-AP-MW-24	TEMP	Temperature	5/16/2023 10:37	19.4	C
GC-AP-MW-24	TURB	Turbidity	5/16/2023 10:37	2	NTU
GC-AP-MW-24	COND	Conductivity	5/16/2023 10:42	354.71	uS/cm
GC-AP-MW-24	DO	DO	5/16/2023 10:42	3.44	mg/L
GC-AP-MW-24	DTW	Depth to Water Detail	5/16/2023 10:42	18.53	ft
GC-AP-MW-24	ORP	Oxidation Reduction Potention	5/16/2023 10:42	200.5	mv
GC-AP-MW-24	PH	pH	5/16/2023 10:42	4.82	SU
GC-AP-MW-24	TEMP	Temperature	5/16/2023 10:42	19.84	C
GC-AP-MW-24	TURB	Turbidity	5/16/2023 10:42	1.94	NTU
GC-AP-MW-24	COND	Conductivity	5/16/2023 10:47	276.52	uS/cm
GC-AP-MW-24	DO	DO	5/16/2023 10:47	3.5	mg/L
GC-AP-MW-24	DTW	Depth to Water Detail	5/16/2023 10:47	18.53	ft
GC-AP-MW-24	ORP	Oxidation Reduction Potention	5/16/2023 10:47	205.92	mv
GC-AP-MW-24	PH	pH	5/16/2023 10:47	4.69	SU
GC-AP-MW-24	TEMP	Temperature	5/16/2023 10:47	19.39	C
GC-AP-MW-24	TURB	Turbidity	5/16/2023 10:47	3.04	NTU
GC-AP-MW-24	COND	Conductivity	5/16/2023 10:52	296.23	uS/cm
GC-AP-MW-24	DO	DO	5/16/2023 10:52	3.36	mg/L
GC-AP-MW-24	DTW	Depth to Water Detail	5/16/2023 10:52	18.53	ft
GC-AP-MW-24	ORP	Oxidation Reduction Potention	5/16/2023 10:52	206.61	mv
GC-AP-MW-24	PH	pH	5/16/2023 10:52	4.75	SU
GC-AP-MW-24	TEMP	Temperature	5/16/2023 10:52	19.35	C
GC-AP-MW-24	TURB	Turbidity	5/16/2023 10:52	1.6	NTU
GC-AP-MW-24	COND	Conductivity	5/16/2023 10:57	288.51	uS/cm
GC-AP-MW-24	DO	DO	5/16/2023 10:57	3.31	mg/L

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-24	DTW	Depth to Water Detail	5/16/2023 10:57	18.53	ft
GC-AP-MW-24	ORP	Oxidation Reduction Potention	5/16/2023 10:57	203.14	mv
GC-AP-MW-24	PH	pH	5/16/2023 10:57	4.76	SU
GC-AP-MW-24	TEMP	Temperature	5/16/2023 10:57	19.41	C
GC-AP-MW-24	TURB	Turbidity	5/16/2023 10:57	1.58	NTU
GC-AP-MW-24	COND	Conductivity	5/16/2023 11:02	287.17	uS/cm
GC-AP-MW-24	DO	DO	5/16/2023 11:02	3.35	mg/L
GC-AP-MW-24	DTW	Depth to Water Detail	5/16/2023 11:02	18.53	ft
GC-AP-MW-24	ORP	Oxidation Reduction Potention	5/16/2023 11:02	203.17	mv
GC-AP-MW-24	PH	pH	5/16/2023 11:02	4.8	SU
GC-AP-MW-24	SULFIDE	Sulfide	5/16/2023 11:02	0	mg/L
GC-AP-MW-24	TEMP	Temperature	5/16/2023 11:02	19.32	C
GC-AP-MW-24	TURB	Turbidity	5/16/2023 11:02	1.05	NTU

## Field Parameters Summary Greene County Ash Pond

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-PZ-4	COND	Conductivity	5/17/2023 8:10	767.24	uS/cm
GC-AP-PZ-4	DO	DO	5/17/2023 8:10	1.93	mg/L
GC-AP-PZ-4	DTW	Depth to Water Detail	5/17/2023 8:10	12.76	ft
GC-AP-PZ-4	ORP	Oxidation Reduction Potention	5/17/2023 8:10	124.45	mv
GC-AP-PZ-4	PH	pH	5/17/2023 8:10	5.16	SU
GC-AP-PZ-4	TEMP	Temperature	5/17/2023 8:10	21.06	C
GC-AP-PZ-4	TURB	Turbidity	5/17/2023 8:10	6.65	NTU
GC-AP-PZ-4	COND	Conductivity	5/17/2023 8:15	961.89	uS/cm
GC-AP-PZ-4	DO	DO	5/17/2023 8:15	1.52	mg/L
GC-AP-PZ-4	DTW	Depth to Water Detail	5/17/2023 8:15	12.81	ft
GC-AP-PZ-4	ORP	Oxidation Reduction Potention	5/17/2023 8:15	117.44	mv
GC-AP-PZ-4	PH	pH	5/17/2023 8:15	5.25	SU
GC-AP-PZ-4	TEMP	Temperature	5/17/2023 8:15	21.1	C
GC-AP-PZ-4	TURB	Turbidity	5/17/2023 8:15	4.45	NTU
GC-AP-PZ-4	COND	Conductivity	5/17/2023 8:20	1146.33	uS/cm
GC-AP-PZ-4	DO	DO	5/17/2023 8:20	1.2	mg/L
GC-AP-PZ-4	DTW	Depth to Water Detail	5/17/2023 8:20	12.81	ft
GC-AP-PZ-4	ORP	Oxidation Reduction Potention	5/17/2023 8:20	115.97	mv
GC-AP-PZ-4	PH	pH	5/17/2023 8:20	5.26	SU
GC-AP-PZ-4	TEMP	Temperature	5/17/2023 8:20	21.15	C
GC-AP-PZ-4	TURB	Turbidity	5/17/2023 8:20	4.06	NTU
GC-AP-PZ-4	COND	Conductivity	5/17/2023 8:25	1248.86	uS/cm
GC-AP-PZ-4	DO	DO	5/17/2023 8:25	1.02	mg/L
GC-AP-PZ-4	DTW	Depth to Water Detail	5/17/2023 8:25	12.81	ft
GC-AP-PZ-4	ORP	Oxidation Reduction Potention	5/17/2023 8:25	114.81	mv
GC-AP-PZ-4	PH	pH	5/17/2023 8:25	5.26	SU
GC-AP-PZ-4	TEMP	Temperature	5/17/2023 8:25	21.23	C
GC-AP-PZ-4	TURB	Turbidity	5/17/2023 8:25	3.68	NTU
GC-AP-PZ-4	COND	Conductivity	5/17/2023 8:30	1329.64	uS/cm
GC-AP-PZ-4	DO	DO	5/17/2023 8:30	0.87	mg/L
GC-AP-PZ-4	DTW	Depth to Water Detail	5/17/2023 8:30	12.81	ft
GC-AP-PZ-4	ORP	Oxidation Reduction Potention	5/17/2023 8:30	113.93	mv
GC-AP-PZ-4	PH	pH	5/17/2023 8:30	5.26	SU
GC-AP-PZ-4	TEMP	Temperature	5/17/2023 8:30	21.13	C
GC-AP-PZ-4	TURB	Turbidity	5/17/2023 8:30	2.77	NTU
GC-AP-PZ-4	COND	Conductivity	5/17/2023 8:35	1391.88	uS/cm
GC-AP-PZ-4	DO	DO	5/17/2023 8:35	0.75	mg/L
GC-AP-PZ-4	DTW	Depth to Water Detail	5/17/2023 8:35	12.81	ft
GC-AP-PZ-4	ORP	Oxidation Reduction Potention	5/17/2023 8:35	113.09	mv
GC-AP-PZ-4	PH	pH	5/17/2023 8:35	5.27	SU
GC-AP-PZ-4	TEMP	Temperature	5/17/2023 8:35	21.29	C
GC-AP-PZ-4	TURB	Turbidity	5/17/2023 8:35	2.82	NTU
GC-AP-PZ-4	COND	Conductivity	5/17/2023 8:40	1441.07	uS/cm
GC-AP-PZ-4	DO	DO	5/17/2023 8:40	0.67	mg/L



**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-PZ-4	DTW	Depth to Water Detail	5/17/2023 8:40	12.81	ft
GC-AP-PZ-4	ORP	Oxidation Reduction Potention	5/17/2023 8:40	112.27	mv
GC-AP-PZ-4	PH	pH	5/17/2023 8:40	5.28	SU
GC-AP-PZ-4	TEMP	Temperature	5/17/2023 8:40	21.21	C
GC-AP-PZ-4	TURB	Turbidity	5/17/2023 8:40	2.33	NTU
GC-AP-PZ-4	COND	Conductivity	5/17/2023 8:45	1479.35	uS/cm
GC-AP-PZ-4	DO	DO	5/17/2023 8:45	0.6	mg/L
GC-AP-PZ-4	DTW	Depth to Water Detail	5/17/2023 8:45	12.81	ft
GC-AP-PZ-4	ORP	Oxidation Reduction Potention	5/17/2023 8:45	110.84	mv
GC-AP-PZ-4	PH	pH	5/17/2023 8:45	5.31	SU
GC-AP-PZ-4	TEMP	Temperature	5/17/2023 8:45	21.18	C
GC-AP-PZ-4	TURB	Turbidity	5/17/2023 8:45	2.16	NTU
GC-AP-PZ-4	COND	Conductivity	5/17/2023 8:50	1496.6	uS/cm
GC-AP-PZ-4	DO	DO	5/17/2023 8:50	0.79	mg/L
GC-AP-PZ-4	DTW	Depth to Water Detail	5/17/2023 8:50	12.81	ft
GC-AP-PZ-4	ORP	Oxidation Reduction Potention	5/17/2023 8:50	109.62	mv
GC-AP-PZ-4	PH	pH	5/17/2023 8:50	5.34	SU
GC-AP-PZ-4	SULFIDE	Sulfide	5/17/2023 8:50	0	mg/L
GC-AP-PZ-4	TEMP	Temperature	5/17/2023 8:50	21.19	C
GC-AP-PZ-4	TURB	Turbidity	5/17/2023 8:50	2.04	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-2	COND	Conductivity	5/17/2023 9:44	1289.16	uS/cm
GC-AP-MW-2	DO	DO	5/17/2023 9:44	0.76	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	5/17/2023 9:44	14.68	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potention	5/17/2023 9:44	91.34	mv
GC-AP-MW-2	PH	pH	5/17/2023 9:44	5.65	SU
GC-AP-MW-2	TEMP	Temperature	5/17/2023 9:44	20.17	C
GC-AP-MW-2	TURB	Turbidity	5/17/2023 9:44	22.1	NTU
GC-AP-MW-2	COND	Conductivity	5/17/2023 9:49	1327.4	uS/cm
GC-AP-MW-2	DO	DO	5/17/2023 9:49	0.64	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	5/17/2023 9:49	14.8	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potention	5/17/2023 9:49	81.11	mv
GC-AP-MW-2	PH	pH	5/17/2023 9:49	5.73	SU
GC-AP-MW-2	TEMP	Temperature	5/17/2023 9:49	20.12	C
GC-AP-MW-2	TURB	Turbidity	5/17/2023 9:49	5.43	NTU
GC-AP-MW-2	COND	Conductivity	5/17/2023 9:54	1338.93	uS/cm
GC-AP-MW-2	DO	DO	5/17/2023 9:54	0.59	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	5/17/2023 9:54	14.8	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potention	5/17/2023 9:54	72.5	mv
GC-AP-MW-2	PH	pH	5/17/2023 9:54	5.77	SU
GC-AP-MW-2	TEMP	Temperature	5/17/2023 9:54	20.09	C
GC-AP-MW-2	TURB	Turbidity	5/17/2023 9:54	4.9	NTU
GC-AP-MW-2	COND	Conductivity	5/17/2023 9:59	1348.39	uS/cm
GC-AP-MW-2	DO	DO	5/17/2023 9:59	0.56	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	5/17/2023 9:59	14.8	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potention	5/17/2023 9:59	66.19	mv
GC-AP-MW-2	PH	pH	5/17/2023 9:59	5.79	SU
GC-AP-MW-2	SULFIDE	Sulfide	5/17/2023 9:59	0	mg/L
GC-AP-MW-2	TEMP	Temperature	5/17/2023 9:59	20.09	C
GC-AP-MW-2	TURB	Turbidity	5/17/2023 9:59	1.8	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-5	COND	Conductivity	5/17/2023 10:41	799.87	uS/cm
GC-AP-MW-5	DO	DO	5/17/2023 10:41	0.98	mg/L
GC-AP-MW-5	DTW	Depth to Water Detail	5/17/2023 10:41	15.61	ft
GC-AP-MW-5	ORP	Oxidation Reduction Potention	5/17/2023 10:41	-60.77	mv
GC-AP-MW-5	PH	pH	5/17/2023 10:41	6.59	SU
GC-AP-MW-5	TEMP	Temperature	5/17/2023 10:41	19.2	C
GC-AP-MW-5	TURB	Turbidity	5/17/2023 10:41	2.48	NTU
GC-AP-MW-5	COND	Conductivity	5/17/2023 10:46	810.86	uS/cm
GC-AP-MW-5	DO	DO	5/17/2023 10:46	0.8	mg/L
GC-AP-MW-5	DTW	Depth to Water Detail	5/17/2023 10:46	15.61	ft
GC-AP-MW-5	ORP	Oxidation Reduction Potention	5/17/2023 10:46	-72.8	mv
GC-AP-MW-5	PH	pH	5/17/2023 10:46	6.62	SU
GC-AP-MW-5	TEMP	Temperature	5/17/2023 10:46	19.14	C
GC-AP-MW-5	TURB	Turbidity	5/17/2023 10:46	1.42	NTU
GC-AP-MW-5	COND	Conductivity	5/17/2023 10:51	811.64	uS/cm
GC-AP-MW-5	DO	DO	5/17/2023 10:51	0.73	mg/L
GC-AP-MW-5	DTW	Depth to Water Detail	5/17/2023 10:51	15.61	ft
GC-AP-MW-5	ORP	Oxidation Reduction Potention	5/17/2023 10:51	-75.71	mv
GC-AP-MW-5	PH	pH	5/17/2023 10:51	6.64	SU
GC-AP-MW-5	TEMP	Temperature	5/17/2023 10:51	19.1	C
GC-AP-MW-5	TURB	Turbidity	5/17/2023 10:51	1.63	NTU
GC-AP-MW-5	COND	Conductivity	5/17/2023 10:56	810.34	uS/cm
GC-AP-MW-5	DO	DO	5/17/2023 10:56	0.68	mg/L
GC-AP-MW-5	DTW	Depth to Water Detail	5/17/2023 10:56	15.61	ft
GC-AP-MW-5	ORP	Oxidation Reduction Potention	5/17/2023 10:56	-76.31	mv
GC-AP-MW-5	PH	pH	5/17/2023 10:56	6.64	SU
GC-AP-MW-5	SULFIDE	Sulfide	5/17/2023 10:56	0	mg/L
GC-AP-MW-5	TEMP	Temperature	5/17/2023 10:56	19.13	C
GC-AP-MW-5	TURB	Turbidity	5/17/2023 10:56	1.8	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-17	COND	Conductivity	5/17/2023 13:11	1077.52	uS/cm
GC-AP-MW-17	DO	DO	5/17/2023 13:11	0.26	mg/L
GC-AP-MW-17	DTW	Depth to Water Detail	5/17/2023 13:11	30.9	ft
GC-AP-MW-17	ORP	Oxidation Reduction Potention	5/17/2023 13:11	-93	mv
GC-AP-MW-17	PH	pH	5/17/2023 13:11	6.65	SU
GC-AP-MW-17	TEMP	Temperature	5/17/2023 13:11	20.64	C
GC-AP-MW-17	TURB	Turbidity	5/17/2023 13:11	6.77	NTU
GC-AP-MW-17	COND	Conductivity	5/17/2023 13:16	1104.95	uS/cm
GC-AP-MW-17	DO	DO	5/17/2023 13:16	0.22	mg/L
GC-AP-MW-17	DTW	Depth to Water Detail	5/17/2023 13:16	30.9	ft
GC-AP-MW-17	ORP	Oxidation Reduction Potention	5/17/2023 13:16	-98.34	mv
GC-AP-MW-17	PH	pH	5/17/2023 13:16	6.7	SU
GC-AP-MW-17	TEMP	Temperature	5/17/2023 13:16	20.64	C
GC-AP-MW-17	TURB	Turbidity	5/17/2023 13:16	3.76	NTU
GC-AP-MW-17	COND	Conductivity	5/17/2023 13:21	1109.89	uS/cm
GC-AP-MW-17	DO	DO	5/17/2023 13:21	0.2	mg/L
GC-AP-MW-17	DTW	Depth to Water Detail	5/17/2023 13:21	30.9	ft
GC-AP-MW-17	ORP	Oxidation Reduction Potention	5/17/2023 13:21	-99.45	mv
GC-AP-MW-17	PH	pH	5/17/2023 13:21	6.7	SU
GC-AP-MW-17	TEMP	Temperature	5/17/2023 13:21	20.67	C
GC-AP-MW-17	TURB	Turbidity	5/17/2023 13:21	3.27	NTU
GC-AP-MW-17	COND	Conductivity	5/17/2023 13:26	1114.52	uS/cm
GC-AP-MW-17	DO	DO	5/17/2023 13:26	0.2	mg/L
GC-AP-MW-17	DTW	Depth to Water Detail	5/17/2023 13:26	30.9	ft
GC-AP-MW-17	ORP	Oxidation Reduction Potention	5/17/2023 13:26	-100.58	mv
GC-AP-MW-17	PH	pH	5/17/2023 13:26	6.71	SU
GC-AP-MW-17	SULFIDE	Sulfide	5/17/2023 13:26	0	mg/L
GC-AP-MW-17	TEMP	Temperature	5/17/2023 13:26	20.68	C
GC-AP-MW-17	TURB	Turbidity	5/17/2023 13:26	2.2	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-3	COND	Conductivity	5/17/2023 14:36	599.01	uS/cm
GC-AP-MW-3	DO	DO	5/17/2023 14:36	0.93	mg/L
GC-AP-MW-3	DTW	Depth to Water Detail	5/17/2023 14:36	15.4	ft
GC-AP-MW-3	ORP	Oxidation Reduction Potention	5/17/2023 14:36	-28.9	mv
GC-AP-MW-3	PH	pH	5/17/2023 14:36	5.81	SU
GC-AP-MW-3	TEMP	Temperature	5/17/2023 14:36	20.08	C
GC-AP-MW-3	TURB	Turbidity	5/17/2023 14:36	3.2	NTU
GC-AP-MW-3	COND	Conductivity	5/17/2023 14:41	602.17	uS/cm
GC-AP-MW-3	DO	DO	5/17/2023 14:41	0.87	mg/L
GC-AP-MW-3	DTW	Depth to Water Detail	5/17/2023 14:41	15.45	ft
GC-AP-MW-3	ORP	Oxidation Reduction Potention	5/17/2023 14:41	-29.12	mv
GC-AP-MW-3	PH	pH	5/17/2023 14:41	5.85	SU
GC-AP-MW-3	TEMP	Temperature	5/17/2023 14:41	20.07	C
GC-AP-MW-3	TURB	Turbidity	5/17/2023 14:41	1.31	NTU
GC-AP-MW-3	COND	Conductivity	5/17/2023 14:46	604.24	uS/cm
GC-AP-MW-3	DO	DO	5/17/2023 14:46	0.78	mg/L
GC-AP-MW-3	DTW	Depth to Water Detail	5/17/2023 14:46	15.45	ft
GC-AP-MW-3	ORP	Oxidation Reduction Potention	5/17/2023 14:46	-30.27	mv
GC-AP-MW-3	PH	pH	5/17/2023 14:46	5.89	SU
GC-AP-MW-3	TEMP	Temperature	5/17/2023 14:46	20.06	C
GC-AP-MW-3	TURB	Turbidity	5/17/2023 14:46	1.35	NTU
GC-AP-MW-3	COND	Conductivity	5/17/2023 14:51	613.65	uS/cm
GC-AP-MW-3	DO	DO	5/17/2023 14:51	0.75	mg/L
GC-AP-MW-3	DTW	Depth to Water Detail	5/17/2023 14:51	15.45	ft
GC-AP-MW-3	ORP	Oxidation Reduction Potention	5/17/2023 14:51	-32.32	mv
GC-AP-MW-3	PH	pH	5/17/2023 14:51	5.94	SU
GC-AP-MW-3	SULFIDE	Sulfide	5/17/2023 14:51	0	mg/L
GC-AP-MW-3	TEMP	Temperature	5/17/2023 14:51	20.05	C
GC-AP-MW-3	TURB	Turbidity	5/17/2023 14:51	1.08	NTU

## Field Parameters Summary Greene County Ash Pond

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-36H	COND	Conductivity	5/22/2023 12:05	255.6	uS/cm
GC-AP-MW-36H	DO	DO	5/22/2023 12:05	0.57	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	5/22/2023 12:05	26.2	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potention	5/22/2023 12:05	102.25	mv
GC-AP-MW-36H	PH	pH	5/22/2023 12:05	7.5	SU
GC-AP-MW-36H	TEMP	Temperature	5/22/2023 12:05	22.31	C
GC-AP-MW-36H	TURB	Turbidity	5/22/2023 12:05	12.8	NTU
GC-AP-MW-36H	COND	Conductivity	5/22/2023 12:10	252.05	uS/cm
GC-AP-MW-36H	DO	DO	5/22/2023 12:10	0.53	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	5/22/2023 12:10	26.2	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potention	5/22/2023 12:10	59.96	mv
GC-AP-MW-36H	PH	pH	5/22/2023 12:10	7.58	SU
GC-AP-MW-36H	TEMP	Temperature	5/22/2023 12:10	22.32	C
GC-AP-MW-36H	TURB	Turbidity	5/22/2023 12:10	11.8	NTU
GC-AP-MW-36H	COND	Conductivity	5/22/2023 12:15	252.37	uS/cm
GC-AP-MW-36H	DO	DO	5/22/2023 12:15	0.5	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	5/22/2023 12:15	26.2	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potention	5/22/2023 12:15	44.41	mv
GC-AP-MW-36H	PH	pH	5/22/2023 12:15	7.57	SU
GC-AP-MW-36H	TEMP	Temperature	5/22/2023 12:15	22.32	C
GC-AP-MW-36H	TURB	Turbidity	5/22/2023 12:15	12.35	NTU
GC-AP-MW-36H	COND	Conductivity	5/22/2023 12:20	251.74	uS/cm
GC-AP-MW-36H	DO	DO	5/22/2023 12:20	0.49	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	5/22/2023 12:20	26.2	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potention	5/22/2023 12:20	31.59	mv
GC-AP-MW-36H	PH	pH	5/22/2023 12:20	7.57	SU
GC-AP-MW-36H	TEMP	Temperature	5/22/2023 12:20	22.32	C
GC-AP-MW-36H	TURB	Turbidity	5/22/2023 12:20	11.07	NTU
GC-AP-MW-36H	COND	Conductivity	5/22/2023 12:25	252.83	uS/cm
GC-AP-MW-36H	DO	DO	5/22/2023 12:25	0.48	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	5/22/2023 12:25	26.2	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potention	5/22/2023 12:25	27.48	mv
GC-AP-MW-36H	PH	pH	5/22/2023 12:25	7.55	SU
GC-AP-MW-36H	TEMP	Temperature	5/22/2023 12:25	22.33	C
GC-AP-MW-36H	TURB	Turbidity	5/22/2023 12:25	10.2	NTU
GC-AP-MW-36H	COND	Conductivity	5/22/2023 12:30	253.4	uS/cm
GC-AP-MW-36H	DO	DO	5/22/2023 12:30	0.47	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	5/22/2023 12:30	26.2	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potention	5/22/2023 12:30	20.14	mv
GC-AP-MW-36H	PH	pH	5/22/2023 12:30	7.61	SU
GC-AP-MW-36H	SULFIDE	Sulfide	5/22/2023 12:30	0	mg/L
GC-AP-MW-36H	TEMP	Temperature	5/22/2023 12:30	22.33	C
GC-AP-MW-36H	TURB	Turbidity	5/22/2023 12:30	9.96	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-18	COND	Conductivity	5/22/2023 13:15	624.66	uS/cm
GC-AP-MW-18	DO	DO	5/22/2023 13:15	0.19	mg/L
GC-AP-MW-18	DTW	Depth to Water Detail	5/22/2023 13:15	29.51	ft
GC-AP-MW-18	ORP	Oxidation Reduction Potention	5/22/2023 13:15	-1.74	mv
GC-AP-MW-18	PH	pH	5/22/2023 13:15	6.03	SU
GC-AP-MW-18	TEMP	Temperature	5/22/2023 13:15	20.53	C
GC-AP-MW-18	TURB	Turbidity	5/22/2023 13:15	5.72	NTU
GC-AP-MW-18	COND	Conductivity	5/22/2023 13:20	626.6	uS/cm
GC-AP-MW-18	DO	DO	5/22/2023 13:20	0.17	mg/L
GC-AP-MW-18	DTW	Depth to Water Detail	5/22/2023 13:20	29.6	ft
GC-AP-MW-18	ORP	Oxidation Reduction Potention	5/22/2023 13:20	-1.48	mv
GC-AP-MW-18	PH	pH	5/22/2023 13:20	6.04	SU
GC-AP-MW-18	TEMP	Temperature	5/22/2023 13:20	20.47	C
GC-AP-MW-18	TURB	Turbidity	5/22/2023 13:20	4.93	NTU
GC-AP-MW-18	COND	Conductivity	5/22/2023 13:25	630.64	uS/cm
GC-AP-MW-18	DO	DO	5/22/2023 13:25	0.17	mg/L
GC-AP-MW-18	DTW	Depth to Water Detail	5/22/2023 13:25	29.6	ft
GC-AP-MW-18	ORP	Oxidation Reduction Potention	5/22/2023 13:25	-2.66	mv
GC-AP-MW-18	PH	pH	5/22/2023 13:25	6.07	SU
GC-AP-MW-18	TEMP	Temperature	5/22/2023 13:25	20.42	C
GC-AP-MW-18	TURB	Turbidity	5/22/2023 13:25	3.54	NTU
GC-AP-MW-18	COND	Conductivity	5/22/2023 13:30	631.86	uS/cm
GC-AP-MW-18	DO	DO	5/22/2023 13:30	0.2	mg/L
GC-AP-MW-18	DTW	Depth to Water Detail	5/22/2023 13:30	29.6	ft
GC-AP-MW-18	ORP	Oxidation Reduction Potention	5/22/2023 13:30	-4.46	mv
GC-AP-MW-18	PH	pH	5/22/2023 13:30	6.1	SU
GC-AP-MW-18	SULFIDE	Sulfide	5/22/2023 13:30	0	mg/L
GC-AP-MW-18	TEMP	Temperature	5/22/2023 13:30	20.44	C
GC-AP-MW-18	TURB	Turbidity	5/22/2023 13:30	3.26	NTU

## Field Parameters Summary Greene County Ash Pond

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-45H	COND	Conductivity	5/22/2023 14:43	753.45	uS/cm
GC-AP-MW-45H	DO	DO	5/22/2023 14:43	0.24	mg/L
GC-AP-MW-45H	DTW	Depth to Water Detail	5/22/2023 14:43	19.95	ft
GC-AP-MW-45H	ORP	Oxidation Reduction Potention	5/22/2023 14:43	36.15	mv
GC-AP-MW-45H	PH	pH	5/22/2023 14:43	6.55	SU
GC-AP-MW-45H	TEMP	Temperature	5/22/2023 14:43	21.06	C
GC-AP-MW-45H	TURB	Turbidity	5/22/2023 14:43	9.65	NTU
GC-AP-MW-45H	COND	Conductivity	5/22/2023 14:48	751.72	uS/cm
GC-AP-MW-45H	DO	DO	5/22/2023 14:48	0.21	mg/L
GC-AP-MW-45H	DTW	Depth to Water Detail	5/22/2023 14:48	20	ft
GC-AP-MW-45H	ORP	Oxidation Reduction Potention	5/22/2023 14:48	30.61	mv
GC-AP-MW-45H	PH	pH	5/22/2023 14:48	6.57	SU
GC-AP-MW-45H	TEMP	Temperature	5/22/2023 14:48	21.05	C
GC-AP-MW-45H	TURB	Turbidity	5/22/2023 14:48	6.61	NTU
GC-AP-MW-45H	COND	Conductivity	5/22/2023 14:53	752.48	uS/cm
GC-AP-MW-45H	DO	DO	5/22/2023 14:53	0.18	mg/L
GC-AP-MW-45H	DTW	Depth to Water Detail	5/22/2023 14:53	20	ft
GC-AP-MW-45H	ORP	Oxidation Reduction Potention	5/22/2023 14:53	26.85	mv
GC-AP-MW-45H	PH	pH	5/22/2023 14:53	6.61	SU
GC-AP-MW-45H	TEMP	Temperature	5/22/2023 14:53	21	C
GC-AP-MW-45H	TURB	Turbidity	5/22/2023 14:53	5.06	NTU
GC-AP-MW-45H	COND	Conductivity	5/22/2023 14:58	751.63	uS/cm
GC-AP-MW-45H	DO	DO	5/22/2023 14:58	0.22	mg/L
GC-AP-MW-45H	DTW	Depth to Water Detail	5/22/2023 14:58	20	ft
GC-AP-MW-45H	ORP	Oxidation Reduction Potention	5/22/2023 14:58	23.41	mv
GC-AP-MW-45H	PH	pH	5/22/2023 14:58	6.65	SU
GC-AP-MW-45H	SULFIDE	Sulfide	5/22/2023 14:58	0	mg/L
GC-AP-MW-45H	TEMP	Temperature	5/22/2023 14:58	21	C
GC-AP-MW-45H	TURB	Turbidity	5/22/2023 14:58	4.77	NTU



**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-37H	COND	Conductivity	5/23/2023 8:51	1112.51	uS/cm
GC-AP-MW-37H	DO	DO	5/23/2023 8:51	0.66	mg/L
GC-AP-MW-37H	DTW	Depth to Water Detail	5/23/2023 8:51	25.69	ft
GC-AP-MW-37H	ORP	Oxidation Reduction Potention	5/23/2023 8:51	-34.3	mv
GC-AP-MW-37H	PH	pH	5/23/2023 8:51	6.29	SU
GC-AP-MW-37H	TEMP	Temperature	5/23/2023 8:51	19.93	C
GC-AP-MW-37H	TURB	Turbidity	5/23/2023 8:51	5.51	NTU
GC-AP-MW-37H	COND	Conductivity	5/23/2023 8:56	1116.87	uS/cm
GC-AP-MW-37H	DO	DO	5/23/2023 8:56	0.65	mg/L
GC-AP-MW-37H	DTW	Depth to Water Detail	5/23/2023 8:56	25.84	ft
GC-AP-MW-37H	ORP	Oxidation Reduction Potention	5/23/2023 8:56	-36.19	mv
GC-AP-MW-37H	PH	pH	5/23/2023 8:56	6.28	SU
GC-AP-MW-37H	TEMP	Temperature	5/23/2023 8:56	19.97	C
GC-AP-MW-37H	TURB	Turbidity	5/23/2023 8:56	4.94	NTU
GC-AP-MW-37H	COND	Conductivity	5/23/2023 9:01	1119.34	uS/cm
GC-AP-MW-37H	DO	DO	5/23/2023 9:01	0.64	mg/L
GC-AP-MW-37H	DTW	Depth to Water Detail	5/23/2023 9:01	25.98	ft
GC-AP-MW-37H	ORP	Oxidation Reduction Potention	5/23/2023 9:01	-37.69	mv
GC-AP-MW-37H	PH	pH	5/23/2023 9:01	6.27	SU
GC-AP-MW-37H	TEMP	Temperature	5/23/2023 9:01	19.97	C
GC-AP-MW-37H	TURB	Turbidity	5/23/2023 9:01	4.06	NTU
GC-AP-MW-37H	COND	Conductivity	5/23/2023 9:06	1120.69	uS/cm
GC-AP-MW-37H	DO	DO	5/23/2023 9:06	0.62	mg/L
GC-AP-MW-37H	DTW	Depth to Water Detail	5/23/2023 9:06	26.1	ft
GC-AP-MW-37H	ORP	Oxidation Reduction Potention	5/23/2023 9:06	-39.42	mv
GC-AP-MW-37H	PH	pH	5/23/2023 9:06	6.26	SU
GC-AP-MW-37H	SULFIDE	Sulfide	5/23/2023 9:06	0	mg/L
GC-AP-MW-37H	TEMP	Temperature	5/23/2023 9:06	19.96	C
GC-AP-MW-37H	TURB	Turbidity	5/23/2023 9:06	3.34	NTU

## Field Parameters Summary Greene County Ash Pond

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-38H	COND	Conductivity	5/23/2023 10:17	461.42	uS/cm
GC-AP-MW-38H	DO	DO	5/23/2023 10:17	3.15	mg/L
GC-AP-MW-38H	DTW	Depth to Water Detail	5/23/2023 10:17	20.82	ft
GC-AP-MW-38H	ORP	Oxidation Reduction Potention	5/23/2023 10:17	23.5	mv
GC-AP-MW-38H	PH	pH	5/23/2023 10:17	6.55	SU
GC-AP-MW-38H	TEMP	Temperature	5/23/2023 10:17	19.69	C
GC-AP-MW-38H	TURB	Turbidity	5/23/2023 10:17	6.62	NTU
GC-AP-MW-38H	COND	Conductivity	5/23/2023 10:22	459.24	uS/cm
GC-AP-MW-38H	DO	DO	5/23/2023 10:22	2.99	mg/L
GC-AP-MW-38H	DTW	Depth to Water Detail	5/23/2023 10:22	20.9	ft
GC-AP-MW-38H	ORP	Oxidation Reduction Potention	5/23/2023 10:22	26.08	mv
GC-AP-MW-38H	PH	pH	5/23/2023 10:22	6.56	SU
GC-AP-MW-38H	TEMP	Temperature	5/23/2023 10:22	19.7	C
GC-AP-MW-38H	TURB	Turbidity	5/23/2023 10:22	3.89	NTU
GC-AP-MW-38H	COND	Conductivity	5/23/2023 10:27	459.05	uS/cm
GC-AP-MW-38H	DO	DO	5/23/2023 10:27	3.01	mg/L
GC-AP-MW-38H	DTW	Depth to Water Detail	5/23/2023 10:27	20.91	ft
GC-AP-MW-38H	ORP	Oxidation Reduction Potention	5/23/2023 10:27	26.7	mv
GC-AP-MW-38H	PH	pH	5/23/2023 10:27	6.58	SU
GC-AP-MW-38H	TEMP	Temperature	5/23/2023 10:27	19.72	C
GC-AP-MW-38H	TURB	Turbidity	5/23/2023 10:27	2.38	NTU
GC-AP-MW-38H	COND	Conductivity	5/23/2023 10:32	458.26	uS/cm
GC-AP-MW-38H	DO	DO	5/23/2023 10:32	3.08	mg/L
GC-AP-MW-38H	DTW	Depth to Water Detail	5/23/2023 10:32	20.94	ft
GC-AP-MW-38H	ORP	Oxidation Reduction Potention	5/23/2023 10:32	29.03	mv
GC-AP-MW-38H	PH	pH	5/23/2023 10:32	6.58	SU
GC-AP-MW-38H	TEMP	Temperature	5/23/2023 10:32	19.71	C
GC-AP-MW-38H	TURB	Turbidity	5/23/2023 10:32	1.97	NTU
GC-AP-MW-38H	COND	Conductivity	5/23/2023 10:37	457.52	uS/cm
GC-AP-MW-38H	DO	DO	5/23/2023 10:37	3.1	mg/L
GC-AP-MW-38H	DTW	Depth to Water Detail	5/23/2023 10:37	20.97	ft
GC-AP-MW-38H	ORP	Oxidation Reduction Potention	5/23/2023 10:37	29.75	mv
GC-AP-MW-38H	PH	pH	5/23/2023 10:37	6.59	SU
GC-AP-MW-38H	SULFIDE	Sulfide	5/23/2023 10:37	0	mg/L
GC-AP-MW-38H	TEMP	Temperature	5/23/2023 10:37	19.7	C
GC-AP-MW-38H	TURB	Turbidity	5/23/2023 10:37	2	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-30	COND	Conductivity	5/30/2023 11:46	28.8	uS/cm
GC-AP-MW-30	DO	DO	5/30/2023 11:46	6.28	mg/L
GC-AP-MW-30	DTW	Depth to Water Detail	5/30/2023 11:46	8.51	ft
GC-AP-MW-30	ORP	Oxidation Reduction Potention	5/30/2023 11:46	202.69	mv
GC-AP-MW-30	PH	pH	5/30/2023 11:46	4.89	SU
GC-AP-MW-30	TEMP	Temperature	5/30/2023 11:46	18.13	C
GC-AP-MW-30	TURB	Turbidity	5/30/2023 11:46	2.09	NTU
GC-AP-MW-30	COND	Conductivity	5/30/2023 11:51	28.56	uS/cm
GC-AP-MW-30	DO	DO	5/30/2023 11:51	6.23	mg/L
GC-AP-MW-30	DTW	Depth to Water Detail	5/30/2023 11:51	8.51	ft
GC-AP-MW-30	ORP	Oxidation Reduction Potention	5/30/2023 11:51	203.48	mv
GC-AP-MW-30	PH	pH	5/30/2023 11:51	5.06	SU
GC-AP-MW-30	TEMP	Temperature	5/30/2023 11:51	18.18	C
GC-AP-MW-30	TURB	Turbidity	5/30/2023 11:51	1.79	NTU
GC-AP-MW-30	COND	Conductivity	5/30/2023 11:56	28.55	uS/cm
GC-AP-MW-30	DO	DO	5/30/2023 11:56	6.16	mg/L
GC-AP-MW-30	DTW	Depth to Water Detail	5/30/2023 11:56	8.51	ft
GC-AP-MW-30	ORP	Oxidation Reduction Potention	5/30/2023 11:56	211.95	mv
GC-AP-MW-30	PH	pH	5/30/2023 11:56	5.13	SU
GC-AP-MW-30	TEMP	Temperature	5/30/2023 11:56	18.19	C
GC-AP-MW-30	TURB	Turbidity	5/30/2023 11:56	1.67	NTU
GC-AP-MW-30	COND	Conductivity	5/30/2023 12:01	28.71	uS/cm
GC-AP-MW-30	DO	DO	5/30/2023 12:01	6.16	mg/L
GC-AP-MW-30	DTW	Depth to Water Detail	5/30/2023 12:01	8.51	ft
GC-AP-MW-30	ORP	Oxidation Reduction Potention	5/30/2023 12:01	224.09	mv
GC-AP-MW-30	PH	pH	5/30/2023 12:01	5.15	SU
GC-AP-MW-30	SULFIDE	Sulfide	5/30/2023 12:01	0	mg/L
GC-AP-MW-30	TEMP	Temperature	5/30/2023 12:01	18.21	C
GC-AP-MW-30	TURB	Turbidity	5/30/2023 12:01	1.66	NTU

## Field Parameters Summary Greene County Ash Pond

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-29	COND	Conductivity	5/30/2023 12:30	14.37	uS/cm
GC-AP-MW-29	DO	DO	5/30/2023 12:30	8.84	mg/L
GC-AP-MW-29	DTW	Depth to Water Detail	5/30/2023 12:30	7.52	ft
GC-AP-MW-29	ORP	Oxidation Reduction Potention	5/30/2023 12:30	318.82	mv
GC-AP-MW-29	PH	pH	5/30/2023 12:30	3.83	SU
GC-AP-MW-29	TEMP	Temperature	5/30/2023 12:30	18.08	C
GC-AP-MW-29	TURB	Turbidity	5/30/2023 12:30	1.81	NTU
GC-AP-MW-29	COND	Conductivity	5/30/2023 12:35	14.29	uS/cm
GC-AP-MW-29	DO	DO	5/30/2023 12:35	8.87	mg/L
GC-AP-MW-29	DTW	Depth to Water Detail	5/30/2023 12:35	7.52	ft
GC-AP-MW-29	ORP	Oxidation Reduction Potention	5/30/2023 12:35	346.07	mv
GC-AP-MW-29	PH	pH	5/30/2023 12:35	3.83	SU
GC-AP-MW-29	TEMP	Temperature	5/30/2023 12:35	17.98	C
GC-AP-MW-29	TURB	Turbidity	5/30/2023 12:35	1.43	NTU
GC-AP-MW-29	COND	Conductivity	5/30/2023 12:40	14.24	uS/cm
GC-AP-MW-29	DO	DO	5/30/2023 12:40	8.88	mg/L
GC-AP-MW-29	DTW	Depth to Water Detail	5/30/2023 12:40	7.52	ft
GC-AP-MW-29	ORP	Oxidation Reduction Potention	5/30/2023 12:40	346.9	mv
GC-AP-MW-29	PH	pH	5/30/2023 12:40	4.09	SU
GC-AP-MW-29	TEMP	Temperature	5/30/2023 12:40	17.92	C
GC-AP-MW-29	TURB	Turbidity	5/30/2023 12:40	1.65	NTU
GC-AP-MW-29	COND	Conductivity	5/30/2023 12:45	14.35	uS/cm
GC-AP-MW-29	DO	DO	5/30/2023 12:45	8.84	mg/L
GC-AP-MW-29	DTW	Depth to Water Detail	5/30/2023 12:45	7.52	ft
GC-AP-MW-29	ORP	Oxidation Reduction Potention	5/30/2023 12:45	351.73	mv
GC-AP-MW-29	PH	pH	5/30/2023 12:45	4.26	SU
GC-AP-MW-29	TEMP	Temperature	5/30/2023 12:45	18.03	C
GC-AP-MW-29	TURB	Turbidity	5/30/2023 12:45	1.64	NTU
GC-AP-MW-29	COND	Conductivity	5/30/2023 12:50	14.35	uS/cm
GC-AP-MW-29	DO	DO	5/30/2023 12:50	8.8	mg/L
GC-AP-MW-29	DTW	Depth to Water Detail	5/30/2023 12:50	7.52	ft
GC-AP-MW-29	ORP	Oxidation Reduction Potention	5/30/2023 12:50	348.54	mv
GC-AP-MW-29	PH	pH	5/30/2023 12:50	4.47	SU
GC-AP-MW-29	TEMP	Temperature	5/30/2023 12:50	17.99	C
GC-AP-MW-29	TURB	Turbidity	5/30/2023 12:50	1.62	NTU
GC-AP-MW-29	COND	Conductivity	5/30/2023 12:55	7.39	uS/cm
GC-AP-MW-29	DO	DO	5/30/2023 12:55	8.73	mg/L
GC-AP-MW-29	DTW	Depth to Water Detail	5/30/2023 12:55	7.52	ft
GC-AP-MW-29	ORP	Oxidation Reduction Potention	5/30/2023 12:55	352.36	mv
GC-AP-MW-29	PH	pH	5/30/2023 12:55	4.56	SU
GC-AP-MW-29	TEMP	Temperature	5/30/2023 12:55	18.25	C
GC-AP-MW-29	TURB	Turbidity	5/30/2023 12:55	1.44	NTU
GC-AP-MW-29	COND	Conductivity	5/30/2023 13:00	8.48	uS/cm
GC-AP-MW-29	DO	DO	5/30/2023 13:00	8.69	mg/L

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-29	DTW	Depth to Water Detail	5/30/2023 13:00	7.52	ft
GC-AP-MW-29	ORP	Oxidation Reduction Potention	5/30/2023 13:00	355.39	mv
GC-AP-MW-29	PH	pH	5/30/2023 13:00	4.56	SU
GC-AP-MW-29	TEMP	Temperature	5/30/2023 13:00	18.14	C
GC-AP-MW-29	TURB	Turbidity	5/30/2023 13:00	1.03	NTU
GC-AP-MW-29	COND	Conductivity	5/30/2023 13:05	14.92	uS/cm
GC-AP-MW-29	DO	DO	5/30/2023 13:05	8.73	mg/L
GC-AP-MW-29	DTW	Depth to Water Detail	5/30/2023 13:05	7.52	ft
GC-AP-MW-29	ORP	Oxidation Reduction Potention	5/30/2023 13:05	350.63	mv
GC-AP-MW-29	PH	pH	5/30/2023 13:05	4.74	SU
GC-AP-MW-29	TEMP	Temperature	5/30/2023 13:05	18.09	C
GC-AP-MW-29	TURB	Turbidity	5/30/2023 13:05	1.02	NTU
GC-AP-MW-29	COND	Conductivity	5/30/2023 13:10	14.9	uS/cm
GC-AP-MW-29	DO	DO	5/30/2023 13:10	8.73	mg/L
GC-AP-MW-29	DTW	Depth to Water Detail	5/30/2023 13:10	7.52	ft
GC-AP-MW-29	ORP	Oxidation Reduction Potention	5/30/2023 13:10	356.24	mv
GC-AP-MW-29	PH	pH	5/30/2023 13:10	4.75	SU
GC-AP-MW-29	TEMP	Temperature	5/30/2023 13:10	18.07	C
GC-AP-MW-29	TURB	Turbidity	5/30/2023 13:10	1.04	NTU
GC-AP-MW-29	COND	Conductivity	5/30/2023 13:15	14.87	uS/cm
GC-AP-MW-29	DO	DO	5/30/2023 13:15	8.73	mg/L
GC-AP-MW-29	DTW	Depth to Water Detail	5/30/2023 13:15	7.52	ft
GC-AP-MW-29	ORP	Oxidation Reduction Potention	5/30/2023 13:15	354.3	mv
GC-AP-MW-29	PH	pH	5/30/2023 13:15	4.82	SU
GC-AP-MW-29	SULFIDE	Sulfide	5/30/2023 13:15	0	mg/L
GC-AP-MW-29	TEMP	Temperature	5/30/2023 13:15	18.07	C
GC-AP-MW-29	TURB	Turbidity	5/30/2023 13:15	0.95	NTU

## Field Parameters Summary Greene County Ash Pond

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-28	COND	Conductivity	5/30/2023 13:50	39.47	uS/cm
GC-AP-MW-28	DO	DO	5/30/2023 13:50	8.34	mg/L
GC-AP-MW-28	DTW	Depth to Water Detail	5/30/2023 13:50	8.77	ft
GC-AP-MW-28	ORP	Oxidation Reduction Potention	5/30/2023 13:50	398.43	mv
GC-AP-MW-28	PH	pH	5/30/2023 13:50	3.9	SU
GC-AP-MW-28	TEMP	Temperature	5/30/2023 13:50	18.45	C
GC-AP-MW-28	TURB	Turbidity	5/30/2023 13:50	1.45	NTU
GC-AP-MW-28	COND	Conductivity	5/30/2023 13:55	37.23	uS/cm
GC-AP-MW-28	DO	DO	5/30/2023 13:55	8.16	mg/L
GC-AP-MW-28	DTW	Depth to Water Detail	5/30/2023 13:55	8.77	ft
GC-AP-MW-28	ORP	Oxidation Reduction Potention	5/30/2023 13:55	410.1	mv
GC-AP-MW-28	PH	pH	5/30/2023 13:55	3.97	SU
GC-AP-MW-28	TEMP	Temperature	5/30/2023 13:55	18.52	C
GC-AP-MW-28	TURB	Turbidity	5/30/2023 13:55	1.19	NTU
GC-AP-MW-28	COND	Conductivity	5/30/2023 14:00	35.66	uS/cm
GC-AP-MW-28	DO	DO	5/30/2023 14:00	8.05	mg/L
GC-AP-MW-28	DTW	Depth to Water Detail	5/30/2023 14:00	8.77	ft
GC-AP-MW-28	ORP	Oxidation Reduction Potention	5/30/2023 14:00	408.67	mv
GC-AP-MW-28	PH	pH	5/30/2023 14:00	4.15	SU
GC-AP-MW-28	TEMP	Temperature	5/30/2023 14:00	18.5	C
GC-AP-MW-28	TURB	Turbidity	5/30/2023 14:00	1.05	NTU
GC-AP-MW-28	COND	Conductivity	5/30/2023 14:05	33.32	uS/cm
GC-AP-MW-28	DO	DO	5/30/2023 14:05	7.92	mg/L
GC-AP-MW-28	DTW	Depth to Water Detail	5/30/2023 14:05	8.77	ft
GC-AP-MW-28	ORP	Oxidation Reduction Potention	5/30/2023 14:05	400.32	mv
GC-AP-MW-28	PH	pH	5/30/2023 14:05	4.38	SU
GC-AP-MW-28	TEMP	Temperature	5/30/2023 14:05	18.56	C
GC-AP-MW-28	TURB	Turbidity	5/30/2023 14:05	0.87	NTU
GC-AP-MW-28	COND	Conductivity	5/30/2023 14:10	37.86	uS/cm
GC-AP-MW-28	DO	DO	5/30/2023 14:10	7.93	mg/L
GC-AP-MW-28	DTW	Depth to Water Detail	5/30/2023 14:10	8.77	ft
GC-AP-MW-28	ORP	Oxidation Reduction Potention	5/30/2023 14:10	391.42	mv
GC-AP-MW-28	PH	pH	5/30/2023 14:10	4.58	SU
GC-AP-MW-28	TEMP	Temperature	5/30/2023 14:10	18.39	C
GC-AP-MW-28	TURB	Turbidity	5/30/2023 14:10	0.83	NTU
GC-AP-MW-28	COND	Conductivity	5/30/2023 14:15	37.62	uS/cm
GC-AP-MW-28	DO	DO	5/30/2023 14:15	7.9	mg/L
GC-AP-MW-28	DTW	Depth to Water Detail	5/30/2023 14:15	8.77	ft
GC-AP-MW-28	ORP	Oxidation Reduction Potention	5/30/2023 14:15	388.38	mv
GC-AP-MW-28	PH	pH	5/30/2023 14:15	4.65	SU
GC-AP-MW-28	TEMP	Temperature	5/30/2023 14:15	18.47	C
GC-AP-MW-28	TURB	Turbidity	5/30/2023 14:15	1.19	NTU
GC-AP-MW-28	COND	Conductivity	5/30/2023 14:20	37.34	uS/cm
GC-AP-MW-28	DO	DO	5/30/2023 14:20	7.83	mg/L

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-28	DTW	Depth to Water Detail	5/30/2023 14:20	8.77	ft
GC-AP-MW-28	ORP	Oxidation Reduction Potention	5/30/2023 14:20	382.03	mv
GC-AP-MW-28	PH	pH	5/30/2023 14:20	4.8	SU
GC-AP-MW-28	TEMP	Temperature	5/30/2023 14:20	18.49	C
GC-AP-MW-28	TURB	Turbidity	5/30/2023 14:20	1.01	NTU
GC-AP-MW-28	COND	Conductivity	5/30/2023 14:25	36.8	uS/cm
GC-AP-MW-28	DO	DO	5/30/2023 14:25	7.79	mg/L
GC-AP-MW-28	DTW	Depth to Water Detail	5/30/2023 14:25	8.77	ft
GC-AP-MW-28	ORP	Oxidation Reduction Potention	5/30/2023 14:25	376.75	mv
GC-AP-MW-28	PH	pH	5/30/2023 14:25	4.91	SU
GC-AP-MW-28	TEMP	Temperature	5/30/2023 14:25	18.54	C
GC-AP-MW-28	TURB	Turbidity	5/30/2023 14:25	1.04	NTU
GC-AP-MW-28	COND	Conductivity	5/30/2023 14:30	36.09	uS/cm
GC-AP-MW-28	DO	DO	5/30/2023 14:30	7.78	mg/L
GC-AP-MW-28	DTW	Depth to Water Detail	5/30/2023 14:30	8.77	ft
GC-AP-MW-28	ORP	Oxidation Reduction Potention	5/30/2023 14:30	370.58	mv
GC-AP-MW-28	PH	pH	5/30/2023 14:30	5.03	SU
GC-AP-MW-28	TEMP	Temperature	5/30/2023 14:30	18.45	C
GC-AP-MW-28	TURB	Turbidity	5/30/2023 14:30	1.03	NTU
GC-AP-MW-28	COND	Conductivity	5/30/2023 14:35	35.83	uS/cm
GC-AP-MW-28	DO	DO	5/30/2023 14:35	7.77	mg/L
GC-AP-MW-28	DTW	Depth to Water Detail	5/30/2023 14:35	8.77	ft
GC-AP-MW-28	ORP	Oxidation Reduction Potention	5/30/2023 14:35	371.49	mv
GC-AP-MW-28	PH	pH	5/30/2023 14:35	5.04	SU
GC-AP-MW-28	SULFIDE	Sulfide	5/30/2023 14:35	0	mg/L
GC-AP-MW-28	TEMP	Temperature	5/30/2023 14:35	18.41	C
GC-AP-MW-28	TURB	Turbidity	5/30/2023 14:35	1.04	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-27	COND	Conductivity	5/30/2023 15:09	27.4	uS/cm
GC-AP-MW-27	DO	DO	5/30/2023 15:09	6.8	mg/L
GC-AP-MW-27	DTW	Depth to Water Detail	5/30/2023 15:09	9.18	ft
GC-AP-MW-27	ORP	Oxidation Reduction Potention	5/30/2023 15:09	393.41	mv
GC-AP-MW-27	PH	pH	5/30/2023 15:09	4.16	SU
GC-AP-MW-27	TEMP	Temperature	5/30/2023 15:09	19.1	C
GC-AP-MW-27	TURB	Turbidity	5/30/2023 15:09	1.23	NTU
GC-AP-MW-27	COND	Conductivity	5/30/2023 15:14	31.64	uS/cm
GC-AP-MW-27	DO	DO	5/30/2023 15:14	6.64	mg/L
GC-AP-MW-27	DTW	Depth to Water Detail	5/30/2023 15:14	9.18	ft
GC-AP-MW-27	ORP	Oxidation Reduction Potention	5/30/2023 15:14	395.7	mv
GC-AP-MW-27	PH	pH	5/30/2023 15:14	4.34	SU
GC-AP-MW-27	TEMP	Temperature	5/30/2023 15:14	19.11	C
GC-AP-MW-27	TURB	Turbidity	5/30/2023 15:14	0.93	NTU
GC-AP-MW-27	COND	Conductivity	5/30/2023 15:19	32.87	uS/cm
GC-AP-MW-27	DO	DO	5/30/2023 15:19	6.56	mg/L
GC-AP-MW-27	DTW	Depth to Water Detail	5/30/2023 15:19	9.18	ft
GC-AP-MW-27	ORP	Oxidation Reduction Potention	5/30/2023 15:19	390.95	mv
GC-AP-MW-27	PH	pH	5/30/2023 15:19	4.53	SU
GC-AP-MW-27	TEMP	Temperature	5/30/2023 15:19	19.08	C
GC-AP-MW-27	TURB	Turbidity	5/30/2023 15:19	0.91	NTU
GC-AP-MW-27	COND	Conductivity	5/30/2023 15:24	33.34	uS/cm
GC-AP-MW-27	DO	DO	5/30/2023 15:24	6.52	mg/L
GC-AP-MW-27	DTW	Depth to Water Detail	5/30/2023 15:24	9.18	ft
GC-AP-MW-27	ORP	Oxidation Reduction Potention	5/30/2023 15:24	386.13	mv
GC-AP-MW-27	PH	pH	5/30/2023 15:24	4.61	SU
GC-AP-MW-27	TEMP	Temperature	5/30/2023 15:24	19.05	C
GC-AP-MW-27	TURB	Turbidity	5/30/2023 15:24	1.5	NTU
GC-AP-MW-27	COND	Conductivity	5/30/2023 15:29	33.85	uS/cm
GC-AP-MW-27	DO	DO	5/30/2023 15:29	6.49	mg/L
GC-AP-MW-27	DTW	Depth to Water Detail	5/30/2023 15:29	9.18	ft
GC-AP-MW-27	ORP	Oxidation Reduction Potention	5/30/2023 15:29	377.38	mv
GC-AP-MW-27	PH	pH	5/30/2023 15:29	4.65	SU
GC-AP-MW-27	TEMP	Temperature	5/30/2023 15:29	19.01	C
GC-AP-MW-27	TURB	Turbidity	5/30/2023 15:29	1.28	NTU



**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-26	COND	Conductivity	5/30/2023 16:03	78.88	uS/cm
GC-AP-MW-26	DO	DO	5/30/2023 16:03	2.47	mg/L
GC-AP-MW-26	DTW	Depth to Water Detail	5/30/2023 16:03	7.42	ft
GC-AP-MW-26	ORP	Oxidation Reduction Potention	5/30/2023 16:03	307.39	mv
GC-AP-MW-26	PH	pH	5/30/2023 16:03	4.99	SU
GC-AP-MW-26	TEMP	Temperature	5/30/2023 16:03	18.22	C
GC-AP-MW-26	TURB	Turbidity	5/30/2023 16:03	1.99	NTU
GC-AP-MW-26	COND	Conductivity	5/30/2023 16:08	77.12	uS/cm
GC-AP-MW-26	DO	DO	5/30/2023 16:08	2.45	mg/L
GC-AP-MW-26	DTW	Depth to Water Detail	5/30/2023 16:08	7.42	ft
GC-AP-MW-26	ORP	Oxidation Reduction Potention	5/30/2023 16:08	321.79	mv
GC-AP-MW-26	PH	pH	5/30/2023 16:08	4.99	SU
GC-AP-MW-26	TEMP	Temperature	5/30/2023 16:08	18.2	C
GC-AP-MW-26	TURB	Turbidity	5/30/2023 16:08	1.39	NTU
GC-AP-MW-26	COND	Conductivity	5/30/2023 16:13	76.75	uS/cm
GC-AP-MW-26	DO	DO	5/30/2023 16:13	2.46	mg/L
GC-AP-MW-26	DTW	Depth to Water Detail	5/30/2023 16:13	7.42	ft
GC-AP-MW-26	ORP	Oxidation Reduction Potention	5/30/2023 16:13	325.9	mv
GC-AP-MW-26	PH	pH	5/30/2023 16:13	5.02	SU
GC-AP-MW-26	TEMP	Temperature	5/30/2023 16:13	18.17	C
GC-AP-MW-26	TURB	Turbidity	5/30/2023 16:13	1.09	NTU
GC-AP-MW-26	COND	Conductivity	5/30/2023 16:18	76.31	uS/cm
GC-AP-MW-26	DO	DO	5/30/2023 16:18	2.45	mg/L
GC-AP-MW-26	DTW	Depth to Water Detail	5/30/2023 16:18	7.42	ft
GC-AP-MW-26	ORP	Oxidation Reduction Potention	5/30/2023 16:18	328.58	mv
GC-AP-MW-26	PH	pH	5/30/2023 16:18	5.07	SU
GC-AP-MW-26	SULFIDE	Sulfide	5/30/2023 16:18	0	mg/L
GC-AP-MW-26	TEMP	Temperature	5/30/2023 16:18	18.17	C
GC-AP-MW-26	TURB	Turbidity	5/30/2023 16:18	1.02	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-16	COND	Conductivity	5/31/2023 8:18	795.28	uS/cm
GC-AP-MW-16	DO	DO	5/31/2023 8:18	0.28	mg/L
GC-AP-MW-16	DTW	Depth to Water Detail	5/31/2023 8:18	34.04	ft
GC-AP-MW-16	ORP	Oxidation Reduction Potention	5/31/2023 8:18	-14.48	mv
GC-AP-MW-16	PH	pH	5/31/2023 8:18	6.45	SU
GC-AP-MW-16	TEMP	Temperature	5/31/2023 8:18	19.55	C
GC-AP-MW-16	TURB	Turbidity	5/31/2023 8:18	22.7	NTU
GC-AP-MW-16	COND	Conductivity	5/31/2023 8:23	797.41	uS/cm
GC-AP-MW-16	DO	DO	5/31/2023 8:23	0.27	mg/L
GC-AP-MW-16	DTW	Depth to Water Detail	5/31/2023 8:23	34.04	ft
GC-AP-MW-16	ORP	Oxidation Reduction Potention	5/31/2023 8:23	-17.83	mv
GC-AP-MW-16	PH	pH	5/31/2023 8:23	6.47	SU
GC-AP-MW-16	TEMP	Temperature	5/31/2023 8:23	19.54	C
GC-AP-MW-16	TURB	Turbidity	5/31/2023 8:23	18.1	NTU
GC-AP-MW-16	COND	Conductivity	5/31/2023 8:28	796.44	uS/cm
GC-AP-MW-16	DO	DO	5/31/2023 8:28	0.26	mg/L
GC-AP-MW-16	DTW	Depth to Water Detail	5/31/2023 8:28	34.04	ft
GC-AP-MW-16	ORP	Oxidation Reduction Potention	5/31/2023 8:28	-20.21	mv
GC-AP-MW-16	PH	pH	5/31/2023 8:28	6.49	SU
GC-AP-MW-16	TEMP	Temperature	5/31/2023 8:28	19.53	C
GC-AP-MW-16	TURB	Turbidity	5/31/2023 8:28	11.62	NTU
GC-AP-MW-16	COND	Conductivity	5/31/2023 8:33	803.71	uS/cm
GC-AP-MW-16	DO	DO	5/31/2023 8:33	0.23	mg/L
GC-AP-MW-16	DTW	Depth to Water Detail	5/31/2023 8:33	34.04	ft
GC-AP-MW-16	ORP	Oxidation Reduction Potention	5/31/2023 8:33	-22.19	mv
GC-AP-MW-16	PH	pH	5/31/2023 8:33	6.51	SU
GC-AP-MW-16	TEMP	Temperature	5/31/2023 8:33	19.48	C
GC-AP-MW-16	TURB	Turbidity	5/31/2023 8:33	10.82	NTU
GC-AP-MW-16	COND	Conductivity	5/31/2023 8:38	805.3	uS/cm
GC-AP-MW-16	DO	DO	5/31/2023 8:38	0.22	mg/L
GC-AP-MW-16	DTW	Depth to Water Detail	5/31/2023 8:38	34.04	ft
GC-AP-MW-16	ORP	Oxidation Reduction Potention	5/31/2023 8:38	-24.04	mv
GC-AP-MW-16	PH	pH	5/31/2023 8:38	6.52	SU
GC-AP-MW-16	SULFIDE	Sulfide	5/31/2023 8:38	0	mg/L
GC-AP-MW-16	TEMP	Temperature	5/31/2023 8:38	19.53	C
GC-AP-MW-16	TURB	Turbidity	5/31/2023 8:38	7.7	NTU

## Field Parameters Summary Greene County Ash Pond

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-40H	COND	Conductivity	5/31/2023 9:13	502.3	uS/cm
GC-AP-MW-40H	DO	DO	5/31/2023 9:13	0.4	mg/L
GC-AP-MW-40H	DTW	Depth to Water Detail	5/31/2023 9:13	13.19	ft
GC-AP-MW-40H	ORP	Oxidation Reduction Potention	5/31/2023 9:13	75.83	mv
GC-AP-MW-40H	PH	pH	5/31/2023 9:13	5.79	SU
GC-AP-MW-40H	TEMP	Temperature	5/31/2023 9:13	18.39	C
GC-AP-MW-40H	TURB	Turbidity	5/31/2023 9:13	6.47	NTU
GC-AP-MW-40H	COND	Conductivity	5/31/2023 9:18	491.55	uS/cm
GC-AP-MW-40H	DO	DO	5/31/2023 9:18	0.34	mg/L
GC-AP-MW-40H	DTW	Depth to Water Detail	5/31/2023 9:18	13.19	ft
GC-AP-MW-40H	ORP	Oxidation Reduction Potention	5/31/2023 9:18	76.08	mv
GC-AP-MW-40H	PH	pH	5/31/2023 9:18	5.92	SU
GC-AP-MW-40H	TEMP	Temperature	5/31/2023 9:18	18.45	C
GC-AP-MW-40H	TURB	Turbidity	5/31/2023 9:18	5.21	NTU
GC-AP-MW-40H	COND	Conductivity	5/31/2023 9:23	417.23	uS/cm
GC-AP-MW-40H	DO	DO	5/31/2023 9:23	0.32	mg/L
GC-AP-MW-40H	DTW	Depth to Water Detail	5/31/2023 9:23	13.19	ft
GC-AP-MW-40H	ORP	Oxidation Reduction Potention	5/31/2023 9:23	76.51	mv
GC-AP-MW-40H	PH	pH	5/31/2023 9:23	5.99	SU
GC-AP-MW-40H	TEMP	Temperature	5/31/2023 9:23	18.51	C
GC-AP-MW-40H	TURB	Turbidity	5/31/2023 9:23	3.16	NTU
GC-AP-MW-40H	COND	Conductivity	5/31/2023 9:28	623.5	uS/cm
GC-AP-MW-40H	DO	DO	5/31/2023 9:28	0.3	mg/L
GC-AP-MW-40H	DTW	Depth to Water Detail	5/31/2023 9:28	13.19	ft
GC-AP-MW-40H	ORP	Oxidation Reduction Potention	5/31/2023 9:28	77.63	mv
GC-AP-MW-40H	PH	pH	5/31/2023 9:28	6.01	SU
GC-AP-MW-40H	TEMP	Temperature	5/31/2023 9:28	18.43	C
GC-AP-MW-40H	TURB	Turbidity	5/31/2023 9:28	4.7	NTU
GC-AP-MW-40H	COND	Conductivity	5/31/2023 9:33	636.9	uS/cm
GC-AP-MW-40H	DO	DO	5/31/2023 9:33	0.27	mg/L
GC-AP-MW-40H	DTW	Depth to Water Detail	5/31/2023 9:33	13.19	ft
GC-AP-MW-40H	ORP	Oxidation Reduction Potention	5/31/2023 9:33	80.04	mv
GC-AP-MW-40H	PH	pH	5/31/2023 9:33	6.01	SU
GC-AP-MW-40H	TEMP	Temperature	5/31/2023 9:33	18.46	C
GC-AP-MW-40H	TURB	Turbidity	5/31/2023 9:33	2.09	NTU
GC-AP-MW-40H	COND	Conductivity	5/31/2023 9:38	646.33	uS/cm
GC-AP-MW-40H	DO	DO	5/31/2023 9:38	0.3	mg/L
GC-AP-MW-40H	DTW	Depth to Water Detail	5/31/2023 9:38	13.19	ft
GC-AP-MW-40H	ORP	Oxidation Reduction Potention	5/31/2023 9:38	80.49	mv
GC-AP-MW-40H	PH	pH	5/31/2023 9:38	6.01	SU
GC-AP-MW-40H	SULFIDE	Sulfide	5/31/2023 9:38	0	mg/L
GC-AP-MW-40H	TEMP	Temperature	5/31/2023 9:38	18.43	C
GC-AP-MW-40H	TURB	Turbidity	5/31/2023 9:38	2.98	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-34HA	COND	Conductivity	5/31/2023 10:38	168.92	uS/cm
GC-AP-MW-34HA	DO	DO	5/31/2023 10:38	1.95	mg/L
GC-AP-MW-34HA	DTW	Depth to Water Detail	5/31/2023 10:38	23.02	ft
GC-AP-MW-34HA	ORP	Oxidation Reduction Potention	5/31/2023 10:38	133.57	mv
GC-AP-MW-34HA	PH	pH	5/31/2023 10:38	5.62	SU
GC-AP-MW-34HA	TEMP	Temperature	5/31/2023 10:38	21.3	C
GC-AP-MW-34HA	TURB	Turbidity	5/31/2023 10:38	1.59	NTU
GC-AP-MW-34HA	COND	Conductivity	5/31/2023 10:43	169.88	uS/cm
GC-AP-MW-34HA	DO	DO	5/31/2023 10:43	1.82	mg/L
GC-AP-MW-34HA	DTW	Depth to Water Detail	5/31/2023 10:43	23.02	ft
GC-AP-MW-34HA	ORP	Oxidation Reduction Potention	5/31/2023 10:43	150.59	mv
GC-AP-MW-34HA	PH	pH	5/31/2023 10:43	5.63	SU
GC-AP-MW-34HA	TEMP	Temperature	5/31/2023 10:43	21.36	C
GC-AP-MW-34HA	TURB	Turbidity	5/31/2023 10:43	1.35	NTU
GC-AP-MW-34HA	COND	Conductivity	5/31/2023 10:48	170.27	uS/cm
GC-AP-MW-34HA	DO	DO	5/31/2023 10:48	1.77	mg/L
GC-AP-MW-34HA	DTW	Depth to Water Detail	5/31/2023 10:48	23.02	ft
GC-AP-MW-34HA	ORP	Oxidation Reduction Potention	5/31/2023 10:48	164.09	mv
GC-AP-MW-34HA	PH	pH	5/31/2023 10:48	5.63	SU
GC-AP-MW-34HA	TEMP	Temperature	5/31/2023 10:48	21.39	C
GC-AP-MW-34HA	TURB	Turbidity	5/31/2023 10:48	1.37	NTU
GC-AP-MW-34HA	COND	Conductivity	5/31/2023 10:53	170.55	uS/cm
GC-AP-MW-34HA	DO	DO	5/31/2023 10:53	1.75	mg/L
GC-AP-MW-34HA	DTW	Depth to Water Detail	5/31/2023 10:53	23.02	ft
GC-AP-MW-34HA	ORP	Oxidation Reduction Potention	5/31/2023 10:53	175.87	mv
GC-AP-MW-34HA	PH	pH	5/31/2023 10:53	5.63	SU
GC-AP-MW-34HA	SULFIDE	Sulfide	5/31/2023 10:53	0	mg/L
GC-AP-MW-34HA	TEMP	Temperature	5/31/2023 10:53	21.48	C
GC-AP-MW-34HA	TURB	Turbidity	5/31/2023 10:53	1.22	NTU

## Field Parameters Summary Greene County Ash Pond

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-6	COND	Conductivity	5/30/2023 14:14	991.63	uS/cm
GC-AP-MW-6	DO	DO	5/30/2023 14:14	0.93	mg/L
GC-AP-MW-6	DTW	Depth to Water Detail	5/30/2023 14:14	13.85	ft
GC-AP-MW-6	ORP	Oxidation Reduction Potention	5/30/2023 14:14	58.27	mv
GC-AP-MW-6	PH	pH	5/30/2023 14:14	6.45	SU
GC-AP-MW-6	TEMP	Temperature	5/30/2023 14:14	20.51	C
GC-AP-MW-6	TURB	Turbidity	5/30/2023 14:14	0.86	NTU
GC-AP-MW-6	COND	Conductivity	5/30/2023 14:19	1110.62	uS/cm
GC-AP-MW-6	DO	DO	5/30/2023 14:19	0.62	mg/L
GC-AP-MW-6	DTW	Depth to Water Detail	5/30/2023 14:19	13.85	ft
GC-AP-MW-6	ORP	Oxidation Reduction Potention	5/30/2023 14:19	64.84	mv
GC-AP-MW-6	PH	pH	5/30/2023 14:19	6.47	SU
GC-AP-MW-6	TEMP	Temperature	5/30/2023 14:19	20.41	C
GC-AP-MW-6	TURB	Turbidity	5/30/2023 14:19	0.23	NTU
GC-AP-MW-6	COND	Conductivity	5/30/2023 14:24	1137.99	uS/cm
GC-AP-MW-6	DO	DO	5/30/2023 14:24	0.56	mg/L
GC-AP-MW-6	DTW	Depth to Water Detail	5/30/2023 14:24	13.85	ft
GC-AP-MW-6	ORP	Oxidation Reduction Potention	5/30/2023 14:24	64.15	mv
GC-AP-MW-6	PH	pH	5/30/2023 14:24	6.49	SU
GC-AP-MW-6	TEMP	Temperature	5/30/2023 14:24	20.76	C
GC-AP-MW-6	TURB	Turbidity	5/30/2023 14:24	0.01	NTU
GC-AP-MW-6	COND	Conductivity	5/30/2023 14:29	1144.28	uS/cm
GC-AP-MW-6	DO	DO	5/30/2023 14:29	0.52	mg/L
GC-AP-MW-6	DTW	Depth to Water Detail	5/30/2023 14:29	13.85	ft
GC-AP-MW-6	ORP	Oxidation Reduction Potention	5/30/2023 14:29	44.26	mv
GC-AP-MW-6	PH	pH	5/30/2023 14:29	6.5	SU
GC-AP-MW-6	SULFIDE	Sulfide	5/30/2023 14:29	0	mg/L
GC-AP-MW-6	TEMP	Temperature	5/30/2023 14:29	20.43	C
GC-AP-MW-6	TURB	Turbidity	5/30/2023 14:29	0.16	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-7	COND	Conductivity	5/30/2023 14:53	1502.07	uS/cm
GC-AP-MW-7	DO	DO	5/30/2023 14:53	0.63	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	5/30/2023 14:53	12.76	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potention	5/30/2023 14:53	66.06	mv
GC-AP-MW-7	PH	pH	5/30/2023 14:53	6.4	SU
GC-AP-MW-7	TEMP	Temperature	5/30/2023 14:53	19.2	C
GC-AP-MW-7	TURB	Turbidity	5/30/2023 14:53	0.73	NTU
GC-AP-MW-7	COND	Conductivity	5/30/2023 14:58	1487.21	uS/cm
GC-AP-MW-7	DO	DO	5/30/2023 14:58	0.47	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	5/30/2023 14:58	12.76	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potention	5/30/2023 14:58	71.77	mv
GC-AP-MW-7	PH	pH	5/30/2023 14:58	6.41	SU
GC-AP-MW-7	TEMP	Temperature	5/30/2023 14:58	19.42	C
GC-AP-MW-7	TURB	Turbidity	5/30/2023 14:58	1.22	NTU
GC-AP-MW-7	COND	Conductivity	5/30/2023 15:03	1484.48	uS/cm
GC-AP-MW-7	DO	DO	5/30/2023 15:03	0.4	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	5/30/2023 15:03	12.76	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potention	5/30/2023 15:03	74.24	mv
GC-AP-MW-7	PH	pH	5/30/2023 15:03	6.41	SU
GC-AP-MW-7	TEMP	Temperature	5/30/2023 15:03	19.39	C
GC-AP-MW-7	TURB	Turbidity	5/30/2023 15:03	1.33	NTU
GC-AP-MW-7	COND	Conductivity	5/30/2023 15:08	1482.66	uS/cm
GC-AP-MW-7	DO	DO	5/30/2023 15:08	0.37	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	5/30/2023 15:08	12.76	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potention	5/30/2023 15:08	75.18	mv
GC-AP-MW-7	PH	pH	5/30/2023 15:08	6.42	SU
GC-AP-MW-7	SULFIDE	Sulfide	5/30/2023 15:08	0	mg/L
GC-AP-MW-7	TEMP	Temperature	5/30/2023 15:08	19.27	C
GC-AP-MW-7	TURB	Turbidity	5/30/2023 15:08	1.52	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-8	COND	Conductivity	5/30/2023 15:31	1168.46	uS/cm
GC-AP-MW-8	DO	DO	5/30/2023 15:31	0.67	mg/L
GC-AP-MW-8	DTW	Depth to Water Detail	5/30/2023 15:31	12.08	ft
GC-AP-MW-8	ORP	Oxidation Reduction Potention	5/30/2023 15:31	40.29	mv
GC-AP-MW-8	PH	pH	5/30/2023 15:31	6.66	SU
GC-AP-MW-8	TEMP	Temperature	5/30/2023 15:31	19.65	C
GC-AP-MW-8	TURB	Turbidity	5/30/2023 15:31	0.28	NTU
GC-AP-MW-8	COND	Conductivity	5/30/2023 15:36	1105.55	uS/cm
GC-AP-MW-8	DO	DO	5/30/2023 15:36	0.48	mg/L
GC-AP-MW-8	DTW	Depth to Water Detail	5/30/2023 15:36	12.08	ft
GC-AP-MW-8	ORP	Oxidation Reduction Potention	5/30/2023 15:36	37.22	mv
GC-AP-MW-8	PH	pH	5/30/2023 15:36	6.64	SU
GC-AP-MW-8	TEMP	Temperature	5/30/2023 15:36	19.55	C
GC-AP-MW-8	TURB	Turbidity	5/30/2023 15:36	0.13	NTU
GC-AP-MW-8	COND	Conductivity	5/30/2023 15:41	1081.37	uS/cm
GC-AP-MW-8	DO	DO	5/30/2023 15:41	0.41	mg/L
GC-AP-MW-8	DTW	Depth to Water Detail	5/30/2023 15:41	12.08	ft
GC-AP-MW-8	ORP	Oxidation Reduction Potention	5/30/2023 15:41	35.33	mv
GC-AP-MW-8	PH	pH	5/30/2023 15:41	6.63	SU
GC-AP-MW-8	TEMP	Temperature	5/30/2023 15:41	19.55	C
GC-AP-MW-8	TURB	Turbidity	5/30/2023 15:41	0.19	NTU
GC-AP-MW-8	COND	Conductivity	5/30/2023 15:46	1065.39	uS/cm
GC-AP-MW-8	DO	DO	5/30/2023 15:46	0.37	mg/L
GC-AP-MW-8	DTW	Depth to Water Detail	5/30/2023 15:46	12.08	ft
GC-AP-MW-8	ORP	Oxidation Reduction Potention	5/30/2023 15:46	35.42	mv
GC-AP-MW-8	PH	pH	5/30/2023 15:46	6.62	SU
GC-AP-MW-8	SULFIDE	Sulfide	5/30/2023 15:46	0	mg/L
GC-AP-MW-8	TEMP	Temperature	5/30/2023 15:46	19.56	C
GC-AP-MW-8	TURB	Turbidity	5/30/2023 15:46	0.16	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-9	COND	Conductivity	5/30/2023 16:09	1027.09	uS/cm
GC-AP-MW-9	DO	DO	5/30/2023 16:09	0.44	mg/L
GC-AP-MW-9	DTW	Depth to Water Detail	5/30/2023 16:09	9.67	ft
GC-AP-MW-9	ORP	Oxidation Reduction Potention	5/30/2023 16:09	-64.64	mv
GC-AP-MW-9	PH	pH	5/30/2023 16:09	6.42	SU
GC-AP-MW-9	TEMP	Temperature	5/30/2023 16:09	19.66	C
GC-AP-MW-9	TURB	Turbidity	5/30/2023 16:09	0.18	NTU
GC-AP-MW-9	COND	Conductivity	5/30/2023 16:14	1011.38	uS/cm
GC-AP-MW-9	DO	DO	5/30/2023 16:14	0.34	mg/L
GC-AP-MW-9	DTW	Depth to Water Detail	5/30/2023 16:14	9.67	ft
GC-AP-MW-9	ORP	Oxidation Reduction Potention	5/30/2023 16:14	-53.16	mv
GC-AP-MW-9	PH	pH	5/30/2023 16:14	6.39	SU
GC-AP-MW-9	TEMP	Temperature	5/30/2023 16:14	19.75	C
GC-AP-MW-9	TURB	Turbidity	5/30/2023 16:14	0.31	NTU
GC-AP-MW-9	COND	Conductivity	5/30/2023 16:19	1017.67	uS/cm
GC-AP-MW-9	DO	DO	5/30/2023 16:19	0.3	mg/L
GC-AP-MW-9	DTW	Depth to Water Detail	5/30/2023 16:19	9.67	ft
GC-AP-MW-9	ORP	Oxidation Reduction Potention	5/30/2023 16:19	-53.8	mv
GC-AP-MW-9	PH	pH	5/30/2023 16:19	6.38	SU
GC-AP-MW-9	TEMP	Temperature	5/30/2023 16:19	19.8	C
GC-AP-MW-9	TURB	Turbidity	5/30/2023 16:19	0.15	NTU
GC-AP-MW-9	COND	Conductivity	5/30/2023 16:24	1013.88	uS/cm
GC-AP-MW-9	DO	DO	5/30/2023 16:24	0.29	mg/L
GC-AP-MW-9	DTW	Depth to Water Detail	5/30/2023 16:24	9.67	ft
GC-AP-MW-9	ORP	Oxidation Reduction Potention	5/30/2023 16:24	-51.21	mv
GC-AP-MW-9	PH	pH	5/30/2023 16:24	6.38	SU
GC-AP-MW-9	SULFIDE	Sulfide	5/30/2023 16:24	0	mg/L
GC-AP-MW-9	TEMP	Temperature	5/30/2023 16:24	19.75	C
GC-AP-MW-9	TURB	Turbidity	5/30/2023 16:24	0.12	NTU



## Field Parameters Summary Greene County Ash Pond

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-25	COND	Conductivity	5/30/2023 17:00	329.78	uS/cm
GC-AP-MW-25	DO	DO	5/30/2023 17:00	0.77	mg/L
GC-AP-MW-25	DTW	Depth to Water Detail	5/30/2023 17:00	15.38	ft
GC-AP-MW-25	ORP	Oxidation Reduction Potention	5/30/2023 17:00	136.91	mv
GC-AP-MW-25	PH	pH	5/30/2023 17:00	5.25	SU
GC-AP-MW-25	TEMP	Temperature	5/30/2023 17:00	20.82	C
GC-AP-MW-25	TURB	Turbidity	5/30/2023 17:00	0.42	NTU
GC-AP-MW-25	COND	Conductivity	5/30/2023 17:05	323.94	uS/cm
GC-AP-MW-25	DO	DO	5/30/2023 17:05	0.61	mg/L
GC-AP-MW-25	DTW	Depth to Water Detail	5/30/2023 17:05	15.38	ft
GC-AP-MW-25	ORP	Oxidation Reduction Potention	5/30/2023 17:05	149.88	mv
GC-AP-MW-25	PH	pH	5/30/2023 17:05	5.26	SU
GC-AP-MW-25	TEMP	Temperature	5/30/2023 17:05	20.81	C
GC-AP-MW-25	TURB	Turbidity	5/30/2023 17:05	0.38	NTU
GC-AP-MW-25	COND	Conductivity	5/30/2023 17:10	316.3	uS/cm
GC-AP-MW-25	DO	DO	5/30/2023 17:10	0.56	mg/L
GC-AP-MW-25	DTW	Depth to Water Detail	5/30/2023 17:10	15.38	ft
GC-AP-MW-25	ORP	Oxidation Reduction Potention	5/30/2023 17:10	152.17	mv
GC-AP-MW-25	PH	pH	5/30/2023 17:10	5.33	SU
GC-AP-MW-25	TEMP	Temperature	5/30/2023 17:10	20.83	C
GC-AP-MW-25	TURB	Turbidity	5/30/2023 17:10	0.45	NTU
GC-AP-MW-25	COND	Conductivity	5/30/2023 17:15	322.91	uS/cm
GC-AP-MW-25	DO	DO	5/30/2023 17:15	0.55	mg/L
GC-AP-MW-25	DTW	Depth to Water Detail	5/30/2023 17:15	15.38	ft
GC-AP-MW-25	ORP	Oxidation Reduction Potention	5/30/2023 17:15	146.91	mv
GC-AP-MW-25	PH	pH	5/30/2023 17:15	5.45	SU
GC-AP-MW-25	SULFIDE	Sulfide	5/30/2023 17:15	0	mg/L
GC-AP-MW-25	TEMP	Temperature	5/30/2023 17:15	20.83	C
GC-AP-MW-25	TURB	Turbidity	5/30/2023 17:15	0.46	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-53H	COND	Conductivity	5/30/2023 12:09	723	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 12:09	0.3	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 12:09	10.25	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 12:09	-93.45	mv
GC-AP-MW-53H	PH	pH	5/30/2023 12:09	6.64	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 12:09	20.48	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 12:09	99	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 12:14	718.71	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 12:14	0.17	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 12:14	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 12:14	-120.36	mv
GC-AP-MW-53H	PH	pH	5/30/2023 12:14	6.64	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 12:14	20.65	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 12:14	99	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 12:19	715.92	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 12:19	0.14	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 12:19	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 12:19	-125.22	mv
GC-AP-MW-53H	PH	pH	5/30/2023 12:19	6.64	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 12:19	20.79	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 12:19	99	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 12:24	715.08	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 12:24	0.13	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 12:24	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 12:24	-128.63	mv
GC-AP-MW-53H	PH	pH	5/30/2023 12:24	6.63	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 12:24	21.08	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 12:24	99	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 12:29	714.35	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 12:29	0.12	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 12:29	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 12:29	-131.15	mv
GC-AP-MW-53H	PH	pH	5/30/2023 12:29	6.63	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 12:29	20.99	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 12:29	99	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 12:34	716.69	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 12:34	0.13	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 12:34	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 12:34	-132.98	mv
GC-AP-MW-53H	PH	pH	5/30/2023 12:34	6.63	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 12:34	21.7	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 12:34	48.6	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 12:39	717.69	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 12:39	0.13	mg/L

## Field Parameters Summary Greene County Ash Pond

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 12:39	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 12:39	-132.65	mv
GC-AP-MW-53H	PH	pH	5/30/2023 12:39	6.63	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 12:39	22.15	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 12:39	48	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 12:44	718.98	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 12:44	0.13	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 12:44	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 12:44	-133.08	mv
GC-AP-MW-53H	PH	pH	5/30/2023 12:44	6.62	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 12:44	22.36	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 12:44	43.5	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 12:49	714.23	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 12:49	0.13	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 12:49	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 12:49	-133.7	mv
GC-AP-MW-53H	PH	pH	5/30/2023 12:49	6.63	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 12:49	22.2	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 12:49	32.7	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 12:54	715.57	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 12:54	0.14	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 12:54	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 12:54	-133.72	mv
GC-AP-MW-53H	PH	pH	5/30/2023 12:54	6.63	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 12:54	22.61	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 12:54	25.4	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 12:59	715.07	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 12:59	0.15	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 12:59	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 12:59	-132.25	mv
GC-AP-MW-53H	PH	pH	5/30/2023 12:59	6.63	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 12:59	22.81	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 12:59	23.7	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 13:04	718.63	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 13:04	0.07	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 13:04	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 13:04	-135.55	mv
GC-AP-MW-53H	PH	pH	5/30/2023 13:04	6.66	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 13:04	20.43	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 13:04	30.1	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 13:09	721.67	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 13:09	0.06	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 13:09	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 13:09	-138.42	mv

## Field Parameters Summary Greene County Ash Pond

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-53H	PH	pH	5/30/2023 13:09	6.64	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 13:09	20.61	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 13:09	71.4	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 13:14	723.1	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 13:14	0.06	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 13:14	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 13:14	-140.95	mv
GC-AP-MW-53H	PH	pH	5/30/2023 13:14	6.65	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 13:14	20.55	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 13:14	48.2	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 13:19	723.01	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 13:19	0.06	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 13:19	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 13:19	-142.14	mv
GC-AP-MW-53H	PH	pH	5/30/2023 13:19	6.66	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 13:19	20.61	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 13:19	29.5	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 13:24	722.45	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 13:24	0.06	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 13:24	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 13:24	-142.65	mv
GC-AP-MW-53H	PH	pH	5/30/2023 13:24	6.66	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 13:24	20.71	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 13:24	19	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 13:29	720.2	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 13:29	0.07	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 13:29	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 13:29	-142.26	mv
GC-AP-MW-53H	PH	pH	5/30/2023 13:29	6.65	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 13:29	20.78	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 13:29	15.3	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 13:34	720.25	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 13:34	0.07	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 13:34	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 13:34	-142.83	mv
GC-AP-MW-53H	PH	pH	5/30/2023 13:34	6.65	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 13:34	20.93	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 13:34	12.1	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 13:39	719.67	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 13:39	0.07	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 13:39	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 13:39	-142.74	mv
GC-AP-MW-53H	PH	pH	5/30/2023 13:39	6.66	SU
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 13:39	20.72	C

**Field Parameters Summary  
Greene County Ash Pond**

<b>WELL ID</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 13:39	10.79	NTU
GC-AP-MW-53H	COND	Conductivity	5/30/2023 13:44	721.16	uS/cm
GC-AP-MW-53H	DO	DO	5/30/2023 13:44	0.07	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	5/30/2023 13:44	11.5	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potention	5/30/2023 13:44	-142.92	mv
GC-AP-MW-53H	PH	pH	5/30/2023 13:44	6.66	SU
GC-AP-MW-53H	SULFIDE	Sulfide	5/30/2023 13:44	0	mg/L
GC-AP-MW-53H	TEMP	Temperature	5/30/2023 13:44	21	C
GC-AP-MW-53H	TURB	Turbidity	5/30/2023 13:44	9.69	NTU

## Field Parameters Summary Greene County Ash Pond

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-31	COND	Conductivity	5/23/2023 8:55	67.58	uS/cm
GC-AP-MW-31	DO	DO	5/23/2023 8:55	1.63	mg/L
GC-AP-MW-31	DTW	Depth to Water Detail	5/23/2023 8:55	6.5	ft
GC-AP-MW-31	ORP	Oxidation Reduction Potention	5/23/2023 8:55	190.04	mv
GC-AP-MW-31	PH	pH	5/23/2023 8:55	5.7	SU
GC-AP-MW-31	TEMP	Temperature	5/23/2023 8:55	17.6	C
GC-AP-MW-31	TURB	Turbidity	5/23/2023 8:55	2.07	NTU
GC-AP-MW-31	COND	Conductivity	5/23/2023 9:00	70.55	uS/cm
GC-AP-MW-31	DO	DO	5/23/2023 9:00	1.68	mg/L
GC-AP-MW-31	DTW	Depth to Water Detail	5/23/2023 9:00	6.5	ft
GC-AP-MW-31	ORP	Oxidation Reduction Potention	5/23/2023 9:00	196.98	mv
GC-AP-MW-31	PH	pH	5/23/2023 9:00	5.68	SU
GC-AP-MW-31	TEMP	Temperature	5/23/2023 9:00	17.62	C
GC-AP-MW-31	TURB	Turbidity	5/23/2023 9:00	1.88	NTU
GC-AP-MW-31	COND	Conductivity	5/23/2023 9:05	70.02	uS/cm
GC-AP-MW-31	DO	DO	5/23/2023 9:05	1.74	mg/L
GC-AP-MW-31	DTW	Depth to Water Detail	5/23/2023 9:05	6.5	ft
GC-AP-MW-31	ORP	Oxidation Reduction Potention	5/23/2023 9:05	194.08	mv
GC-AP-MW-31	PH	pH	5/23/2023 9:05	5.66	SU
GC-AP-MW-31	TEMP	Temperature	5/23/2023 9:05	17.59	C
GC-AP-MW-31	TURB	Turbidity	5/23/2023 9:05	1.82	NTU
GC-AP-MW-31	COND	Conductivity	5/23/2023 9:10	69.02	uS/cm
GC-AP-MW-31	DO	DO	5/23/2023 9:10	1.89	mg/L
GC-AP-MW-31	DTW	Depth to Water Detail	5/23/2023 9:10	6.5	ft
GC-AP-MW-31	ORP	Oxidation Reduction Potention	5/23/2023 9:10	186.56	mv
GC-AP-MW-31	PH	pH	5/23/2023 9:10	5.63	SU
GC-AP-MW-31	TEMP	Temperature	5/23/2023 9:10	17.6	C
GC-AP-MW-31	TURB	Turbidity	5/23/2023 9:10	1.89	NTU
GC-AP-MW-31	COND	Conductivity	5/23/2023 9:15	73.72	uS/cm
GC-AP-MW-31	DO	DO	5/23/2023 9:15	1.76	mg/L
GC-AP-MW-31	DTW	Depth to Water Detail	5/23/2023 9:15	6.5	ft
GC-AP-MW-31	ORP	Oxidation Reduction Potention	5/23/2023 9:15	160.16	mv
GC-AP-MW-31	PH	pH	5/23/2023 9:15	5.69	SU
GC-AP-MW-31	TEMP	Temperature	5/23/2023 9:15	17.65	C
GC-AP-MW-31	TURB	Turbidity	5/23/2023 9:15	1.84	NTU
GC-AP-MW-31	COND	Conductivity	5/23/2023 9:20	72.44	uS/cm
GC-AP-MW-31	DO	DO	5/23/2023 9:20	1.84	mg/L
GC-AP-MW-31	DTW	Depth to Water Detail	5/23/2023 9:20	6.5	ft
GC-AP-MW-31	ORP	Oxidation Reduction Potention	5/23/2023 9:20	130.3	mv
GC-AP-MW-31	PH	pH	5/23/2023 9:20	5.68	SU
GC-AP-MW-31	TEMP	Temperature	5/23/2023 9:20	17.57	C
GC-AP-MW-31	TURB	Turbidity	5/23/2023 9:20	1.8	NTU
GC-AP-MW-31	COND	Conductivity	5/23/2023 9:25	73.71	uS/cm
GC-AP-MW-31	DO	DO	5/23/2023 9:25	1.86	mg/L

**Field Parameters Summary  
Greene County Ash Pond**

<b>WELL ID</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
GC-AP-MW-31	DTW	Depth to Water Detail	5/23/2023 9:25	6.5	ft
GC-AP-MW-31	ORP	Oxidation Reduction Potention	5/23/2023 9:25	91.82	mv
GC-AP-MW-31	PH	pH	5/23/2023 9:25	5.67	SU
GC-AP-MW-31	SULFIDE	Sulfide	5/23/2023 9:25	0	mg/L
GC-AP-MW-31	TEMP	Temperature	5/23/2023 9:25	17.6	C
GC-AP-MW-31	TURB	Turbidity	5/23/2023 9:25	1.81	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-32	COND	Conductivity	5/22/2023 14:36	67.56	uS/cm
GC-AP-MW-32	DO	DO	5/22/2023 14:36	3.71	mg/L
GC-AP-MW-32	DTW	Depth to Water Detail	5/22/2023 14:36	17.45	ft
GC-AP-MW-32	ORP	Oxidation Reduction Potention	5/22/2023 14:36	182.98	mv
GC-AP-MW-32	PH	pH	5/22/2023 14:36	5.98	SU
GC-AP-MW-32	TEMP	Temperature	5/22/2023 14:36	20.32	C
GC-AP-MW-32	TURB	Turbidity	5/22/2023 14:36	3.05	NTU
GC-AP-MW-32	COND	Conductivity	5/22/2023 14:41	69.84	uS/cm
GC-AP-MW-32	DO	DO	5/22/2023 14:41	3.57	mg/L
GC-AP-MW-32	DTW	Depth to Water Detail	5/22/2023 14:41	17.45	ft
GC-AP-MW-32	ORP	Oxidation Reduction Potention	5/22/2023 14:41	184.67	mv
GC-AP-MW-32	PH	pH	5/22/2023 14:41	5.97	SU
GC-AP-MW-32	TEMP	Temperature	5/22/2023 14:41	20.35	C
GC-AP-MW-32	TURB	Turbidity	5/22/2023 14:41	3.44	NTU
GC-AP-MW-32	COND	Conductivity	5/22/2023 14:46	70.78	uS/cm
GC-AP-MW-32	DO	DO	5/22/2023 14:46	3.53	mg/L
GC-AP-MW-32	DTW	Depth to Water Detail	5/22/2023 14:46	17.45	ft
GC-AP-MW-32	ORP	Oxidation Reduction Potention	5/22/2023 14:46	184.69	mv
GC-AP-MW-32	PH	pH	5/22/2023 14:46	5.98	SU
GC-AP-MW-32	TEMP	Temperature	5/22/2023 14:46	20.45	C
GC-AP-MW-32	TURB	Turbidity	5/22/2023 14:46	3.35	NTU
GC-AP-MW-32	COND	Conductivity	5/22/2023 14:51	71.32	uS/cm
GC-AP-MW-32	DO	DO	5/22/2023 14:51	3.53	mg/L
GC-AP-MW-32	DTW	Depth to Water Detail	5/22/2023 14:51	17.45	ft
GC-AP-MW-32	ORP	Oxidation Reduction Potention	5/22/2023 14:51	185.55	mv
GC-AP-MW-32	PH	pH	5/22/2023 14:51	5.98	SU
GC-AP-MW-32	SULFIDE	Sulfide	5/22/2023 14:51	0	mg/L
GC-AP-MW-32	TEMP	Temperature	5/22/2023 14:51	20.4	C
GC-AP-MW-32	TURB	Turbidity	5/22/2023 14:51	2.97	NTU



**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-33	COND	Conductivity	5/22/2023 15:25	102.97	uS/cm
GC-AP-MW-33	DO	DO	5/22/2023 15:25	4.19	mg/L
GC-AP-MW-33	DTW	Depth to Water Detail	5/22/2023 15:25	20.32	ft
GC-AP-MW-33	ORP	Oxidation Reduction Potention	5/22/2023 15:25	263.84	mv
GC-AP-MW-33	PH	pH	5/22/2023 15:25	4.64	SU
GC-AP-MW-33	TEMP	Temperature	5/22/2023 15:25	18.84	C
GC-AP-MW-33	TURB	Turbidity	5/22/2023 15:25	2.41	NTU
GC-AP-MW-33	COND	Conductivity	5/22/2023 15:30	102.8	uS/cm
GC-AP-MW-33	DO	DO	5/22/2023 15:30	4.19	mg/L
GC-AP-MW-33	DTW	Depth to Water Detail	5/22/2023 15:30	20.32	ft
GC-AP-MW-33	ORP	Oxidation Reduction Potention	5/22/2023 15:30	284.99	mv
GC-AP-MW-33	PH	pH	5/22/2023 15:30	4.6	SU
GC-AP-MW-33	TEMP	Temperature	5/22/2023 15:30	18.85	C
GC-AP-MW-33	TURB	Turbidity	5/22/2023 15:30	2.22	NTU
GC-AP-MW-33	COND	Conductivity	5/22/2023 15:35	103.43	uS/cm
GC-AP-MW-33	DO	DO	5/22/2023 15:35	4.21	mg/L
GC-AP-MW-33	DTW	Depth to Water Detail	5/22/2023 15:35	20.32	ft
GC-AP-MW-33	ORP	Oxidation Reduction Potention	5/22/2023 15:35	298.71	mv
GC-AP-MW-33	PH	pH	5/22/2023 15:35	4.58	SU
GC-AP-MW-33	TEMP	Temperature	5/22/2023 15:35	18.87	C
GC-AP-MW-33	TURB	Turbidity	5/22/2023 15:35	1.9	NTU
GC-AP-MW-33	COND	Conductivity	5/22/2023 15:40	102.9	uS/cm
GC-AP-MW-33	DO	DO	5/22/2023 15:40	4.2	mg/L
GC-AP-MW-33	DTW	Depth to Water Detail	5/22/2023 15:40	20.32	ft
GC-AP-MW-33	ORP	Oxidation Reduction Potention	5/22/2023 15:40	308.66	mv
GC-AP-MW-33	PH	pH	5/22/2023 15:40	4.58	SU
GC-AP-MW-33	SULFIDE	Sulfide	5/22/2023 15:40	0	mg/L
GC-AP-MW-33	TEMP	Temperature	5/22/2023 15:40	18.86	C
GC-AP-MW-33	TURB	Turbidity	5/22/2023 15:40	2.17	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-44H	COND	Conductivity	5/16/2023 7:59	779.43	uS/cm
GC-AP-MW-44H	DO	DO	5/16/2023 7:59	0.19	mg/L
GC-AP-MW-44H	DTW	Depth to Water Detail	5/16/2023 7:59	9.65	ft
GC-AP-MW-44H	ORP	Oxidation Reduction Potention	5/16/2023 7:59	-4.39	mv
GC-AP-MW-44H	PH	pH	5/16/2023 7:59	6.33	SU
GC-AP-MW-44H	TEMP	Temperature	5/16/2023 7:59	18.21	C
GC-AP-MW-44H	TURB	Turbidity	5/16/2023 7:59	47.8	NTU
GC-AP-MW-44H	COND	Conductivity	5/16/2023 8:04	772.63	uS/cm
GC-AP-MW-44H	DO	DO	5/16/2023 8:04	0.09	mg/L
GC-AP-MW-44H	DTW	Depth to Water Detail	5/16/2023 8:04	9.65	ft
GC-AP-MW-44H	ORP	Oxidation Reduction Potention	5/16/2023 8:04	-2.33	mv
GC-AP-MW-44H	PH	pH	5/16/2023 8:04	6.2	SU
GC-AP-MW-44H	TEMP	Temperature	5/16/2023 8:04	18.2	C
GC-AP-MW-44H	TURB	Turbidity	5/16/2023 8:04	23.9	NTU
GC-AP-MW-44H	COND	Conductivity	5/16/2023 8:09	770.71	uS/cm
GC-AP-MW-44H	DO	DO	5/16/2023 8:09	0.08	mg/L
GC-AP-MW-44H	DTW	Depth to Water Detail	5/16/2023 8:09	9.65	ft
GC-AP-MW-44H	ORP	Oxidation Reduction Potention	5/16/2023 8:09	-5.46	mv
GC-AP-MW-44H	PH	pH	5/16/2023 8:09	6.18	SU
GC-AP-MW-44H	TEMP	Temperature	5/16/2023 8:09	18.16	C
GC-AP-MW-44H	TURB	Turbidity	5/16/2023 8:09	16	NTU
GC-AP-MW-44H	COND	Conductivity	5/16/2023 8:14	768	uS/cm
GC-AP-MW-44H	DO	DO	5/16/2023 8:14	0.07	mg/L
GC-AP-MW-44H	DTW	Depth to Water Detail	5/16/2023 8:14	9.65	ft
GC-AP-MW-44H	ORP	Oxidation Reduction Potention	5/16/2023 8:14	-10.77	mv
GC-AP-MW-44H	PH	pH	5/16/2023 8:14	6.16	SU
GC-AP-MW-44H	TEMP	Temperature	5/16/2023 8:14	18.16	C
GC-AP-MW-44H	TURB	Turbidity	5/16/2023 8:14	11.61	NTU
GC-AP-MW-44H	COND	Conductivity	5/16/2023 8:19	766.53	uS/cm
GC-AP-MW-44H	DO	DO	5/16/2023 8:19	0.06	mg/L
GC-AP-MW-44H	DTW	Depth to Water Detail	5/16/2023 8:19	9.65	ft
GC-AP-MW-44H	ORP	Oxidation Reduction Potention	5/16/2023 8:19	-16.86	mv
GC-AP-MW-44H	PH	pH	5/16/2023 8:19	6.15	SU
GC-AP-MW-44H	TEMP	Temperature	5/16/2023 8:19	18.11	C
GC-AP-MW-44H	TURB	Turbidity	5/16/2023 8:19	8.37	NTU
GC-AP-MW-44H	COND	Conductivity	5/16/2023 8:24	767.6	uS/cm
GC-AP-MW-44H	DO	DO	5/16/2023 8:24	0.05	mg/L
GC-AP-MW-44H	DTW	Depth to Water Detail	5/16/2023 8:24	9.65	ft
GC-AP-MW-44H	ORP	Oxidation Reduction Potention	5/16/2023 8:24	-22.82	mv
GC-AP-MW-44H	PH	pH	5/16/2023 8:24	6.14	SU
GC-AP-MW-44H	SULFIDE	Sulfide	5/16/2023 8:24	0	mg/L
GC-AP-MW-44H	TEMP	Temperature	5/16/2023 8:24	18.1	C
GC-AP-MW-44H	TURB	Turbidity	5/16/2023 8:24	7.35	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-54H	COND	Conductivity	5/23/2023 14:21	609.87	uS/cm
GC-AP-MW-54H	DO	DO	5/23/2023 14:21	0.1	mg/L
GC-AP-MW-54H	DTW	Depth to Water Detail	5/23/2023 14:21	10.45	ft
GC-AP-MW-54H	ORP	Oxidation Reduction Potention	5/23/2023 14:21	-99.83	mv
GC-AP-MW-54H	PH	pH	5/23/2023 14:21	6.91	SU
GC-AP-MW-54H	TEMP	Temperature	5/23/2023 14:21	18.62	C
GC-AP-MW-54H	TURB	Turbidity	5/23/2023 14:21	15.4	NTU
GC-AP-MW-54H	COND	Conductivity	5/23/2023 14:26	615.85	uS/cm
GC-AP-MW-54H	DO	DO	5/23/2023 14:26	0.07	mg/L
GC-AP-MW-54H	DTW	Depth to Water Detail	5/23/2023 14:26	10.45	ft
GC-AP-MW-54H	ORP	Oxidation Reduction Potention	5/23/2023 14:26	-105.03	mv
GC-AP-MW-54H	PH	pH	5/23/2023 14:26	6.91	SU
GC-AP-MW-54H	TEMP	Temperature	5/23/2023 14:26	18.43	C
GC-AP-MW-54H	TURB	Turbidity	5/23/2023 14:26	10.84	NTU
GC-AP-MW-54H	COND	Conductivity	5/23/2023 14:31	623.81	uS/cm
GC-AP-MW-54H	DO	DO	5/23/2023 14:31	0.05	mg/L
GC-AP-MW-54H	DTW	Depth to Water Detail	5/23/2023 14:31	10.45	ft
GC-AP-MW-54H	ORP	Oxidation Reduction Potention	5/23/2023 14:31	-107.97	mv
GC-AP-MW-54H	PH	pH	5/23/2023 14:31	6.91	SU
GC-AP-MW-54H	TEMP	Temperature	5/23/2023 14:31	18.34	C
GC-AP-MW-54H	TURB	Turbidity	5/23/2023 14:31	8.35	NTU
GC-AP-MW-54H	COND	Conductivity	5/23/2023 14:36	619.09	uS/cm
GC-AP-MW-54H	DO	DO	5/23/2023 14:36	0.05	mg/L
GC-AP-MW-54H	DTW	Depth to Water Detail	5/23/2023 14:36	10.45	ft
GC-AP-MW-54H	ORP	Oxidation Reduction Potention	5/23/2023 14:36	-110.47	mv
GC-AP-MW-54H	PH	pH	5/23/2023 14:36	6.92	SU
GC-AP-MW-54H	SULFIDE	Sulfide	5/23/2023 14:36	0	mg/L
GC-AP-MW-54H	TEMP	Temperature	5/23/2023 14:36	18.32	C
GC-AP-MW-54H	TURB	Turbidity	5/23/2023 14:36	6.34	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-57H	COND	Conductivity	5/23/2023 13:19	229.92	uS/cm
GC-AP-MW-57H	DO	DO	5/23/2023 13:19	0.11	mg/L
GC-AP-MW-57H	DTW	Depth to Water Detail	5/23/2023 13:19	8.09	ft
GC-AP-MW-57H	ORP	Oxidation Reduction Potention	5/23/2023 13:19	111.02	mv
GC-AP-MW-57H	PH	pH	5/23/2023 13:19	5.87	SU
GC-AP-MW-57H	TEMP	Temperature	5/23/2023 13:19	18.26	C
GC-AP-MW-57H	TURB	Turbidity	5/23/2023 13:19	3.78	NTU
GC-AP-MW-57H	COND	Conductivity	5/23/2023 13:24	239.84	uS/cm
GC-AP-MW-57H	DO	DO	5/23/2023 13:24	0.08	mg/L
GC-AP-MW-57H	DTW	Depth to Water Detail	5/23/2023 13:24	8.09	ft
GC-AP-MW-57H	ORP	Oxidation Reduction Potention	5/23/2023 13:24	89.66	mv
GC-AP-MW-57H	PH	pH	5/23/2023 13:24	5.94	SU
GC-AP-MW-57H	TEMP	Temperature	5/23/2023 13:24	18.32	C
GC-AP-MW-57H	TURB	Turbidity	5/23/2023 13:24	3.77	NTU
GC-AP-MW-57H	COND	Conductivity	5/23/2023 13:29	250.5	uS/cm
GC-AP-MW-57H	DO	DO	5/23/2023 13:29	0.07	mg/L
GC-AP-MW-57H	DTW	Depth to Water Detail	5/23/2023 13:29	8.09	ft
GC-AP-MW-57H	ORP	Oxidation Reduction Potention	5/23/2023 13:29	77.39	mv
GC-AP-MW-57H	PH	pH	5/23/2023 13:29	5.99	SU
GC-AP-MW-57H	TEMP	Temperature	5/23/2023 13:29	18.15	C
GC-AP-MW-57H	TURB	Turbidity	5/23/2023 13:29	3.26	NTU
GC-AP-MW-57H	COND	Conductivity	5/23/2023 13:34	253.76	uS/cm
GC-AP-MW-57H	DO	DO	5/23/2023 13:34	0.06	mg/L
GC-AP-MW-57H	DTW	Depth to Water Detail	5/23/2023 13:34	8.09	ft
GC-AP-MW-57H	ORP	Oxidation Reduction Potention	5/23/2023 13:34	72.3	mv
GC-AP-MW-57H	PH	pH	5/23/2023 13:34	6.01	SU
GC-AP-MW-57H	TEMP	Temperature	5/23/2023 13:34	18.25	C
GC-AP-MW-57H	TURB	Turbidity	5/23/2023 13:34	3.09	NTU
GC-AP-MW-57H	COND	Conductivity	5/23/2023 13:39	256.94	uS/cm
GC-AP-MW-57H	DO	DO	5/23/2023 13:39	0.06	mg/L
GC-AP-MW-57H	DTW	Depth to Water Detail	5/23/2023 13:39	8.09	ft
GC-AP-MW-57H	ORP	Oxidation Reduction Potention	5/23/2023 13:39	69.47	mv
GC-AP-MW-57H	PH	pH	5/23/2023 13:39	6	SU
GC-AP-MW-57H	SULFIDE	Sulfide	5/23/2023 13:39	0	mg/L
GC-AP-MW-57H	TEMP	Temperature	5/23/2023 13:39	18.26	C
GC-AP-MW-57H	TURB	Turbidity	5/23/2023 13:39	3.01	NTU

**Field Parameters Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-35H	COND	Conductivity	5/23/2023 10:14	138.98	uS/cm
GC-AP-MW-35H	DO	DO	5/23/2023 10:14	7.59	mg/L
GC-AP-MW-35H	DTW	Depth to Water Detail	5/23/2023 10:14	22.05	ft
GC-AP-MW-35H	ORP	Oxidation Reduction Potention	5/23/2023 10:14	157.46	mv
GC-AP-MW-35H	PH	pH	5/23/2023 10:14	6.27	SU
GC-AP-MW-35H	TEMP	Temperature	5/23/2023 10:14	19.34	C
GC-AP-MW-35H	TURB	Turbidity	5/23/2023 10:14	2.22	NTU
GC-AP-MW-35H	COND	Conductivity	5/23/2023 10:19	135.94	uS/cm
GC-AP-MW-35H	DO	DO	5/23/2023 10:19	7.57	mg/L
GC-AP-MW-35H	DTW	Depth to Water Detail	5/23/2023 10:19	22.05	ft
GC-AP-MW-35H	ORP	Oxidation Reduction Potention	5/23/2023 10:19	156.79	mv
GC-AP-MW-35H	PH	pH	5/23/2023 10:19	6.26	SU
GC-AP-MW-35H	TEMP	Temperature	5/23/2023 10:19	19.32	C
GC-AP-MW-35H	TURB	Turbidity	5/23/2023 10:19	2.2	NTU
GC-AP-MW-35H	COND	Conductivity	5/23/2023 10:24	136.97	uS/cm
GC-AP-MW-35H	DO	DO	5/23/2023 10:24	7.57	mg/L
GC-AP-MW-35H	DTW	Depth to Water Detail	5/23/2023 10:24	22.05	ft
GC-AP-MW-35H	ORP	Oxidation Reduction Potention	5/23/2023 10:24	156.92	mv
GC-AP-MW-35H	PH	pH	5/23/2023 10:24	6.26	SU
GC-AP-MW-35H	TEMP	Temperature	5/23/2023 10:24	19.32	C
GC-AP-MW-35H	TURB	Turbidity	5/23/2023 10:24	2.1	NTU
GC-AP-MW-35H	COND	Conductivity	5/23/2023 10:29	136.25	uS/cm
GC-AP-MW-35H	DO	DO	5/23/2023 10:29	7.55	mg/L
GC-AP-MW-35H	DTW	Depth to Water Detail	5/23/2023 10:29	22.05	ft
GC-AP-MW-35H	ORP	Oxidation Reduction Potention	5/23/2023 10:29	156.5	mv
GC-AP-MW-35H	PH	pH	5/23/2023 10:29	6.26	SU
GC-AP-MW-35H	SULFIDE	Sulfide	5/23/2023 10:29	0	mg/L
GC-AP-MW-35H	TEMP	Temperature	5/23/2023 10:29	19.35	C
GC-AP-MW-35H	TURB	Turbidity	5/23/2023 10:29	2.08	NTU

## Field Parameters Summary Greene County Ash Pond

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-15	COND	Conductivity	5/23/2023 13:23	637.51	uS/cm
GC-AP-MW-15	DO	DO	5/23/2023 13:23	0.83	mg/L
GC-AP-MW-15	DTW	Depth to Water Detail	5/23/2023 13:23	16.56	ft
GC-AP-MW-15	ORP	Oxidation Reduction Potention	5/23/2023 13:23	67.29	mv
GC-AP-MW-15	PH	pH	5/23/2023 13:23	6.22	SU
GC-AP-MW-15	TEMP	Temperature	5/23/2023 13:23	18.59	C
GC-AP-MW-15	TURB	Turbidity	5/23/2023 13:23	2.06	NTU
GC-AP-MW-15	COND	Conductivity	5/23/2023 13:28	644.33	uS/cm
GC-AP-MW-15	DO	DO	5/23/2023 13:28	0.72	mg/L
GC-AP-MW-15	DTW	Depth to Water Detail	5/23/2023 13:28	16.56	ft
GC-AP-MW-15	ORP	Oxidation Reduction Potention	5/23/2023 13:28	63.7	mv
GC-AP-MW-15	PH	pH	5/23/2023 13:28	6.25	SU
GC-AP-MW-15	TEMP	Temperature	5/23/2023 13:28	18.61	C
GC-AP-MW-15	TURB	Turbidity	5/23/2023 13:28	1.7	NTU
GC-AP-MW-15	COND	Conductivity	5/23/2023 13:33	636.15	uS/cm
GC-AP-MW-15	DO	DO	5/23/2023 13:33	0.67	mg/L
GC-AP-MW-15	DTW	Depth to Water Detail	5/23/2023 13:33	16.56	ft
GC-AP-MW-15	ORP	Oxidation Reduction Potention	5/23/2023 13:33	62.6	mv
GC-AP-MW-15	PH	pH	5/23/2023 13:33	6.25	SU
GC-AP-MW-15	TEMP	Temperature	5/23/2023 13:33	18.61	C
GC-AP-MW-15	TURB	Turbidity	5/23/2023 13:33	1.44	NTU
GC-AP-MW-15	COND	Conductivity	5/23/2023 13:38	642.6	uS/cm
GC-AP-MW-15	DO	DO	5/23/2023 13:38	0.65	mg/L
GC-AP-MW-15	DTW	Depth to Water Detail	5/23/2023 13:38	16.56	ft
GC-AP-MW-15	ORP	Oxidation Reduction Potention	5/23/2023 13:38	61.92	mv
GC-AP-MW-15	PH	pH	5/23/2023 13:38	6.25	SU
GC-AP-MW-15	SULFIDE	Sulfide	5/23/2023 13:38	0	mg/L
GC-AP-MW-15	TEMP	Temperature	5/23/2023 13:38	18.63	C
GC-AP-MW-15	TURB	Turbidity	5/23/2023 13:38	1.48	NTU

**Field Parameters Summary  
Greene County Ash Pond (Off-Site Well Locations)**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-52HO	COND	Conductivity	5/15/2023 13:16	1015.11	uS/cm
GC-AP-MW-52HO	DO	DO	5/15/2023 13:16	0.26	mg/L
GC-AP-MW-52HO	DTW	Depth to Water Detail	5/15/2023 13:16	7.9	ft
GC-AP-MW-52HO	ORP	Oxidation Reduction Potention	5/15/2023 13:16	23.18	mv
GC-AP-MW-52HO	PH	pH	5/15/2023 13:16	5.91	SU
GC-AP-MW-52HO	TEMP	Temperature	5/15/2023 13:16	18.52	C
GC-AP-MW-52HO	TURB	Turbidity	5/15/2023 13:16	3.57	NTU
GC-AP-MW-52HO	COND	Conductivity	5/15/2023 13:21	864.99	uS/cm
GC-AP-MW-52HO	DO	DO	5/15/2023 13:21	0.24	mg/L
GC-AP-MW-52HO	DTW	Depth to Water Detail	5/15/2023 13:21	7.9	ft
GC-AP-MW-52HO	ORP	Oxidation Reduction Potention	5/15/2023 13:21	23.76	mv
GC-AP-MW-52HO	PH	pH	5/15/2023 13:21	6.04	SU
GC-AP-MW-52HO	TEMP	Temperature	5/15/2023 13:21	18.63	C
GC-AP-MW-52HO	TURB	Turbidity	5/15/2023 13:21	3.04	NTU
GC-AP-MW-52HO	COND	Conductivity	5/15/2023 13:26	897.72	uS/cm
GC-AP-MW-52HO	DO	DO	5/15/2023 13:26	0.23	mg/L
GC-AP-MW-52HO	DTW	Depth to Water Detail	5/15/2023 13:26	7.9	ft
GC-AP-MW-52HO	ORP	Oxidation Reduction Potention	5/15/2023 13:26	26.55	mv
GC-AP-MW-52HO	PH	pH	5/15/2023 13:26	6.1	SU
GC-AP-MW-52HO	TEMP	Temperature	5/15/2023 13:26	18.58	C
GC-AP-MW-52HO	TURB	Turbidity	5/15/2023 13:26	2.55	NTU
GC-AP-MW-52HO	COND	Conductivity	5/15/2023 13:31	780.33	uS/cm
GC-AP-MW-52HO	DO	DO	5/15/2023 13:31	0.24	mg/L
GC-AP-MW-52HO	DTW	Depth to Water Detail	5/15/2023 13:31	7.9	ft
GC-AP-MW-52HO	ORP	Oxidation Reduction Potention	5/15/2023 13:31	27.12	mv
GC-AP-MW-52HO	PH	pH	5/15/2023 13:31	6.14	SU
GC-AP-MW-52HO	TEMP	Temperature	5/15/2023 13:31	18.61	C
GC-AP-MW-52HO	TURB	Turbidity	5/15/2023 13:31	2.8	NTU
GC-AP-MW-52HO	COND	Conductivity	5/15/2023 13:36	779.82	uS/cm
GC-AP-MW-52HO	DO	DO	5/15/2023 13:36	0.25	mg/L
GC-AP-MW-52HO	DTW	Depth to Water Detail	5/15/2023 13:36	7.9	ft
GC-AP-MW-52HO	ORP	Oxidation Reduction Potention	5/15/2023 13:36	27.26	mv
GC-AP-MW-52HO	PH	pH	5/15/2023 13:36	6.17	SU
GC-AP-MW-52HO	TEMP	Temperature	5/15/2023 13:36	18.48	C
GC-AP-MW-52HO	TURB	Turbidity	5/15/2023 13:36	2.83	NTU
GC-AP-MW-52HO	COND	Conductivity	5/15/2023 13:38	875.86	uS/cm
GC-AP-MW-52HO	DO	DO	5/15/2023 13:38	0.18	mg/L
GC-AP-MW-52HO	DTW	Depth to Water Detail	5/15/2023 13:38	7.9	ft
GC-AP-MW-52HO	ORP	Oxidation Reduction Potention	5/15/2023 13:38	27.91	mv
GC-AP-MW-52HO	PH	pH	5/15/2023 13:38	6.17	SU
GC-AP-MW-52HO	TEMP	Temperature	5/15/2023 13:38	18.69	C
GC-AP-MW-52HO	TURB	Turbidity	5/15/2023 13:38	2.73	NTU
GC-AP-MW-52HO	COND	Conductivity	5/15/2023 13:43	876.33	uS/cm
GC-AP-MW-52HO	DO	DO	5/15/2023 13:43	0.28	mg/L
GC-AP-MW-52HO	DTW	Depth to Water Detail	5/15/2023 13:43	7.9	ft
GC-AP-MW-52HO	ORP	Oxidation Reduction Potention	5/15/2023 13:43	28.02	mv

**Field Parameters Summary  
Greene County Ash Pond (Off-Site Well Locations)**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-52HO	PH	pH	5/15/2023 13:43	6.19	SU
GC-AP-MW-52HO	TEMP	Temperature	5/15/2023 13:43	18.5	C
GC-AP-MW-52HO	TURB	Turbidity	5/15/2023 13:43	2.7	NTU
GC-AP-MW-52HO	COND	Conductivity	5/15/2023 13:48	882.46	uS/cm
GC-AP-MW-52HO	DO	DO	5/15/2023 13:48	0.24	mg/L
GC-AP-MW-52HO	DTW	Depth to Water Detail	5/15/2023 13:48	7.9	ft
GC-AP-MW-52HO	ORP	Oxidation Reduction Potention	5/15/2023 13:48	28.64	mv
GC-AP-MW-52HO	PH	pH	5/15/2023 13:48	6.2	SU
GC-AP-MW-52HO	TEMP	Temperature	5/15/2023 13:48	18.55	C
GC-AP-MW-52HO	TURB	Turbidity	5/15/2023 13:48	2.26	NTU
GC-AP-MW-52HO	COND	Conductivity	5/15/2023 13:53	805.27	uS/cm
GC-AP-MW-52HO	DO	DO	5/15/2023 13:53	0.23	mg/L
GC-AP-MW-52HO	DTW	Depth to Water Detail	5/15/2023 13:53	7.9	ft
GC-AP-MW-52HO	ORP	Oxidation Reduction Potention	5/15/2023 13:53	28.12	mv
GC-AP-MW-52HO	PH	pH	5/15/2023 13:53	6.21	SU
GC-AP-MW-52HO	TEMP	Temperature	5/15/2023 13:53	18.36	C
GC-AP-MW-52HO	TURB	Turbidity	5/15/2023 13:53	2.11	NTU
GC-AP-MW-52HO	COND	Conductivity	5/15/2023 13:58	883.76	uS/cm
GC-AP-MW-52HO	DO	DO	5/15/2023 13:58	0.36	mg/L
GC-AP-MW-52HO	DTW	Depth to Water Detail	5/15/2023 13:58	7.9	ft
GC-AP-MW-52HO	ORP	Oxidation Reduction Potention	5/15/2023 13:58	30.87	mv
GC-AP-MW-52HO	PH	pH	5/15/2023 13:58	6.17	SU
GC-AP-MW-52HO	TEMP	Temperature	5/15/2023 13:58	18.41	C
GC-AP-MW-52HO	TURB	Turbidity	5/15/2023 13:58	2.19	NTU
GC-AP-MW-52HO	COND	Conductivity	5/15/2023 14:03	882.18	uS/cm
GC-AP-MW-52HO	DO	DO	5/15/2023 14:03	0.36	mg/L
GC-AP-MW-52HO	DTW	Depth to Water Detail	5/15/2023 14:03	7.9	ft
GC-AP-MW-52HO	ORP	Oxidation Reduction Potention	5/15/2023 14:03	32.74	mv
GC-AP-MW-52HO	PH	pH	5/15/2023 14:03	6.16	SU
GC-AP-MW-52HO	TEMP	Temperature	5/15/2023 14:03	18.33	C
GC-AP-MW-52HO	TURB	Turbidity	5/15/2023 14:03	1.75	NTU
GC-AP-MW-52HO	COND	Conductivity	5/15/2023 14:08	882.52	uS/cm
GC-AP-MW-52HO	DO	DO	5/15/2023 14:08	0.23	mg/L
GC-AP-MW-52HO	DTW	Depth to Water Detail	5/15/2023 14:08	7.9	ft
GC-AP-MW-52HO	ORP	Oxidation Reduction Potention	5/15/2023 14:08	33.14	mv
GC-AP-MW-52HO	PH	pH	5/15/2023 14:08	6.15	SU
GC-AP-MW-52HO	SULFIDE	Sulfide	5/15/2023 14:08	0	mg/L
GC-AP-MW-52HO	TEMP	Temperature	5/15/2023 14:08	18.33	C
GC-AP-MW-52HO	TURB	Turbidity	5/15/2023 14:08	1.35	NTU



**Field Parameters Summary  
Greene County Ash Pond (Off-Site Well Locations)**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-47HO	COND	Conductivity	5/22/2023 13:59	138.55	uS/cm
GC-AP-MW-47HO	DO	DO	5/22/2023 13:59	0.55	mg/L
GC-AP-MW-47HO	DTW	Depth to Water Detail	5/22/2023 13:59	12.29	ft
GC-AP-MW-47HO	ORP	Oxidation Reduction Potention	5/22/2023 13:59	213.39	mv
GC-AP-MW-47HO	PH	pH	5/22/2023 13:59	5.66	SU
GC-AP-MW-47HO	TEMP	Temperature	5/22/2023 13:59	20.93	C
GC-AP-MW-47HO	TURB	Turbidity	5/22/2023 13:59	4.66	NTU
GC-AP-MW-47HO	COND	Conductivity	5/22/2023 14:04	140.7	uS/cm
GC-AP-MW-47HO	DO	DO	5/22/2023 14:04	0.82	mg/L
GC-AP-MW-47HO	DTW	Depth to Water Detail	5/22/2023 14:04	12.29	ft
GC-AP-MW-47HO	ORP	Oxidation Reduction Potention	5/22/2023 14:04	224.61	mv
GC-AP-MW-47HO	PH	pH	5/22/2023 14:04	5.52	SU
GC-AP-MW-47HO	TEMP	Temperature	5/22/2023 14:04	20.87	C
GC-AP-MW-47HO	TURB	Turbidity	5/22/2023 14:04	4.32	NTU
GC-AP-MW-47HO	COND	Conductivity	5/22/2023 14:09	141.85	uS/cm
GC-AP-MW-47HO	DO	DO	5/22/2023 14:09	1.08	mg/L
GC-AP-MW-47HO	DTW	Depth to Water Detail	5/22/2023 14:09	12.29	ft
GC-AP-MW-47HO	ORP	Oxidation Reduction Potention	5/22/2023 14:09	227.46	mv
GC-AP-MW-47HO	PH	pH	5/22/2023 14:09	5.5	SU
GC-AP-MW-47HO	TEMP	Temperature	5/22/2023 14:09	20.99	C
GC-AP-MW-47HO	TURB	Turbidity	5/22/2023 14:09	4.24	NTU
GC-AP-MW-47HO	COND	Conductivity	5/22/2023 14:14	141.12	uS/cm
GC-AP-MW-47HO	DO	DO	5/22/2023 14:14	1.18	mg/L
GC-AP-MW-47HO	DTW	Depth to Water Detail	5/22/2023 14:14	12.29	ft
GC-AP-MW-47HO	ORP	Oxidation Reduction Potention	5/22/2023 14:14	227.14	mv
GC-AP-MW-47HO	PH	pH	5/22/2023 14:14	5.51	SU
GC-AP-MW-47HO	TEMP	Temperature	5/22/2023 14:14	21.01	C
GC-AP-MW-47HO	TURB	Turbidity	5/22/2023 14:14	3.98	NTU
GC-AP-MW-47HO	COND	Conductivity	5/22/2023 14:19	142.94	uS/cm
GC-AP-MW-47HO	DO	DO	5/22/2023 14:19	1.25	mg/L
GC-AP-MW-47HO	DTW	Depth to Water Detail	5/22/2023 14:19	12.29	ft
GC-AP-MW-47HO	ORP	Oxidation Reduction Potention	5/22/2023 14:19	228.48	mv
GC-AP-MW-47HO	PH	pH	5/22/2023 14:19	5.53	SU
GC-AP-MW-47HO	SULFIDE	Sulfide	5/22/2023 14:19	0	mg/L
GC-AP-MW-47HO	TEMP	Temperature	5/22/2023 14:19	20.88	C
GC-AP-MW-47HO	TURB	Turbidity	5/22/2023 14:19	3.96	NTU

**Field Parameters Summary  
Greene County Ash Pond (Off-Site Well Locations)**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-50HO	COND	Conductivity	5/23/2023 11:51	393.33	uS/cm
GC-AP-MW-50HO	DO	DO	5/23/2023 11:51	0.09	mg/L
GC-AP-MW-50HO	DTW	Depth to Water Detail	5/23/2023 11:51	8.33	ft
GC-AP-MW-50HO	ORP	Oxidation Reduction Potention	5/23/2023 11:51	98.28	mv
GC-AP-MW-50HO	PH	pH	5/23/2023 11:51	6.26	SU
GC-AP-MW-50HO	TEMP	Temperature	5/23/2023 11:51	18.51	C
GC-AP-MW-50HO	TURB	Turbidity	5/23/2023 11:51	9.18	NTU
GC-AP-MW-50HO	COND	Conductivity	5/23/2023 11:56	392.56	uS/cm
GC-AP-MW-50HO	DO	DO	5/23/2023 11:56	0.07	mg/L
GC-AP-MW-50HO	DTW	Depth to Water Detail	5/23/2023 11:56	8.33	ft
GC-AP-MW-50HO	ORP	Oxidation Reduction Potention	5/23/2023 11:56	103.34	mv
GC-AP-MW-50HO	PH	pH	5/23/2023 11:56	6.25	SU
GC-AP-MW-50HO	TEMP	Temperature	5/23/2023 11:56	18.49	C
GC-AP-MW-50HO	TURB	Turbidity	5/23/2023 11:56	6.67	NTU
GC-AP-MW-50HO	COND	Conductivity	5/23/2023 12:01	392.24	uS/cm
GC-AP-MW-50HO	DO	DO	5/23/2023 12:01	0.06	mg/L
GC-AP-MW-50HO	DTW	Depth to Water Detail	5/23/2023 12:01	8.33	ft
GC-AP-MW-50HO	ORP	Oxidation Reduction Potention	5/23/2023 12:01	107.16	mv
GC-AP-MW-50HO	PH	pH	5/23/2023 12:01	6.24	SU
GC-AP-MW-50HO	TEMP	Temperature	5/23/2023 12:01	18.56	C
GC-AP-MW-50HO	TURB	Turbidity	5/23/2023 12:01	5.56	NTU
GC-AP-MW-50HO	COND	Conductivity	5/23/2023 12:06	392.13	uS/cm
GC-AP-MW-50HO	DO	DO	5/23/2023 12:06	0.06	mg/L
GC-AP-MW-50HO	DTW	Depth to Water Detail	5/23/2023 12:06	8.33	ft
GC-AP-MW-50HO	ORP	Oxidation Reduction Potention	5/23/2023 12:06	106.96	mv
GC-AP-MW-50HO	PH	pH	5/23/2023 12:06	6.24	SU
GC-AP-MW-50HO	SULFIDE	Sulfide	5/23/2023 12:06	0	mg/L
GC-AP-MW-50HO	TEMP	Temperature	5/23/2023 12:06	18.53	C
GC-AP-MW-50HO	TURB	Turbidity	5/23/2023 12:06	5.3	NTU

**Field Parameters Summary  
Greene County Ash Pond (Off-Site Well Locations)**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-55HO	COND	Conductivity	5/23/2023 12:52	40.94	uS/cm
GC-AP-MW-55HO	DO	DO	5/23/2023 12:52	3.15	mg/L
GC-AP-MW-55HO	DTW	Depth to Water Detail	5/23/2023 12:52	32.4	ft
GC-AP-MW-55HO	ORP	Oxidation Reduction Potention	5/23/2023 12:52	268.51	mv
GC-AP-MW-55HO	PH	pH	5/23/2023 12:52	5.08	SU
GC-AP-MW-55HO	TEMP	Temperature	5/23/2023 12:52	18.5	C
GC-AP-MW-55HO	TURB	Turbidity	5/23/2023 12:52	26.1	NTU
GC-AP-MW-55HO	COND	Conductivity	5/23/2023 12:57	42.52	uS/cm
GC-AP-MW-55HO	DO	DO	5/23/2023 12:57	3.53	mg/L
GC-AP-MW-55HO	DTW	Depth to Water Detail	5/23/2023 12:57	32.4	ft
GC-AP-MW-55HO	ORP	Oxidation Reduction Potention	5/23/2023 12:57	287.81	mv
GC-AP-MW-55HO	PH	pH	5/23/2023 12:57	5.06	SU
GC-AP-MW-55HO	TEMP	Temperature	5/23/2023 12:57	18.52	C
GC-AP-MW-55HO	TURB	Turbidity	5/23/2023 12:57	17	NTU
GC-AP-MW-55HO	COND	Conductivity	5/23/2023 13:02	42.41	uS/cm
GC-AP-MW-55HO	DO	DO	5/23/2023 13:02	6.05	mg/L
GC-AP-MW-55HO	DTW	Depth to Water Detail	5/23/2023 13:02	32.4	ft
GC-AP-MW-55HO	ORP	Oxidation Reduction Potention	5/23/2023 13:02	295.13	mv
GC-AP-MW-55HO	PH	pH	5/23/2023 13:02	5.04	SU
GC-AP-MW-55HO	TEMP	Temperature	5/23/2023 13:02	18.54	C
GC-AP-MW-55HO	TURB	Turbidity	5/23/2023 13:02	13.2	NTU
GC-AP-MW-55HO	COND	Conductivity	5/23/2023 13:07	45.03	uS/cm
GC-AP-MW-55HO	DO	DO	5/23/2023 13:07	5.97	mg/L
GC-AP-MW-55HO	DTW	Depth to Water Detail	5/23/2023 13:07	32.4	ft
GC-AP-MW-55HO	ORP	Oxidation Reduction Potention	5/23/2023 13:07	299.94	mv
GC-AP-MW-55HO	PH	pH	5/23/2023 13:07	5.07	SU
GC-AP-MW-55HO	TEMP	Temperature	5/23/2023 13:07	18.51	C
GC-AP-MW-55HO	TURB	Turbidity	5/23/2023 13:07	8.51	NTU
GC-AP-MW-55HO	COND	Conductivity	5/23/2023 13:12	43.85	uS/cm
GC-AP-MW-55HO	DO	DO	5/23/2023 13:12	5.98	mg/L
GC-AP-MW-55HO	DTW	Depth to Water Detail	5/23/2023 13:12	32.4	ft
GC-AP-MW-55HO	ORP	Oxidation Reduction Potention	5/23/2023 13:12	305.4	mv
GC-AP-MW-55HO	PH	pH	5/23/2023 13:12	5.04	SU
GC-AP-MW-55HO	TEMP	Temperature	5/23/2023 13:12	18.45	C
GC-AP-MW-55HO	TURB	Turbidity	5/23/2023 13:12	7.24	NTU
GC-AP-MW-55HO	COND	Conductivity	5/23/2023 13:17	44.87	uS/cm
GC-AP-MW-55HO	DO	DO	5/23/2023 13:17	5.94	mg/L
GC-AP-MW-55HO	DTW	Depth to Water Detail	5/23/2023 13:17	32.4	ft
GC-AP-MW-55HO	ORP	Oxidation Reduction Potention	5/23/2023 13:17	307.92	mv
GC-AP-MW-55HO	PH	pH	5/23/2023 13:17	5.05	SU
GC-AP-MW-55HO	SULFIDE	Sulfide	5/23/2023 13:17	0	mg/L
GC-AP-MW-55HO	TEMP	Temperature	5/23/2023 13:17	18.49	C
GC-AP-MW-55HO	TURB	Turbidity	5/23/2023 13:17	6.9	NTU

**Field Parameters Summary  
Greene County Ash Pond (Off-Site Well Locations)**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-59HO	COND	Conductivity	5/23/2023 10:54	551.57	uS/cm
GC-AP-MW-59HO	DO	DO	5/23/2023 10:54	0.09	mg/L
GC-AP-MW-59HO	DTW	Depth to Water Detail	5/23/2023 10:54	10.92	ft
GC-AP-MW-59HO	ORP	Oxidation Reduction Potention	5/23/2023 10:54	83.01	mv
GC-AP-MW-59HO	PH	pH	5/23/2023 10:54	5.79	SU
GC-AP-MW-59HO	TEMP	Temperature	5/23/2023 10:54	17.76	C
GC-AP-MW-59HO	TURB	Turbidity	5/23/2023 10:54	50.9	NTU
GC-AP-MW-59HO	COND	Conductivity	5/23/2023 10:59	551.17	uS/cm
GC-AP-MW-59HO	DO	DO	5/23/2023 10:59	0.07	mg/L
GC-AP-MW-59HO	DTW	Depth to Water Detail	5/23/2023 10:59	10.92	ft
GC-AP-MW-59HO	ORP	Oxidation Reduction Potention	5/23/2023 10:59	92.95	mv
GC-AP-MW-59HO	PH	pH	5/23/2023 10:59	5.78	SU
GC-AP-MW-59HO	TEMP	Temperature	5/23/2023 10:59	17.78	C
GC-AP-MW-59HO	TURB	Turbidity	5/23/2023 10:59	22	NTU
GC-AP-MW-59HO	COND	Conductivity	5/23/2023 11:04	553.66	uS/cm
GC-AP-MW-59HO	DO	DO	5/23/2023 11:04	0.06	mg/L
GC-AP-MW-59HO	DTW	Depth to Water Detail	5/23/2023 11:04	10.92	ft
GC-AP-MW-59HO	ORP	Oxidation Reduction Potention	5/23/2023 11:04	99.38	mv
GC-AP-MW-59HO	PH	pH	5/23/2023 11:04	5.78	SU
GC-AP-MW-59HO	TEMP	Temperature	5/23/2023 11:04	17.71	C
GC-AP-MW-59HO	TURB	Turbidity	5/23/2023 11:04	13.4	NTU
GC-AP-MW-59HO	COND	Conductivity	5/23/2023 11:09	554.58	uS/cm
GC-AP-MW-59HO	DO	DO	5/23/2023 11:09	0.06	mg/L
GC-AP-MW-59HO	DTW	Depth to Water Detail	5/23/2023 11:09	10.92	ft
GC-AP-MW-59HO	ORP	Oxidation Reduction Potention	5/23/2023 11:09	103.54	mv
GC-AP-MW-59HO	PH	pH	5/23/2023 11:09	5.78	SU
GC-AP-MW-59HO	TEMP	Temperature	5/23/2023 11:09	17.85	C
GC-AP-MW-59HO	TURB	Turbidity	5/23/2023 11:09	9.56	NTU
GC-AP-MW-59HO	COND	Conductivity	5/23/2023 11:14	554.29	uS/cm
GC-AP-MW-59HO	DO	DO	5/23/2023 11:14	0.06	mg/L
GC-AP-MW-59HO	DTW	Depth to Water Detail	5/23/2023 11:14	10.92	ft
GC-AP-MW-59HO	ORP	Oxidation Reduction Potention	5/23/2023 11:14	106.29	mv
GC-AP-MW-59HO	PH	pH	5/23/2023 11:14	5.78	SU
GC-AP-MW-59HO	SULFIDE	Sulfide	5/23/2023 11:14	0	mg/L
GC-AP-MW-59HO	TEMP	Temperature	5/23/2023 11:14	17.76	C
GC-AP-MW-59HO	TURB	Turbidity	5/23/2023 11:14	8.65	NTU

**Field Parameters Summary  
Greene County Ash Pond (Off-Site Well Locations)**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-60HO	COND	Conductivity	5/23/2023 8:03	39	uS/cm
GC-AP-MW-60HO	DO	DO	5/23/2023 8:03	5.78	mg/L
GC-AP-MW-60HO	DTW	Depth to Water Detail	5/23/2023 8:03	21.65	ft
GC-AP-MW-60HO	ORP	Oxidation Reduction Potention	5/23/2023 8:03	322.26	mv
GC-AP-MW-60HO	PH	pH	5/23/2023 8:03	4.79	SU
GC-AP-MW-60HO	TEMP	Temperature	5/23/2023 8:03	18.18	C
GC-AP-MW-60HO	TURB	Turbidity	5/23/2023 8:03	8.17	NTU
GC-AP-MW-60HO	COND	Conductivity	5/23/2023 8:08	46.33	uS/cm
GC-AP-MW-60HO	DO	DO	5/23/2023 8:08	5.59	mg/L
GC-AP-MW-60HO	DTW	Depth to Water Detail	5/23/2023 8:08	21.65	ft
GC-AP-MW-60HO	ORP	Oxidation Reduction Potention	5/23/2023 8:08	319.07	mv
GC-AP-MW-60HO	PH	pH	5/23/2023 8:08	4.91	SU
GC-AP-MW-60HO	TEMP	Temperature	5/23/2023 8:08	18.32	C
GC-AP-MW-60HO	TURB	Turbidity	5/23/2023 8:08	6.39	NTU
GC-AP-MW-60HO	COND	Conductivity	5/23/2023 8:13	48.55	uS/cm
GC-AP-MW-60HO	DO	DO	5/23/2023 8:13	5.5	mg/L
GC-AP-MW-60HO	DTW	Depth to Water Detail	5/23/2023 8:13	21.65	ft
GC-AP-MW-60HO	ORP	Oxidation Reduction Potention	5/23/2023 8:13	318.42	mv
GC-AP-MW-60HO	PH	pH	5/23/2023 8:13	4.93	SU
GC-AP-MW-60HO	TEMP	Temperature	5/23/2023 8:13	18.26	C
GC-AP-MW-60HO	TURB	Turbidity	5/23/2023 8:13	5.43	NTU
GC-AP-MW-60HO	COND	Conductivity	5/23/2023 8:18	50.7	uS/cm
GC-AP-MW-60HO	DO	DO	5/23/2023 8:18	5.47	mg/L
GC-AP-MW-60HO	DTW	Depth to Water Detail	5/23/2023 8:18	21.65	ft
GC-AP-MW-60HO	ORP	Oxidation Reduction Potention	5/23/2023 8:18	321.35	mv
GC-AP-MW-60HO	PH	pH	5/23/2023 8:18	4.94	SU
GC-AP-MW-60HO	TEMP	Temperature	5/23/2023 8:18	18.3	C
GC-AP-MW-60HO	TURB	Turbidity	5/23/2023 8:18	5.32	NTU
GC-AP-MW-60HO	COND	Conductivity	5/23/2023 8:23	52.3	uS/cm
GC-AP-MW-60HO	DO	DO	5/23/2023 8:23	5.42	mg/L
GC-AP-MW-60HO	DTW	Depth to Water Detail	5/23/2023 8:23	21.65	ft
GC-AP-MW-60HO	ORP	Oxidation Reduction Potention	5/23/2023 8:23	318.98	mv
GC-AP-MW-60HO	PH	pH	5/23/2023 8:23	4.99	SU
GC-AP-MW-60HO	TEMP	Temperature	5/23/2023 8:23	18.29	C
GC-AP-MW-60HO	TURB	Turbidity	5/23/2023 8:23	5.48	NTU
GC-AP-MW-60HO	COND	Conductivity	5/23/2023 8:28	52.55	uS/cm
GC-AP-MW-60HO	DO	DO	5/23/2023 8:28	5.36	mg/L
GC-AP-MW-60HO	DTW	Depth to Water Detail	5/23/2023 8:28	21.65	ft
GC-AP-MW-60HO	ORP	Oxidation Reduction Potention	5/23/2023 8:28	295.94	mv
GC-AP-MW-60HO	PH	pH	5/23/2023 8:28	5.24	SU
GC-AP-MW-60HO	TEMP	Temperature	5/23/2023 8:28	18.45	C
GC-AP-MW-60HO	TURB	Turbidity	5/23/2023 8:28	5.4	NTU
GC-AP-MW-60HO	COND	Conductivity	5/23/2023 8:33	52.76	uS/cm
GC-AP-MW-60HO	DO	DO	5/23/2023 8:33	5.35	mg/L
GC-AP-MW-60HO	DTW	Depth to Water Detail	5/23/2023 8:33	21.65	ft
GC-AP-MW-60HO	ORP	Oxidation Reduction Potention	5/23/2023 8:33	275.33	mv

**Field Parameters Summary  
Greene County Ash Pond (Off-Site Well Locations)**

<b>WELL ID</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
GC-AP-MW-60HO	PH	pH	5/23/2023 8:33	5.26	SU
GC-AP-MW-60HO	TEMP	Temperature	5/23/2023 8:33	19.12	C
GC-AP-MW-60HO	TURB	Turbidity	5/23/2023 8:33	4.88	NTU
GC-AP-MW-60HO	COND	Conductivity	5/23/2023 8:38	53.58	uS/cm
GC-AP-MW-60HO	DO	DO	5/23/2023 8:38	5.37	mg/L
GC-AP-MW-60HO	DTW	Depth to Water Detail	5/23/2023 8:38	21.65	ft
GC-AP-MW-60HO	ORP	Oxidation Reduction Potention	5/23/2023 8:38	265.3	mv
GC-AP-MW-60HO	PH	pH	5/23/2023 8:38	5.26	SU
GC-AP-MW-60HO	SULFIDE	Sulfide	5/23/2023 8:38	0	mg/L
GC-AP-MW-60HO	TEMP	Temperature	5/23/2023 8:38	19.5	C
GC-AP-MW-60HO	TURB	Turbidity	5/23/2023 8:38	4.8	NTU

**Field Parameters Summary  
Greene County Ash Pond (Off-Site Well Locations)**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-61HO	COND	Conductivity	5/23/2023 9:40	72.67	uS/cm
GC-AP-MW-61HO	DO	DO	5/23/2023 9:40	6.98	mg/L
GC-AP-MW-61HO	DTW	Depth to Water Detail	5/23/2023 9:40	20.03	ft
GC-AP-MW-61HO	ORP	Oxidation Reduction Potention	5/23/2023 9:40	223.39	mv
GC-AP-MW-61HO	PH	pH	5/23/2023 9:40	5.8	SU
GC-AP-MW-61HO	TEMP	Temperature	5/23/2023 9:40	18.18	C
GC-AP-MW-61HO	TURB	Turbidity	5/23/2023 9:40	32.1	NTU
GC-AP-MW-61HO	COND	Conductivity	5/23/2023 9:45	85.39	uS/cm
GC-AP-MW-61HO	DO	DO	5/23/2023 9:45	6.76	mg/L
GC-AP-MW-61HO	DTW	Depth to Water Detail	5/23/2023 9:45	20.03	ft
GC-AP-MW-61HO	ORP	Oxidation Reduction Potention	5/23/2023 9:45	225.51	mv
GC-AP-MW-61HO	PH	pH	5/23/2023 9:45	5.85	SU
GC-AP-MW-61HO	TEMP	Temperature	5/23/2023 9:45	18.24	C
GC-AP-MW-61HO	TURB	Turbidity	5/23/2023 9:45	23.9	NTU
GC-AP-MW-61HO	COND	Conductivity	5/23/2023 9:50	93.41	uS/cm
GC-AP-MW-61HO	DO	DO	5/23/2023 9:50	6.62	mg/L
GC-AP-MW-61HO	DTW	Depth to Water Detail	5/23/2023 9:50	20.03	ft
GC-AP-MW-61HO	ORP	Oxidation Reduction Potention	5/23/2023 9:50	223.47	mv
GC-AP-MW-61HO	PH	pH	5/23/2023 9:50	5.9	SU
GC-AP-MW-61HO	TEMP	Temperature	5/23/2023 9:50	18.38	C
GC-AP-MW-61HO	TURB	Turbidity	5/23/2023 9:50	7.57	NTU
GC-AP-MW-61HO	COND	Conductivity	5/23/2023 9:55	91.34	uS/cm
GC-AP-MW-61HO	DO	DO	5/23/2023 9:55	6.65	mg/L
GC-AP-MW-61HO	DTW	Depth to Water Detail	5/23/2023 9:55	20.03	ft
GC-AP-MW-61HO	ORP	Oxidation Reduction Potention	5/23/2023 9:55	222.81	mv
GC-AP-MW-61HO	PH	pH	5/23/2023 9:55	5.91	SU
GC-AP-MW-61HO	TEMP	Temperature	5/23/2023 9:55	18.46	C
GC-AP-MW-61HO	TURB	Turbidity	5/23/2023 9:55	6.89	NTU
GC-AP-MW-61HO	COND	Conductivity	5/23/2023 10:00	97.37	uS/cm
GC-AP-MW-61HO	DO	DO	5/23/2023 10:00	6.46	mg/L
GC-AP-MW-61HO	DTW	Depth to Water Detail	5/23/2023 10:00	20.03	ft
GC-AP-MW-61HO	ORP	Oxidation Reduction Potention	5/23/2023 10:00	220.63	mv
GC-AP-MW-61HO	PH	pH	5/23/2023 10:00	5.96	SU
GC-AP-MW-61HO	TEMP	Temperature	5/23/2023 10:00	18.37	C
GC-AP-MW-61HO	TURB	Turbidity	5/23/2023 10:00	6.12	NTU
GC-AP-MW-61HO	COND	Conductivity	5/23/2023 10:05	92.46	uS/cm
GC-AP-MW-61HO	DO	DO	5/23/2023 10:05	6.54	mg/L
GC-AP-MW-61HO	DTW	Depth to Water Detail	5/23/2023 10:05	20.03	ft
GC-AP-MW-61HO	ORP	Oxidation Reduction Potention	5/23/2023 10:05	221.24	mv
GC-AP-MW-61HO	PH	pH	5/23/2023 10:05	5.95	SU
GC-AP-MW-61HO	TEMP	Temperature	5/23/2023 10:05	18.29	C
GC-AP-MW-61HO	TURB	Turbidity	5/23/2023 10:05	6.3	NTU
GC-AP-MW-61HO	COND	Conductivity	5/23/2023 10:10	93.29	uS/cm
GC-AP-MW-61HO	DO	DO	5/23/2023 10:10	6.51	mg/L
GC-AP-MW-61HO	DTW	Depth to Water Detail	5/23/2023 10:10	20.03	ft
GC-AP-MW-61HO	ORP	Oxidation Reduction Potention	5/23/2023 10:10	221.16	mv

**Field Parameters Summary  
Greene County Ash Pond (Off-Site Well Locations)**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-61HO	PH	pH	5/23/2023 10:10	5.98	SU
GC-AP-MW-61HO	TEMP	Temperature	5/23/2023 10:10	18.26	C
GC-AP-MW-61HO	TURB	Turbidity	5/23/2023 10:10	6.15	NTU
GC-AP-MW-61HO	COND	Conductivity	5/23/2023 10:15	89.91	uS/cm
GC-AP-MW-61HO	DO	DO	5/23/2023 10:15	6.74	mg/L
GC-AP-MW-61HO	DTW	Depth to Water Detail	5/23/2023 10:15	20.03	ft
GC-AP-MW-61HO	ORP	Oxidation Reduction Potention	5/23/2023 10:15	220.75	mv
GC-AP-MW-61HO	PH	pH	5/23/2023 10:15	5.99	SU
GC-AP-MW-61HO	SULFIDE	Sulfide	5/23/2023 10:15	0	mg/L
GC-AP-MW-61HO	TEMP	Temperature	5/23/2023 10:15	18.13	C
GC-AP-MW-61HO	TURB	Turbidity	5/23/2023 10:15	6.08	NTU



**Field Parameters Summary  
Greene County Ash Pond (Off-Site Well Locations)**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-62HO	COND	Conductivity	5/22/2023 11:52	42.8	uS/cm
GC-AP-MW-62HO	DO	DO	5/22/2023 11:52	6.37	mg/L
GC-AP-MW-62HO	DTW	Depth to Water Detail	5/22/2023 11:52	7.44	ft
GC-AP-MW-62HO	ORP	Oxidation Reduction Potention	5/22/2023 11:52	215.62	mv
GC-AP-MW-62HO	PH	pH	5/22/2023 11:52	5.58	SU
GC-AP-MW-62HO	TEMP	Temperature	5/22/2023 11:52	19.94	C
GC-AP-MW-62HO	TURB	Turbidity	5/22/2023 11:52	25.4	NTU
GC-AP-MW-62HO	COND	Conductivity	5/22/2023 11:57	46.37	uS/cm
GC-AP-MW-62HO	DO	DO	5/22/2023 11:57	6.3	mg/L
GC-AP-MW-62HO	DTW	Depth to Water Detail	5/22/2023 11:57	7.44	ft
GC-AP-MW-62HO	ORP	Oxidation Reduction Potention	5/22/2023 11:57	230.39	mv
GC-AP-MW-62HO	PH	pH	5/22/2023 11:57	5.54	SU
GC-AP-MW-62HO	TEMP	Temperature	5/22/2023 11:57	19.93	C
GC-AP-MW-62HO	TURB	Turbidity	5/22/2023 11:57	21.5	NTU
GC-AP-MW-62HO	COND	Conductivity	5/22/2023 12:02	56.19	uS/cm
GC-AP-MW-62HO	DO	DO	5/22/2023 12:02	6.14	mg/L
GC-AP-MW-62HO	DTW	Depth to Water Detail	5/22/2023 12:02	7.44	ft
GC-AP-MW-62HO	ORP	Oxidation Reduction Potention	5/22/2023 12:02	226.78	mv
GC-AP-MW-62HO	PH	pH	5/22/2023 12:02	5.69	SU
GC-AP-MW-62HO	TEMP	Temperature	5/22/2023 12:02	19.65	C
GC-AP-MW-62HO	TURB	Turbidity	5/22/2023 12:02	19.8	NTU
GC-AP-MW-62HO	COND	Conductivity	5/22/2023 12:07	61.41	uS/cm
GC-AP-MW-62HO	DO	DO	5/22/2023 12:07	5.95	mg/L
GC-AP-MW-62HO	DTW	Depth to Water Detail	5/22/2023 12:07	7.44	ft
GC-AP-MW-62HO	ORP	Oxidation Reduction Potention	5/22/2023 12:07	226.28	mv
GC-AP-MW-62HO	PH	pH	5/22/2023 12:07	5.74	SU
GC-AP-MW-62HO	TEMP	Temperature	5/22/2023 12:07	19.27	C
GC-AP-MW-62HO	TURB	Turbidity	5/22/2023 12:07	16.2	NTU
GC-AP-MW-62HO	COND	Conductivity	5/22/2023 12:12	65.8	uS/cm
GC-AP-MW-62HO	DO	DO	5/22/2023 12:12	5.81	mg/L
GC-AP-MW-62HO	DTW	Depth to Water Detail	5/22/2023 12:12	7.44	ft
GC-AP-MW-62HO	ORP	Oxidation Reduction Potention	5/22/2023 12:12	227.64	mv
GC-AP-MW-62HO	PH	pH	5/22/2023 12:12	5.77	SU
GC-AP-MW-62HO	TEMP	Temperature	5/22/2023 12:12	19.25	C
GC-AP-MW-62HO	TURB	Turbidity	5/22/2023 12:12	10.8	NTU
GC-AP-MW-62HO	COND	Conductivity	5/22/2023 12:17	68.21	uS/cm
GC-AP-MW-62HO	DO	DO	5/22/2023 12:17	5.73	mg/L
GC-AP-MW-62HO	DTW	Depth to Water Detail	5/22/2023 12:17	7.44	ft
GC-AP-MW-62HO	ORP	Oxidation Reduction Potention	5/22/2023 12:17	229.82	mv
GC-AP-MW-62HO	PH	pH	5/22/2023 12:17	5.77	SU
GC-AP-MW-62HO	TEMP	Temperature	5/22/2023 12:17	19.13	C
GC-AP-MW-62HO	TURB	Turbidity	5/22/2023 12:17	8.76	NTU
GC-AP-MW-62HO	COND	Conductivity	5/22/2023 12:22	68.6	uS/cm
GC-AP-MW-62HO	DO	DO	5/22/2023 12:22	5.73	mg/L
GC-AP-MW-62HO	DTW	Depth to Water Detail	5/22/2023 12:22	7.44	ft
GC-AP-MW-62HO	ORP	Oxidation Reduction Potention	5/22/2023 12:22	232.2	mv

**Field Parameters Summary  
Greene County Ash Pond (Off-Site Well Locations)**

<b>WELL ID</b>	<b>PARAMETER</b>	<b>DESCRIPTION</b>	<b>TIME OF READING</b>	<b>VALUE</b>	<b>UNIT</b>
GC-AP-MW-62HO	PH	pH	5/22/2023 12:22	5.81	SU
GC-AP-MW-62HO	SULFIDE	Sulfide	5/22/2023 12:22	0	mg/L
GC-AP-MW-62HO	TEMP	Temperature	5/22/2023 12:22	19.24	C
GC-AP-MW-62HO	TURB	Turbidity	5/22/2023 12:22	8.54	NTU

**Field Parameters Summary  
Greene County Ash Pond (Off-Site Well Locations)**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-63HO	COND	Conductivity	5/22/2023 13:03	54.72	uS/cm
GC-AP-MW-63HO	DO	DO	5/22/2023 13:03	7.59	mg/L
GC-AP-MW-63HO	DTW	Depth to Water Detail	5/22/2023 13:03	8.88	ft
GC-AP-MW-63HO	ORP	Oxidation Reduction Potention	5/22/2023 13:03	318.82	mv
GC-AP-MW-63HO	PH	pH	5/22/2023 13:03	4.8	SU
GC-AP-MW-63HO	TEMP	Temperature	5/22/2023 13:03	19.42	C
GC-AP-MW-63HO	TURB	Turbidity	5/22/2023 13:03	9.88	NTU
GC-AP-MW-63HO	COND	Conductivity	5/22/2023 13:08	71.22	uS/cm
GC-AP-MW-63HO	DO	DO	5/22/2023 13:08	7.01	mg/L
GC-AP-MW-63HO	DTW	Depth to Water Detail	5/22/2023 13:08	8.88	ft
GC-AP-MW-63HO	ORP	Oxidation Reduction Potention	5/22/2023 13:08	291.74	mv
GC-AP-MW-63HO	PH	pH	5/22/2023 13:08	5.11	SU
GC-AP-MW-63HO	TEMP	Temperature	5/22/2023 13:08	19.3	C
GC-AP-MW-63HO	TURB	Turbidity	5/22/2023 13:08	6.6	NTU
GC-AP-MW-63HO	COND	Conductivity	5/22/2023 13:13	73.56	uS/cm
GC-AP-MW-63HO	DO	DO	5/22/2023 13:13	6.89	mg/L
GC-AP-MW-63HO	DTW	Depth to Water Detail	5/22/2023 13:13	8.88	ft
GC-AP-MW-63HO	ORP	Oxidation Reduction Potention	5/22/2023 13:13	288.36	mv
GC-AP-MW-63HO	PH	pH	5/22/2023 13:13	5.08	SU
GC-AP-MW-63HO	TEMP	Temperature	5/22/2023 13:13	19.21	C
GC-AP-MW-63HO	TURB	Turbidity	5/22/2023 13:13	5.2	NTU
GC-AP-MW-63HO	COND	Conductivity	5/22/2023 13:18	72.28	uS/cm
GC-AP-MW-63HO	DO	DO	5/22/2023 13:18	6.92	mg/L
GC-AP-MW-63HO	DTW	Depth to Water Detail	5/22/2023 13:18	8.88	ft
GC-AP-MW-63HO	ORP	Oxidation Reduction Potention	5/22/2023 13:18	289.88	mv
GC-AP-MW-63HO	PH	pH	5/22/2023 13:18	5.05	SU
GC-AP-MW-63HO	SULFIDE	Sulfide	5/22/2023 13:18	0	mg/L
GC-AP-MW-63HO	TEMP	Temperature	5/22/2023 13:18	18.94	C
GC-AP-MW-63HO	TURB	Turbidity	5/22/2023 13:18	4.85	NTU

**Field Parameters Summary  
Greene County Ash Pond (Off-Site Well Locations)**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-46HO	COND	Conductivity	5/17/2023 9:45	391.45	uS/cm
GC-AP-MW-46HO	DO	DO	5/17/2023 9:45	1.09	mg/L
GC-AP-MW-46HO	DTW	Depth to Water Detail	5/17/2023 9:45	14.61	ft
GC-AP-MW-46HO	ORP	Oxidation Reduction Potention	5/17/2023 9:45	60.73	mv
GC-AP-MW-46HO	PH	pH	5/17/2023 9:45	6.78	SU
GC-AP-MW-46HO	TEMP	Temperature	5/17/2023 9:45	20.35	C
GC-AP-MW-46HO	TURB	Turbidity	5/17/2023 9:45	16.9	NTU
GC-AP-MW-46HO	COND	Conductivity	5/17/2023 9:50	392.31	uS/cm
GC-AP-MW-46HO	DO	DO	5/17/2023 9:50	1.18	mg/L
GC-AP-MW-46HO	DTW	Depth to Water Detail	5/17/2023 9:50	14.61	ft
GC-AP-MW-46HO	ORP	Oxidation Reduction Potention	5/17/2023 9:50	61.17	mv
GC-AP-MW-46HO	PH	pH	5/17/2023 9:50	6.77	SU
GC-AP-MW-46HO	TEMP	Temperature	5/17/2023 9:50	21.21	C
GC-AP-MW-46HO	TURB	Turbidity	5/17/2023 9:50	7.78	NTU
GC-AP-MW-46HO	COND	Conductivity	5/17/2023 9:55	386.58	uS/cm
GC-AP-MW-46HO	DO	DO	5/17/2023 9:55	0.32	mg/L
GC-AP-MW-46HO	DTW	Depth to Water Detail	5/17/2023 9:55	14.61	ft
GC-AP-MW-46HO	ORP	Oxidation Reduction Potention	5/17/2023 9:55	71.36	mv
GC-AP-MW-46HO	PH	pH	5/17/2023 9:55	6.72	SU
GC-AP-MW-46HO	TEMP	Temperature	5/17/2023 9:55	19.21	C
GC-AP-MW-46HO	TURB	Turbidity	5/17/2023 9:55	7.12	NTU
GC-AP-MW-46HO	COND	Conductivity	5/17/2023 10:00	390.81	uS/cm
GC-AP-MW-46HO	DO	DO	5/17/2023 10:00	0.2	mg/L
GC-AP-MW-46HO	DTW	Depth to Water Detail	5/17/2023 10:00	14.61	ft
GC-AP-MW-46HO	ORP	Oxidation Reduction Potention	5/17/2023 10:00	74.81	mv
GC-AP-MW-46HO	PH	pH	5/17/2023 10:00	6.71	SU
GC-AP-MW-46HO	TEMP	Temperature	5/17/2023 10:00	19.17	C
GC-AP-MW-46HO	TURB	Turbidity	5/17/2023 10:00	6.2	NTU
GC-AP-MW-46HO	COND	Conductivity	5/17/2023 10:05	393.88	uS/cm
GC-AP-MW-46HO	DO	DO	5/17/2023 10:05	0.18	mg/L
GC-AP-MW-46HO	DTW	Depth to Water Detail	5/17/2023 10:05	14.61	ft
GC-AP-MW-46HO	ORP	Oxidation Reduction Potention	5/17/2023 10:05	82.77	mv
GC-AP-MW-46HO	PH	pH	5/17/2023 10:05	6.7	SU
GC-AP-MW-46HO	SULFIDE	Sulfide	5/17/2023 10:05	0	mg/L
GC-AP-MW-46HO	TEMP	Temperature	5/17/2023 10:05	19.15	C
GC-AP-MW-46HO	TURB	Turbidity	5/17/2023 10:05	5.89	NTU

**Field Parameters Summary  
Greene County Ash Pond (Off-Site Well Locations)**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-64HO	COND	Conductivity	5/17/2023 8:33	467.4	uS/cm
GC-AP-MW-64HO	DO	DO	5/17/2023 8:33	0.23	mg/L
GC-AP-MW-64HO	DTW	Depth to Water Detail	5/17/2023 8:33	19.74	ft
GC-AP-MW-64HO	ORP	Oxidation Reduction Potention	5/17/2023 8:33	48.87	mv
GC-AP-MW-64HO	PH	pH	5/17/2023 8:33	6.9	SU
GC-AP-MW-64HO	TEMP	Temperature	5/17/2023 8:33	19.66	C
GC-AP-MW-64HO	TURB	Turbidity	5/17/2023 8:33	14.8	NTU
GC-AP-MW-64HO	COND	Conductivity	5/17/2023 8:38	466.9	uS/cm
GC-AP-MW-64HO	DO	DO	5/17/2023 8:38	0.17	mg/L
GC-AP-MW-64HO	DTW	Depth to Water Detail	5/17/2023 8:38	19.74	ft
GC-AP-MW-64HO	ORP	Oxidation Reduction Potention	5/17/2023 8:38	48.68	mv
GC-AP-MW-64HO	PH	pH	5/17/2023 8:38	6.89	SU
GC-AP-MW-64HO	TEMP	Temperature	5/17/2023 8:38	19.67	C
GC-AP-MW-64HO	TURB	Turbidity	5/17/2023 8:38	11.7	NTU
GC-AP-MW-64HO	COND	Conductivity	5/17/2023 8:43	467.39	uS/cm
GC-AP-MW-64HO	DO	DO	5/17/2023 8:43	0.13	mg/L
GC-AP-MW-64HO	DTW	Depth to Water Detail	5/17/2023 8:43	19.74	ft
GC-AP-MW-64HO	ORP	Oxidation Reduction Potention	5/17/2023 8:43	48.34	mv
GC-AP-MW-64HO	PH	pH	5/17/2023 8:43	6.87	SU
GC-AP-MW-64HO	TEMP	Temperature	5/17/2023 8:43	19.68	C
GC-AP-MW-64HO	TURB	Turbidity	5/17/2023 8:43	5.82	NTU
GC-AP-MW-64HO	COND	Conductivity	5/17/2023 8:48	468.66	uS/cm
GC-AP-MW-64HO	DO	DO	5/17/2023 8:48	0.11	mg/L
GC-AP-MW-64HO	DTW	Depth to Water Detail	5/17/2023 8:48	19.74	ft
GC-AP-MW-64HO	ORP	Oxidation Reduction Potention	5/17/2023 8:48	47.33	mv
GC-AP-MW-64HO	PH	pH	5/17/2023 8:48	6.87	SU
GC-AP-MW-64HO	TEMP	Temperature	5/17/2023 8:48	19.67	C
GC-AP-MW-64HO	TURB	Turbidity	5/17/2023 8:48	5.15	NTU
GC-AP-MW-64HO	COND	Conductivity	5/17/2023 8:53	468.99	uS/cm
GC-AP-MW-64HO	DO	DO	5/17/2023 8:53	0.09	mg/L
GC-AP-MW-64HO	DTW	Depth to Water Detail	5/17/2023 8:53	19.74	ft
GC-AP-MW-64HO	ORP	Oxidation Reduction Potention	5/17/2023 8:53	47.22	mv
GC-AP-MW-64HO	PH	pH	5/17/2023 8:53	6.86	SU
GC-AP-MW-64HO	SULFIDE	Sulfide	5/17/2023 8:53	0	mg/L
GC-AP-MW-64HO	TEMP	Temperature	5/17/2023 8:53	19.66	C
GC-AP-MW-64HO	TURB	Turbidity	5/17/2023 8:53	4.88	NTU

Alabama Power  
General Test Laboratory  
744 County Road 87, GSC #8  
Calera, AL 35040  
205-664-6001

# *Analytical Report*



**Sample Group :** WMWGREAP\_1410

**Project/Site :** Greene County Ash Pond  
Demopolis, AL 36732

**For :** Southern Company Services  
3535 Colonnade Parkway  
Birmingham, AL 35243

**Attention :** Dustin Brooks & Greg Dyer

**Released By :** Brooke Caton  
tbwill@southernco.com  
(205) 664-6101

July 10, 2023

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between May 18, 2023 and June 01, 2023. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114  
Issued By: State of Florida, Department of Health  
Expiration: June 30, 2024

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Quality Control: **Brooke  
Caton**

Digitally signed by Brooke  
Caton  
Date: 2023.07.11  
08:21:08 -05'00'

Supervision: **T Durant  
Maske**

Digitally signed by T Durant Maske  
DN: cn=T Durant Maske, gn=T Durant Maske c=US  
United States: u=US United States  
e=tdurmaske@southernco.com  
Reason: I am the author of this document  
Location:  
Date: 2023-07-11 13:58:05-00



### REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.  
This document shall not be reproduced, except in full, without written consent from  
Alabama Power's General Test Laboratory.



Total Metals ICP

Greene Co. Ash Pond

WMWGREAP\_1410

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09404	755728	WMWGREAP_1410
BD09405	755728	WMWGREAP_1410
BD09406	755728	WMWGREAP_1410
BD09407	755728	WMWGREAP_1410
BD09408	755728	WMWGREAP_1410
BD09409	755728	WMWGREAP_1410
BD09410	755728	WMWGREAP_1410
BD09411	755728	WMWGREAP_1410
BD09412	755728	WMWGREAP_1410
BD09413	755728	WMWGREAP_1410
BD09414	755729	WMWGREAP_1410
BD09415	755729	WMWGREAP_1410
BD09710	756403	WMWGREAP_1410
BD09711	756403	WMWGREAP_1410
BD09712	756403	WMWGREAP_1410
BD09713	756403	WMWGREAP_1410
BD09714	756403	WMWGREAP_1410
BD09715	756403	WMWGREAP_1410
BD09716	756403	WMWGREAP_1410
BD09717	756403	WMWGREAP_1410
BD09718	756403	WMWGREAP_1410
BD09719	756403	WMWGREAP_1410
BD09720	756404	WMWGREAP_1410
BD09721	756404	WMWGREAP_1410
BD09722	756404	WMWGREAP_1410
BD09723	756404	WMWGREAP_1410
BD09724	756404	WMWGREAP_1410
BD09875	756940	WMWGREAP_1410
BD09876	756940	WMWGREAP_1410
BD09877	756940	WMWGREAP_1410
BD09878	756940	WMWGREAP_1410
BD10166	756966	WMWGREAP_1410
BD10167	756966	WMWGREAP_1410



BD10168	756966	WMWGREAP_1410
BD10169	756966	WMWGREAP_1410
BD10170	756966	WMWGREAP_1410
BD10171	756966	WMWGREAP_1410
BD10172	756966	WMWGREAP_1410
BD10173	756966	WMWGREAP_1410
BD10174	756966	WMWGREAP_1410
BD10175	756966	WMWGREAP_1410
BD10176	756967	WMWGREAP_1410
BD10177	756967	WMWGREAP_1410
BD10178	756967	WMWGREAP_1410
BD10179	756967	WMWGREAP_1410
BD10180	756967	WMWGREAP_1410
BD10181	756967	WMWGREAP_1410
BD10182	756967	WMWGREAP_1410
BD10183	756967	WMWGREAP_1410
BD10184	756967	WMWGREAP_1410
BD10185	756967	WMWGREAP_1410
BD10186	756968	WMWGREAP_1410
BD10187	756968	WMWGREAP_1410
BD10188	756968	WMWGREAP_1410
BD10189	756968	WMWGREAP_1410
BD10190	756968	WMWGREAP_1410
BD10191	756968	WMWGREAP_1410
BD10192	756968	WMWGREAP_1410

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.

- The spectral interference check associated with EPA 200.7 was analyzed, and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
    - BD09413 Calcium, Iron, & Sodium MS/MSD spike levels were <30% of the sample concentrations.
    - BD09415 Calcium & Iron MS/MSD spike levels were <30% of the sample concentrations.
    - BD09878 Calcium, Iron, & Sodium MS/MSD spike levels were <30% of the sample concentrations.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09404	Calcium, Iron	10.15
BD09405	Calcium, Iron	101.5
BD09406	Calcium	10.15
BD09408	Calcium	10.15
BD09409	Calcium, Magnesium	10.15
BD09409	Iron	101.5
BD09410	Calcium, Iron	101.5
BD09411	Calcium, Iron	10.15
BD09413	Calcium, Sodium	10.15
BD09413	Iron	101.5
BD09414	Calcium, Sodium	10.15
BD09414	Iron	101.5
BD09415	Calcium, Iron	101.5
BD09710	Sodium	10.15
BD09711	Calcium, Iron, Sodium	10.15
BD09712	Calcium	10.15
BD09713	Calcium, Iron	101.5
BD09714	Calcium	10.15
BD09715	Calcium	10.15

## Case Narrative

BD09721	Iron	10.15
BD09722	Iron	10.15
BD09723	Calcium	10.15
BD09723	Iron	101.5
BD09875	Calcium, Iron	10.15
BD09876	Calcium, Iron	101.5
BD09877	Calcium, Iron	10.15
BD09878	Calcium, Iron, Sodium	10.15
BD10167	Calcium, Iron	101.5
BD10168	Calcium, Sodium	10.15
BD10169	Calcium, Sodium	10.15
BD10170	Calcium, Sodium	10.15
BD10171	Calcium, Iron, Sodium	10.15
BD10173	Calcium, Iron	10.15
BD10179	Calcium	10.15
BD10180	Calcium	10.15
BD10181	Calcium, Iron	10.15
BD10189	Calcium, Iron	10.15
BD10190	Calcium	10.15

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICP

Greene Co. Ash Pond

WMWGREAP\_1410

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09404	755675	WMWGREAP_1410
BD09405	755675	WMWGREAP_1410
BD09406	755675	WMWGREAP_1410
BD09407	755675	WMWGREAP_1410
BD09408	755675	WMWGREAP_1410
BD09409	755675	WMWGREAP_1410
BD09410	755675	WMWGREAP_1410
BD09411	755675	WMWGREAP_1410
BD09413	755675	WMWGREAP_1410
BD09414	755675	WMWGREAP_1410
BD09415	755676	WMWGREAP_1410
BD09710	756489	WMWGREAP_1410
BD09711	756489	WMWGREAP_1410
BD09712	756489	WMWGREAP_1410
BD09713	756489	WMWGREAP_1410
BD09714	756489	WMWGREAP_1410
BD09715	756489	WMWGREAP_1410
BD09716	756489	WMWGREAP_1410
BD09717	756489	WMWGREAP_1410
BD09718	756489	WMWGREAP_1410
BD09719	756489	WMWGREAP_1410
BD09720	756490	WMWGREAP_1410
BD09721	756490	WMWGREAP_1410
BD09722	756490	WMWGREAP_1410
BD09723	756490	WMWGREAP_1410
BD09875	756892	WMWGREAP_1410
BD09876	756892	WMWGREAP_1410
BD09877	756892	WMWGREAP_1410
BD09878	756892	WMWGREAP_1410
BD10167	756902	WMWGREAP_1410
BD10168	756902	WMWGREAP_1410
BD10169	756902	WMWGREAP_1410
BD10170	756902	WMWGREAP_1410

BD10171	756902	WMWGREAP_1410
BD10172	756902	WMWGREAP_1410
BD10173	756902	WMWGREAP_1410
BD10174	756902	WMWGREAP_1410
BD10176	756902	WMWGREAP_1410
BD10177	756902	WMWGREAP_1410
BD10178	756903	WMWGREAP_1410
BD10179	756903	WMWGREAP_1410
BD10180	756903	WMWGREAP_1410
BD10181	756903	WMWGREAP_1410
BD10183	756903	WMWGREAP_1410
BD10184	756903	WMWGREAP_1410
BD10185	756903	WMWGREAP_1410
BD10186	756903	WMWGREAP_1410
BD10187	756903	WMWGREAP_1410
BD10188	756903	WMWGREAP_1410
BD10189	756904	WMWGREAP_1410
BD10190	756904	WMWGREAP_1410
BD10192	756904	WMWGREAP_1410

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
    - BD09414 Calcium, Iron, & Sodium MS/MSD spike levels were <30% of the sample concentrations.
    - BD09415 Calcium & Iron MSD spike levels were <30% of the sample concentrations.
    - BD09723 Calcium & Iron MSD spike levels were <30% of the sample concentrations.
    - BD09878 Calcium, Iron, & Sodium MS/MSD spike levels were <30% of the sample concentrations.
  - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09404	Calcium, Iron	10.15
BD09405	Calcium, Iron	101.5
BD09406	Calcium	10.15
BD09408	Calcium	10.15
BD09409	Calcium, Magnesium	10.15
BD09409	Iron	101.5
BD09410	Calcium, Iron	101.5
BD09411	Calcium, Iron	10.15
BD09413	Calcium, Sodium	10.15
BD09413	Iron	101.5
BD09414	Calcium, Sodium	10.15
BD09414	Iron	101.5
BD09415	Calcium, Iron	101.5
BD09710	Sodium	10.15
BD09711	Calcium, Iron	10.15
BD09712	Calcium	10.15
BD09713	Calcium, Iron	101.5
BD09714	Calcium	10.15
BD09715	Calcium	10.15
BD09721	Iron	10.15
BD09722	Iron	10.15
BD09723	Calcium	10.15
BD09723	Iron	101.5
BD09875	Calcium, Iron	10.15
BD09876	Calcium, Iron	101.5

## Case Narrative

BD09877	Calcium, Iron	10.15
BD09878	Calcium, Iron, Sodium	10.15
BD10167	Calcium, Iron	101.5
BD10168	Calcium, Sodium	10.15
BD10169	Calcium, Sodium	10.15
BD10170	Calcium, Sodium	10.15
BD10171	Calcium, Iron, Sodium	10.15
BD10173	Calcium, Iron	10.15
BD10179	Calcium	10.15
BD10180	Calcium	10.15
BD10181	Calcium, Iron	10.15
BD10189	Calcium, Iron	10.15
BD10190	Calcium	10.15

8. The raw data results are shown with dilution factors included.

Total Metals ICPMS

Greene Co. Ash Pond

WMWGREAP\_1410

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09404	755981	WMWGREAP_1410
BD09405	755981	WMWGREAP_1410
BD09406	755981	WMWGREAP_1410
BD09407	755981	WMWGREAP_1410
BD09408	755981	WMWGREAP_1410
BD09409	755981	WMWGREAP_1410
BD09410	755981	WMWGREAP_1410
BD09411	755981	WMWGREAP_1410
BD09412	755981	WMWGREAP_1410
BD09413	755981	WMWGREAP_1410
BD09414	755982	WMWGREAP_1410
BD09415	755982	WMWGREAP_1410
BD09710	756887	WMWGREAP_1410
BD09711	756887	WMWGREAP_1410
BD09712	756887	WMWGREAP_1410
BD09713	756887	WMWGREAP_1410
BD09714	756887	WMWGREAP_1410
BD09715	756887	WMWGREAP_1410
BD09716	756887	WMWGREAP_1410
BD09717	756887	WMWGREAP_1410
BD09718	756887	WMWGREAP_1410
BD09719	756887	WMWGREAP_1410
BD09720	756888	WMWGREAP_1410
BD09721	756888	WMWGREAP_1410
BD09722	756888	WMWGREAP_1410
BD09723	756888	WMWGREAP_1410
BD09724	756888	WMWGREAP_1410
BD09875	757151	WMWGREAP_1410
BD09876	757151	WMWGREAP_1410
BD09877	757151	WMWGREAP_1410
BD09878	757151	WMWGREAP_1410
BD10166	757331	WMWGREAP_1410
BD10167	757331	WMWGREAP_1410



BD10168	757331	WMWGREAP_1410
BD10169	757331	WMWGREAP_1410
BD10170	757331	WMWGREAP_1410
BD10171	757331	WMWGREAP_1410
BD10172	757331	WMWGREAP_1410
BD10173	757331	WMWGREAP_1410
BD10174	757331	WMWGREAP_1410
BD10175	757331	WMWGREAP_1410
BD10176	757332	WMWGREAP_1410
BD10177	757332	WMWGREAP_1410
BD10178	757332	WMWGREAP_1410
BD10179	757332	WMWGREAP_1410
BD10180	757332	WMWGREAP_1410
BD10181	757332	WMWGREAP_1410
BD10182	757332	WMWGREAP_1410
BD10183	757332	WMWGREAP_1410
BD10184	757332	WMWGREAP_1410
BD10185	757332	WMWGREAP_1410
BD10186	757333	WMWGREAP_1410
BD10187	757333	WMWGREAP_1410
BD10188	757333	WMWGREAP_1410
BD10189	757333	WMWGREAP_1410
BD10190	757333	WMWGREAP_1410
BD10191	757333	WMWGREAP_1410
BD10192	757333	WMWGREAP_1410

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.

- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
    - BD09413 Arsenic MS/MSD spike levels were <30% of the sample concentrations.
    - BD09878 Manganese MS/MSD spike levels were <30% of the sample concentrations.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09404	Manganese	10.15
BD09405	Manganese	92.365
BD09406	Manganese	10.15
BD09409	Manganese	92.365
BD09410	Manganese	10.15
BD09411	Manganese	5.075
BD09413	Manganese	5.075
BD09414	Manganese	5.075
BD09711	Manganese	5.075
BD09712	Manganese	5.075
BD09713	Manganese	5.075
BD09715	Manganese	5.075
BD09723	Manganese	5.075
BD09875	Manganese	5.075
BD09876	Manganese	5.075
BD09877	Manganese	5.075
BD09878	Manganese	10.15
BD10167	Manganese	5.075
BD10171	Manganese	10.15
BD10173	Manganese	5.075
BD10174	Manganese	5.075
BD10178	Manganese	5.075
BD10181	Manganese	5.075
BD10189	Manganese	5.075

## Case Narrative

BD10190

Manganese

5.075

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Greene Co. Ash Pond

WMWGREAP\_1410

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09404	756115	WMWGREAP_1410
BD09405	756115	WMWGREAP_1410
BD09406	756115	WMWGREAP_1410
BD09407	756115	WMWGREAP_1410
BD09408	756115	WMWGREAP_1410
BD09409	756115	WMWGREAP_1410
BD09410	756115	WMWGREAP_1410
BD09411	756115	WMWGREAP_1410
BD09413	756115	WMWGREAP_1410
BD09414	756115	WMWGREAP_1410
BD09415	756116	WMWGREAP_1410
BD09710	756767	WMWGREAP_1410
BD09711	756767	WMWGREAP_1410
BD09712	756767	WMWGREAP_1410
BD09713	756767	WMWGREAP_1410
BD09714	756767	WMWGREAP_1410
BD09715	756767	WMWGREAP_1410
BD09716	756767	WMWGREAP_1410
BD09717	756767	WMWGREAP_1410
BD09718	756767	WMWGREAP_1410
BD09719	756767	WMWGREAP_1410
BD09720	756768	WMWGREAP_1410
BD09721	756768	WMWGREAP_1410
BD09722	756768	WMWGREAP_1410
BD09723	756768	WMWGREAP_1410
BD09875	757123	WMWGREAP_1410
BD09876	757123	WMWGREAP_1410
BD09877	757123	WMWGREAP_1410
BD09878	757123	WMWGREAP_1410
BD10167	757153	WMWGREAP_1410
BD10168	757153	WMWGREAP_1410
BD10169	757153	WMWGREAP_1410
BD10170	757153	WMWGREAP_1410

BD10171	757153	WMWGREAP_1410
BD10172	757153	WMWGREAP_1410
BD10173	757153	WMWGREAP_1410
BD10174	757153	WMWGREAP_1410
BD10176	757153	WMWGREAP_1410
BD10177	757153	WMWGREAP_1410
BD10178	757154	WMWGREAP_1410
BD10179	757154	WMWGREAP_1410
BD10180	757154	WMWGREAP_1410
BD10181	757154	WMWGREAP_1410
BD10183	757154	WMWGREAP_1410
BD10184	757154	WMWGREAP_1410
BD10185	757154	WMWGREAP_1410
BD10186	757154	WMWGREAP_1410
BD10187	757154	WMWGREAP_1410
BD10188	757154	WMWGREAP_1410
BD10189	757155	WMWGREAP_1410
BD10190	757155	WMWGREAP_1410
BD10192	757155	WMWGREAP_1410

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
    - BD09413 Manganese MS/MSD spike levels were <30% of the sample concentrations.
    - BD09878 Manganese MS/MSD spike levels were <30% of the sample concentrations.
  - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09404	Manganese	10.15
BD09405	Manganese	92.365
BD09406	Manganese	10.15
BD09409	Manganese	92.365
BD09410	Manganese	10.15
BD09411	Manganese	5.075
BD09413	Manganese	5.075
BD09414	Manganese	5.075
BD09711	Manganese	5.075
BD09712	Manganese	5.075
BD09713	Manganese	5.075
BD09715	Manganese	5.075
BD09723	Manganese	5.075
BD09875	Manganese	5.075
BD09876	Manganese	5.075
BD09877	Manganese	5.075
BD09878	Manganese	10.15
BD10167	Manganese	5.075
BD10171	Manganese	10.15
BD10173	Manganese	5.075
BD10174	Manganese	5.075
BD10178	Manganese	5.075
BD10181	Manganese	5.075
BD10189	Manganese	5.075
BD10190	Manganese	5.075

8. The raw data results are shown with dilution factors included.

Mercury

Greene Co. Ash Pond

WMWGREAP\_1410

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09404	755820	WMWGREAP_1410
BD09405	755820	WMWGREAP_1410
BD09406	755820	WMWGREAP_1410
BD09407	755820	WMWGREAP_1410
BD09408	755820	WMWGREAP_1410
BD09409	755820	WMWGREAP_1410
BD09410	755820	WMWGREAP_1410
BD09411	755820	WMWGREAP_1410
BD09412	755820	WMWGREAP_1410
BD09413	755820	WMWGREAP_1410
BD09414	755821	WMWGREAP_1410
BD09415	755821	WMWGREAP_1410
BD09710	756365	WMWGREAP_1410
BD09711	756365	WMWGREAP_1410
BD09712	756365	WMWGREAP_1410
BD09713	756365	WMWGREAP_1410
BD09714	756365	WMWGREAP_1410
BD09715	756365	WMWGREAP_1410
BD09716	756365	WMWGREAP_1410
BD09717	756365	WMWGREAP_1410
BD09718	756365	WMWGREAP_1410
BD09719	756365	WMWGREAP_1410
BD09720	756366	WMWGREAP_1410
BD09721	756366	WMWGREAP_1410
BD09722	756366	WMWGREAP_1410
BD09723	756366	WMWGREAP_1410
BD09724	756366	WMWGREAP_1410
BD09875	756366	WMWGREAP_1410
BD09876	756366	WMWGREAP_1410
BD09877	756366	WMWGREAP_1410
BD09878	756366	WMWGREAP_1410
BD10166	757334	WMWGREAP_1410
BD10167	757334	WMWGREAP_1410

BD10168	757334	WMWGREAP_1410
BD10169	757334	WMWGREAP_1410
BD10170	757334	WMWGREAP_1410
BD10171	757334	WMWGREAP_1410
BD10172	757334	WMWGREAP_1410
BD10173	757334	WMWGREAP_1410
BD10174	757334	WMWGREAP_1410
BD10175	757334	WMWGREAP_1410
BD10176	757335	WMWGREAP_1410
BD10177	757335	WMWGREAP_1410
BD10178	757335	WMWGREAP_1410
BD10179	757335	WMWGREAP_1410
BD10180	757335	WMWGREAP_1410
BD10181	757335	WMWGREAP_1410
BD10182	757335	WMWGREAP_1410
BD10183	757335	WMWGREAP_1410
BD10184	757335	WMWGREAP_1410
BD10185	757335	WMWGREAP_1410
BD10186	757336	WMWGREAP_1410
BD10187	757336	WMWGREAP_1410
BD10188	757336	WMWGREAP_1410
BD10189	757336	WMWGREAP_1410
BD10190	757336	WMWGREAP_1410
BD10191	757336	WMWGREAP_1410
BD10192	757336	WMWGREAP_1410

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.



- All response signals were satisfactory.

#### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.

Total Dissolved Solids

Greene Co. Ash Pond

WMWGREAP\_1410

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09404	755662	WMWGREAP_1410
BD09405	755662	WMWGREAP_1410
BD09406	755662	WMWGREAP_1410
BD09407	755662	WMWGREAP_1410
BD09408	755662	WMWGREAP_1410
BD09409	755662	WMWGREAP_1410
BD09410	755662	WMWGREAP_1410
BD09411	755662	WMWGREAP_1410
BD09412	755662	WMWGREAP_1410
BD09413	755804	WMWGREAP_1410
BD09414	755804	WMWGREAP_1410
BD09415	755804	WMWGREAP_1410
BD09710	756301	WMWGREAP_1410
BD09711	756301	WMWGREAP_1410
BD09712	756301	WMWGREAP_1410
BD09713	756301	WMWGREAP_1410
BD09714	756301	WMWGREAP_1410
BD09715	756302	WMWGREAP_1410
BD09716	756302	WMWGREAP_1410
BD09717	756302	WMWGREAP_1410
BD09718	756302	WMWGREAP_1410
BD09719	756302	WMWGREAP_1410
BD09720	756302	WMWGREAP_1410
BD09721	756302	WMWGREAP_1410
BD09722	756302	WMWGREAP_1410
BD09723	756302	WMWGREAP_1410
BD09724	756302	WMWGREAP_1410
BD09875	756525	WMWGREAP_1410
BD09876	756525	WMWGREAP_1410
BD09877	756525	WMWGREAP_1410
BD09878	756525	WMWGREAP_1410
BD10166	756724	WMWGREAP_1410
BD10167	756724	WMWGREAP_1410

BD10168	756724	WMWGREAP_1410
BD10169	756724	WMWGREAP_1410
BD10170	756724	WMWGREAP_1410
BD10171	756724	WMWGREAP_1410
BD10172	756725	WMWGREAP_1410
BD10173	756725	WMWGREAP_1410
BD10174	756725	WMWGREAP_1410
BD10175	756725	WMWGREAP_1410
BD10176	756725	WMWGREAP_1410
BD10177	756725	WMWGREAP_1410
BD10178	756725	WMWGREAP_1410
BD10179	756725	WMWGREAP_1410
BD10180	756725	WMWGREAP_1410
BD10181	756725	WMWGREAP_1410
BD10182	756726	WMWGREAP_1410
BD10183	756726	WMWGREAP_1410
BD10184	756726	WMWGREAP_1410
BD10185	756726	WMWGREAP_1410
BD10186	756726	WMWGREAP_1410
BD10187	756726	WMWGREAP_1410
BD10188	756726	WMWGREAP_1410
BD10189	756727	WMWGREAP_1410
BD10190	756726	WMWGREAP_1410
BD10191	756726	WMWGREAP_1410
BD10192	756726	WMWGREAP_1410

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was  $\leq 10\%$ .
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue  $< 2.5\text{mg}$  had the maximum volume of 150mL filtered. Affected samples are as follows:
  - BD09412
  - BD09724
  - BD10166
  - BD10175
  - BD10182

## **Case Narrative**

- BD10184
- BD10191

Alkalinity

Greene Co. Ash Pond

WMWGREAP\_1410

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09404	756426, 756427, 756428	WMWGREAP_1410
BD09405	756426, 756427, 756428	WMWGREAP_1410
BD09406	756553, 756554, 756555	WMWGREAP_1410
BD09407	756426, 756427, 756428	WMWGREAP_1410
BD09408	756426, 756427, 756428	WMWGREAP_1410
BD09409	756426, 756427, 756428	WMWGREAP_1410
BD09410	756426, 756427, 756428	WMWGREAP_1410
BD09411	756426, 756427, 756428	WMWGREAP_1410
BD09413	756553, 756554, 756555	WMWGREAP_1410
BD09414	756553, 756554, 756555	WMWGREAP_1410
BD09415	756553, 756554, 756555	WMWGREAP_1410
BD09710	757080, 757081, 757082	WMWGREAP_1410
BD09711	757080, 757081, 757082	WMWGREAP_1410
BD09712	757080, 757081, 757082	WMWGREAP_1410
BD09713	757080, 757081, 757082	WMWGREAP_1410
BD09714	757080, 757081, 757082	WMWGREAP_1410
BD09715	757080, 757081, 757082	WMWGREAP_1410
BD09716	757080, 757081, 757082	WMWGREAP_1410
BD09717	757080, 757081, 757082	WMWGREAP_1410
BD09718	757080, 757081, 757082	WMWGREAP_1410
BD09719	757080, 757081, 757082	WMWGREAP_1410
BD09720	757080, 757081, 757082	WMWGREAP_1410
BD09721	757284, 757285, 757286	WMWGREAP_1410
BD09722	757284, 757285, 757286	WMWGREAP_1410
BD09723	757284, 757285, 757286	WMWGREAP_1410
BD09875	757284, 757285, 757286	WMWGREAP_1410
BD09876	757284, 757285, 757286	WMWGREAP_1410
BD09877	757284, 757285, 757286	WMWGREAP_1410
BD09878	757284, 757285, 757286	WMWGREAP_1410
BD10167	757620, 757621, 757622	WMWGREAP_1410
BD10168	757620, 757621, 757622	WMWGREAP_1410
BD10169	757667, 757668, 757669	WMWGREAP_1410
BD10170	757667, 757668, 757669	WMWGREAP_1410

BD10171	757667, 757668, 757669	WMWGREAP_1410
BD10172	757667, 757668, 757669	WMWGREAP_1410
BD10173	757620, 757621, 757622	WMWGREAP_1410
BD10174	757620, 757621, 757622	WMWGREAP_1410
BD10176	757620, 757621, 757622	WMWGREAP_1410
BD10177	757620, 757621, 757622	WMWGREAP_1410
BD10178	757667, 757668, 757669	WMWGREAP_1410
BD10179	757667, 757668, 757669	WMWGREAP_1410
BD10180	757710, 757711, 757712	WMWGREAP_1410
BD10181	757710, 757711, 757712	WMWGREAP_1410
BD10183	757620, 757621, 757622	WMWGREAP_1410
BD10184	757620, 757621, 757622	WMWGREAP_1410
BD10185	757667, 757668, 757669	WMWGREAP_1410
BD10186	757667, 757668, 757669	WMWGREAP_1410
BD10187	757667, 757668, 757669	WMWGREAP_1410
BD10188	757667, 757668, 757669	WMWGREAP_1410
BD10189	757710, 757711, 757712	WMWGREAP_1410
BD10190	757710, 757711, 757712	WMWGREAP_1410
BD10192	757710, 757711, 757712	WMWGREAP_1410

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
  - A final pH check was analyzed with each batch. The acceptance criteria were met.
  - An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
  - An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.
7. The following samples had pH>10 and/or TDS>500mg/L. Therefore, the calculations for carbonate and bicarbonate are estimates:
    - BD09404
    - BD09405
    - BD09409
    - BD09410
    - BD09413
    - BD09414
    - BD09712
    - BD09713
    - BD09876
    - BD09877

## Case Narrative

- BD09878
- BD10168
- BD10169
- BD10170
- BD10171
- BD10181
- BD10189

Anions

Greene Co. Ash Pond

WMWGREAP\_1410

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09404	756407, 756409, 755788	WMWGREAP_1410
BD09405	756407, 756409, 755788	WMWGREAP_1410
BD09406	756407, 756409, 755788	WMWGREAP_1410
BD09407	756407, 756409, 755788	WMWGREAP_1410
BD09408	756407, 756409, 755788	WMWGREAP_1410
BD09409	756407, 756409, 755788	WMWGREAP_1410
BD09410	756407, 756409, 755788	WMWGREAP_1410
BD09411	756407, 756409, 755788	WMWGREAP_1410
BD09412	756407, 756409, 755788	WMWGREAP_1410
BD09413	756407, 756409, 755788	WMWGREAP_1410
BD09414	756408, 756410, 755789	WMWGREAP_1410
BD09415	756408, 756410, 755789	WMWGREAP_1410
BD09710	756419, 756421, 757354	WMWGREAP_1410
BD09711	756419, 756421, 757354	WMWGREAP_1410
BD09712	756419, 756421, 757354	WMWGREAP_1410
BD09713	756419, 756421, 757354	WMWGREAP_1410
BD09714	756419, 756421, 757354	WMWGREAP_1410
BD09715	756419, 756421, 757354	WMWGREAP_1410
BD09716	756419, 756421, 757354	WMWGREAP_1410
BD09717	756419, 756421, 757354	WMWGREAP_1410
BD09718	756419, 756421, 757354	WMWGREAP_1410
BD09719	756419, 756421, 757354	WMWGREAP_1410
BD09720	756420, 756422, 757355	WMWGREAP_1410
BD09721	756420, 756422, 757355	WMWGREAP_1410
BD09722	756420, 756422, 757355	WMWGREAP_1410
BD09723	756420, 756422, 757355	WMWGREAP_1410
BD09724	756420, 756422, 757355	WMWGREAP_1410
BD09875	757431, 756423, 757355	WMWGREAP_1410
BD09876	757431, 756423, 757355	WMWGREAP_1410
BD09877	757431, 756423, 757355	WMWGREAP_1410
BD09878	757431, 756423, 757355	WMWGREAP_1410



BD10166	757431, 757605, 757372	WMWGREAP_1410
BD10167	757431, 757605, 757372	WMWGREAP_1410
BD10168	757431, 757605, 757372	WMWGREAP_1410
BD10169	757431, 757605, 757372	WMWGREAP_1410
BD10170	757431, 757605, 757372	WMWGREAP_1410
BD10171	757431, 757605, 757372	WMWGREAP_1410
BD10172	757432, 757605, 757372	WMWGREAP_1410
BD10173	757432, 757605, 757372	WMWGREAP_1410
BD10174	757432, 757605, 757372	WMWGREAP_1410
BD10175	757432, 757605, 757372	WMWGREAP_1410
BD10176	757432, 757606, 757373	WMWGREAP_1410
BD10177	757432, 757606, 757373	WMWGREAP_1410
BD10178	757432, 757606, 757373	WMWGREAP_1410
BD10179	757432, 757606, 757373	WMWGREAP_1410
BD10180	757432, 757606, 757373	WMWGREAP_1410
BD10181	757432, 757606, 757373	WMWGREAP_1410
BD10182	757433, 757606, 757373	WMWGREAP_1410
BD10183	757433, 757606, 757373	WMWGREAP_1410
BD10184	757433, 757606, 757373	WMWGREAP_1410
BD10185	757433, 757606, 757373	WMWGREAP_1410
BD10186	757433, 757607, 757374	WMWGREAP_1410
BD10187	757433, 757607, 757374	WMWGREAP_1410
BD10188	757433, 757607, 757374	WMWGREAP_1410
BD10189	757433, 757607, 757374	WMWGREAP_1410
BD10190	757433, 757607, 757374	WMWGREAP_1410
BD10191	757433, 757607, 757374	WMWGREAP_1410
BD10192	757434, 757607, 757374	WMWGREAP_1410

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.

- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.

OR

The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09404	Sulfate	20
BD09405	Chloride, Sulfate	4, 32
BD09406	Sulfate	8
BD09408	Sulfate	4
BD09409	Sulfate	40
BD09410	Sulfate	32
BD09411	Sulfate	8
BD09413	Sulfate	5
BD09414	Sulfate	4
BD09415	Chloride	4
BD09711	Chloride	2
BD09712	Sulfate	16
BD09713	Sulfate	25
BD09715	Sulfate	8
BD09721	Sulfate	3
BD09722	Sulfate	3
BD09723	Sulfate	4
BD09875	Sulfate	8
BD09876	Sulfate	10
BD09878	Chloride, Sulfate	3, 8
BD10167	Sulfate	3

## Case Narrative

BD10168	Chloride, Sulfate	4, 10
BD10169	Chloride, Sulfate	16, 16
BD10170	Chloride, Sulfate	10, 3
BD10171	Chloride, Sulfate	16, 6
BD10172	Sulfate	3
BD10173	Sulfate	6
BD10174	Sulfate	6
BD10178	Sulfate	4
BD10179	Sulfate	4
BD10180	Sulfate	8
BD10181	Sulfate	16
BD10189	Sulfate	2
BD10190	Sulfate	16

8. The raw data results are shown with dilution factors included.

Nitrate-Nitrite

Greene Co. Ash Pond

WMWGREAP\_1410

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09404	755798	WMWGREAP_1410
BD09405	755798	WMWGREAP_1410
BD09406	755798	WMWGREAP_1410
BD09407	755798	WMWGREAP_1410
BD09408	755798	WMWGREAP_1410
BD09409	755798	WMWGREAP_1410
BD09410	755798	WMWGREAP_1410
BD09411	755798	WMWGREAP_1410
BD09412	755798	WMWGREAP_1410
BD09413	755798	WMWGREAP_1410
BD09414	755799	WMWGREAP_1410
BD09415	755799	WMWGREAP_1410
BD09710	756451	WMWGREAP_1410
BD09711	756451	WMWGREAP_1410
BD09712	756451	WMWGREAP_1410
BD09713	756451	WMWGREAP_1410
BD09714	756451	WMWGREAP_1410
BD09715	756451	WMWGREAP_1410
BD09716	756451	WMWGREAP_1410
BD09717	756451	WMWGREAP_1410
BD09718	756451	WMWGREAP_1410
BD09719	756451	WMWGREAP_1410
BD09720	756452	WMWGREAP_1410
BD09721	756452	WMWGREAP_1410
BD09722	756452	WMWGREAP_1410
BD09723	756452	WMWGREAP_1410
BD09724	756452	WMWGREAP_1410
BD09875	756452	WMWGREAP_1410
BD09876	756452	WMWGREAP_1410
BD09877	756452	WMWGREAP_1410
BD09878	756452	WMWGREAP_1410

BD10166	756686	WMWGREAP_1410
BD10167	756686	WMWGREAP_1410
BD10168	756686	WMWGREAP_1410
BD10169	756686	WMWGREAP_1410
BD10170	756686	WMWGREAP_1410
BD10171	756686	WMWGREAP_1410
BD10172	756686	WMWGREAP_1410
BD10173	756686	WMWGREAP_1410
BD10174	756686	WMWGREAP_1410
BD10175	756686	WMWGREAP_1410
BD10176	756687	WMWGREAP_1410
BD10177	756687	WMWGREAP_1410
BD10178	756687	WMWGREAP_1410
BD10179	756687	WMWGREAP_1410
BD10180	756687	WMWGREAP_1410
BD10181	756687	WMWGREAP_1410
BD10182	756687	WMWGREAP_1410
BD10183	756687	WMWGREAP_1410
BD10184	756687	WMWGREAP_1410
BD10185	756687	WMWGREAP_1410
BD10186	756688	WMWGREAP_1410
BD10187	756688	WMWGREAP_1410
BD10188	756688	WMWGREAP_1410
BD10189	756688	WMWGREAP_1410
BD10190	756688	WMWGREAP_1410
BD10191	756688	WMWGREAP_1410
BD10192	756688	WMWGREAP_1410

4. All of the above samples were prepared and analyzed for NO<sub>x</sub> by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

### EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
  - Matrix Specific QC:
    - A sample duplicate was run and criteria for precision was met.
    - A matrix spike was run and criteria for accuracy was met, except for the following:
      - BD09415 MS recovery and/or MSD recovery is outside of specification limit.
      - BD09878 MS recovery and/or MSD recovery passes using values below the detection limit.
7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Greene Co. Ash Pond

WMWGREAP\_1410

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09404	755763	WMWGREAP_1410
BD09405	755763	WMWGREAP_1410
BD09406	755763	WMWGREAP_1410
BD09407	755763	WMWGREAP_1410
BD09408	755763	WMWGREAP_1410
BD09409	755763	WMWGREAP_1410
BD09410	755763	WMWGREAP_1410
BD09411	755763	WMWGREAP_1410
BD09412	755763	WMWGREAP_1410
BD09413	755763	WMWGREAP_1410
BD09414	755764	WMWGREAP_1410
BD09415	755764	WMWGREAP_1410
BD09710	756308	WMWGREAP_1410
BD09711	756308	WMWGREAP_1410
BD09712	756308	WMWGREAP_1410
BD09713	756308	WMWGREAP_1410
BD09714	756308	WMWGREAP_1410
BD09715	756308	WMWGREAP_1410
BD09716	756308	WMWGREAP_1410
BD09717	756308	WMWGREAP_1410
BD09718	756308	WMWGREAP_1410
BD09719	756308	WMWGREAP_1410
BD09720	756360	WMWGREAP_1410
BD09721	756360	WMWGREAP_1410
BD09722	756360	WMWGREAP_1410
BD09723	756360	WMWGREAP_1410
BD09724	756360	WMWGREAP_1410
BD09875	756360	WMWGREAP_1410
BD09876	756360	WMWGREAP_1410
BD09877	756360	WMWGREAP_1410
BD09878	756360	WMWGREAP_1410
BD10166	756889	WMWGREAP_1410
BD10167	756889	WMWGREAP_1410

BD10168	756889	WMWGREAP_1410
BD10169	756889	WMWGREAP_1410
BD10170	756889	WMWGREAP_1410
BD10171	756889	WMWGREAP_1410
BD10172	756889	WMWGREAP_1410
BD10173	756889	WMWGREAP_1410
BD10174	756889	WMWGREAP_1410
BD10175	756889	WMWGREAP_1410
BD10176	756890	WMWGREAP_1410
BD10177	756890	WMWGREAP_1410
BD10178	756890	WMWGREAP_1410
BD10179	756890	WMWGREAP_1410
BD10180	756890	WMWGREAP_1410
BD10181	756890	WMWGREAP_1410
BD10182	756890	WMWGREAP_1410
BD10183	756890	WMWGREAP_1410
BD10184	756890	WMWGREAP_1410
BD10185	756890	WMWGREAP_1410
BD10186	756891	WMWGREAP_1410
BD10187	756891	WMWGREAP_1410
BD10188	756891	WMWGREAP_1410
BD10189	756891	WMWGREAP_1410
BD10190	756891	WMWGREAP_1410
BD10191	756891	WMWGREAP_1410
BD10192	756891	WMWGREAP_1410

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was  $<1/2RL$ .
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were  $<1/2RL$ .

#### Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.



- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
  8. The raw data results are shown with dilution factors included.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-44H

**Location Code:** WMWGREAP  
**Collected:** 5/16/23 08:28  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09404

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/19/23 11:37	5/22/23 13:42		1.015	0.201	mg/L	0.030000	0.1015	
* Calcium, Total	5/19/23 11:37	5/24/23 11:47		10.15	132	mg/L	0.70035	4.06	
* Iron, Total	5/19/23 11:37	5/24/23 11:47		10.15	8.80	mg/L	0.08120	0.406	
* Lithium, Total	5/19/23 11:37	5/22/23 13:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/19/23 11:37	5/22/23 13:42		1.015	18.0	mg/L	0.021315	0.406	
* Molybdenum, Total	5/19/23 11:37	5/22/23 13:42		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 13:42		1	9.57	mg/L			
* Silicon, Total	5/19/23 11:37	5/22/23 13:42		1.015	4.47	mg/L	0.02030	0.25375	
* Sodium, Total	5/19/23 11:37	5/22/23 13:42		1.015	27.7	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/19/23 08:47	5/19/23 10:49		1.015	0.195	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/19/23 08:47	5/19/23 14:07		10.15	115	mg/L	0.70035	4.06	
* Iron, Dissolved	5/19/23 08:47	5/19/23 14:07		10.15	7.61	mg/L	0.08120	0.406	
* Lithium, Dissolved	5/19/23 08:47	5/19/23 10:49		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/19/23 08:47	5/19/23 10:49		1.015	17.4	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/19/23 08:47	5/19/23 10:49		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/19/23 08:47	5/19/23 10:49		1	9.37	mg/L			
* Silicon, Dissolved	5/19/23 08:47	5/19/23 10:49		1.015	4.38	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/19/23 08:47	5/19/23 10:49		1.015	27.4	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/19/23 11:37	5/19/23 18:58		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	5/19/23 11:37	5/19/23 18:58		1.015	0.00200	mg/L	0.000112	0.000203	
* Aluminum, Total	5/19/23 11:37	5/19/23 18:58		1.015	0.0891	mg/L	0.009135	0.05075	
* Barium, Total	5/19/23 11:37	5/19/23 18:58		1.015	0.0481	mg/L	0.000508	0.001015	
* Beryllium, Total	5/19/23 11:37	5/19/23 18:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/19/23 11:37	5/19/23 18:58		1.015	0.000190	mg/L	0.000068	0.000203	J
* Chromium, Total	5/19/23 11:37	5/19/23 18:58		1.015	0.000387	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/19/23 11:37	5/19/23 18:58		1.015	0.250	mg/L	0.000068	0.000203	
* Lead, Total	5/19/23 11:37	5/19/23 18:58		1.015	0.0000731	mg/L	0.000068	0.000203	J
* Manganese, Total	5/19/23 11:37	5/19/23 20:09		10.15	7.77	mg/L	0.001522	0.01015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-44H

**Location Code:** WMWGREAP  
**Collected:** 5/16/23 08:28  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09404

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/19/23 11:37	5/19/23 18:58		1.015	2.93	mg/L	0.169505	0.5075	
* Selenium, Total	5/19/23 11:37	5/19/23 18:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/19/23 11:37	5/19/23 18:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/19/23 08:47	5/19/23 11:41		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/19/23 08:47	5/19/23 11:41		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/19/23 08:47	5/22/23 09:31		1.015	0.00168	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/19/23 08:47	5/19/23 11:41		1.015	0.0474	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/19/23 08:47	5/19/23 11:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/19/23 08:47	5/19/23 11:41		1.015	0.000187	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	5/19/23 08:47	5/19/23 11:41		1.015	0.000229	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/19/23 08:47	5/19/23 11:41		1.015	0.257	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/19/23 08:47	5/19/23 11:41		1.015	0.000106	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	5/19/23 08:47	5/19/23 13:41		10.15	7.79	mg/L	0.001522	0.01015	
* Potassium, Dissolved	5/19/23 08:47	5/19/23 11:41		1.015	2.88	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/19/23 08:47	5/19/23 11:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/19/23 08:47	5/19/23 11:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	5/19/23 18:40	5/19/23 22:47		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	5/19/23 12:41	5/19/23 12:41		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/24/23 10:42	5/24/23 13:43		1	83.0	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/18/23 13:20	5/22/23 10:19		1	545	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/24/23 10:42	5/24/23 13:43		1	83.0	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/24/23 10:42	5/24/23 13:43		1	Not Detected	mg CaCO3/L		0.5	A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 12:37	5/22/23 12:37		1	1.05	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-44H

**Location Code:** WMWGREAP

**Collected:** 5/16/23 08:28

**Customer ID:**

**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09404

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 10:48	5/24/23 10:48		1	14.9	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 09:23	5/25/23 09:23		1	0.114	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 14:33	5/18/23 14:33		20	308	mg/L	12.0	40	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	5/16/23 08:24	5/16/23 08:24			767.60	uS/cm			FA
pH	5/16/23 08:24	5/16/23 08:24			6.14	SU			FA
Temperature	5/16/23 08:24	5/16/23 08:24			18.10	C			FA
Turbidity	5/16/23 08:24	5/16/23 08:24			7.35	NTU			FA
Sulfide	5/16/23 08:24	5/16/23 08:24			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/16/23 08:28

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-44H

**Laboratory ID Number:** BD09404

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD09414	Aluminum, Dissolved	mg/L	0.000272	0.0198	0.100	0.0961	0.0987	0.102	0.0850 to 0.115	96.1	70.0 to 130	2.67	20.0
BD09413	Aluminum, Total	mg/L	0.000592	0.0198	0.100	0.106	0.110	0.105	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BD09414	Antimony, Dissolved	mg/L	0.000372	0.00100	0.100	0.100	0.102	0.0957	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD09413	Antimony, Total	mg/L	0.000506	0.00100	0.100	0.110	0.113	0.0980	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD09414	Arsenic, Dissolved	mg/L	0.0000295	0.000200	0.100	1.12	1.12	0.102	0.0850 to 0.115	120	70.0 to 130	0.00	20.0
BD09413	Arsenic, Total	mg/L	0.0000479	0.000200	0.100	1.17	1.21	0.103	0.0850 to 0.115	110	70.0 to 130	3.36	20.0
BD09414	Barium, Dissolved	mg/L	0.0000666	0.00100	0.100	0.391	0.392	0.107	0.0850 to 0.115	104	70.0 to 130	0.255	20.0
BD09413	Barium, Total	mg/L	0.0000335	0.00100	0.100	0.393	0.413	0.108	0.0850 to 0.115	102	70.0 to 130	4.96	20.0
BD09414	Beryllium, Dissolved	mg/L	0.0000326	0.000880	0.100	0.0916	0.0943	0.101	0.0850 to 0.115	91.6	70.0 to 130	2.90	20.0
BD09413	Beryllium, Total	mg/L	0.0000362	0.000880	0.100	0.109	0.110	0.0979	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BD09414	Boron, Dissolved	mg/L	-0.00223	0.0650	1.00	3.44	3.45	1.01	0.850 to 1.15	102	70.0 to 130	0.290	20.0
BD09413	Boron, Total	mg/L	-0.000214	0.0650	1.00	3.51	3.53	1.04	0.850 to 1.15	103	70.0 to 130	0.568	20.0
BD09414	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD09413	Cadmium, Total	mg/L	0.0000112	0.000147	0.100	0.105	0.108	0.105	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BD09414	Calcium, Dissolved	mg/L	-0.0003	0.152	5.00	145	149	5.10	4.25 to 5.75	60.0	70.0 to 130	2.72	20.0
BD09413	Calcium, Total	mg/L	0.00227	0.152	5.00	140	140	5.20	4.25 to 5.75	-140	70.0 to 130	0.00	20.0
BD09413	Chloride	mg/L	0.0255	1.00	10.0	19.7	19.7	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0
BD09414	Chromium, Dissolved	mg/L	0.0000152	0.000440	0.100	0.0977	0.0997	0.103	0.0850 to 0.115	97.4	70.0 to 130	2.03	20.0
BD09413	Chromium, Total	mg/L	0.0000119	0.000440	0.100	0.102	0.105	0.103	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD09414	Cobalt, Dissolved	mg/L	-0.0000463	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	98.6	70.0 to 130	1.85	20.0
BD09413	Cobalt, Total	mg/L	-0.0000426	0.000147	0.100	0.111	0.115	0.106	0.0850 to 0.115	103	70.0 to 130	3.54	20.0
BD09413	Fluoride	mg/L	0.0418	0.125	2.50	3.15	3.23	2.60	2.25 to 2.75	105	80.0 to 120	2.51	20.0
BD09414	Iron, Dissolved	mg/L	0.00336	0.0176	0.2	39.6	40.2	0.205	0.170 to 0.230	250	70.0 to 130	1.50	20.0
BD09413	Iron, Total	mg/L	0.00162	0.0176	0.2	39.4	39.1	0.204	0.170 to 0.230	450	70.0 to 130	0.764	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/16/23 08:28

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-44H

**Laboratory ID Number:** BD09404

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09414	Lead, Dissolved	mg/L	0.000015	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09413	Lead, Total	mg/L	0.0000146	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09414	Lithium, Dissolved	mg/L	0.000031	0.0154	0.200	0.905	0.907	0.199	0.170 to 0.230	98.5	70.0 to 130	0.221	20.0
BD09413	Lithium, Total	mg/L	0.000312	0.0154	0.200	0.898	0.925	0.199	0.170 to 0.230	95.0	70.0 to 130	2.96	20.0
BD09414	Magnesium, Dissolved	mg/L	0.00778	0.0462	5.00	34.7	35.2	4.97	4.25 to 5.75	92.0	70.0 to 130	1.43	20.0
BD09413	Magnesium, Total	mg/L	0.00480	0.0462	5.00	35.6	36.4	5.07	4.25 to 5.75	88.0	70.0 to 130	2.22	20.0
BD09414	Manganese, Dissolved	mg/L	0.000204	0.00033	0.100	2.05	2.08	0.104	0.0850 to 0.115	30.0	70.0 to 130	1.45	20.0
BD09413	Manganese, Total	mg/L	0.000115	0.00033	0.100	2.15	2.12	0.105	0.0850 to 0.115	110	70.0 to 130	1.41	20.0
BD09413	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00391	0.00392	0.00398	0.00340 to 0.00460	97.8	70.0 to 130	0.255	20.0
BD09414	Molybdenum, Dissolved	mg/L	0.00256	0.0100	0.2	0.245	0.249	0.202	0.170 to 0.230	98.0	70.0 to 130	1.62	20.0
BD09413	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.245	0.251	0.200	0.170 to 0.230	97.6	70.0 to 130	2.42	20.0
BD09414	Potassium, Dissolved	mg/L	0.0100	0.367	10.0	22.8	23.4	10.0	8.50 to 11.5	89.0	70.0 to 130	2.60	20.0
BD09413	Potassium, Total	mg/L	0.0111	0.367	10.0	24.3	25.3	10.3	8.50 to 11.5	103	70.0 to 130	4.03	20.0
BD09414	Selenium, Dissolved	mg/L	0.0000983	0.00100	0.100	0.105	0.105	0.0994	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09413	Selenium, Total	mg/L	0.0000945	0.00100	0.100	0.102	0.104	0.100	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD09414	Silicon, Dissolved	mg/L	0.000205	0.0440	1.00	10.1	10.2	1.03	0.850 to 1.15	91.0	70.0 to 130	0.985	20.0
BD09413	Silicon, Total	mg/L	-0.000531	0.0440	1.00	10.3	10.3	1.02	0.850 to 1.15	94.0	70.0 to 130	0.00	20.0
BD09414	Sodium, Dissolved	mg/L	0.00326	0.0880	5.00	49.7	52.0	4.93	4.25 to 5.75	90.0	70.0 to 130	4.52	20.0
BD09413	Sodium, Total	mg/L	0.00301	0.0880	5.00	49.8	48.8	4.95	4.25 to 5.75	48.0	70.0 to 130	2.03	20.0
BD09413	Sulfate	mg/L	-0.146	2.0	100	208	218	19.6	18.0 to 22.0	86.0	80.0 to 120	4.69	20.0
BD09414	Thallium, Dissolved	mg/L	-0.0000344	0.000147	0.100	0.107	0.106	0.108	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09413	Thallium, Total	mg/L	-0.0000382	0.000147	0.100	0.108	0.107	0.104	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD09412	Total Organic Carbon	mg/L	0.0680	1.00	10.0	10.1	10.4	9.88		101	80.0 to 120	2.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/16/23 08:28

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-44H

**Laboratory ID Number:** BD09404

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09411	Alkalinity	mg CaCO3/L					241	51.2	45.0 to 55.0			0.414	10.0
BD09413	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.08	0.300	1.91	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD09411	Solids, Dissolved	mg/L	0.0000	25.0			500	50.0	40.0 to 60.0			0.803	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-1

**Location Code:** WMWGREAP  
**Collected:** 5/16/23 08:19  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09405

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/19/23 11:37	5/22/23 13:46		1.015	0.187	mg/L	0.030000	0.1015	
* Calcium, Total	5/19/23 11:37	5/24/23 11:50		101.5	105	mg/L	7.0035	40.6	
* Iron, Total	5/19/23 11:37	5/24/23 11:50		101.5	166	mg/L	0.8120	4.06	
* Lithium, Total	5/19/23 11:37	5/22/23 13:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/19/23 11:37	5/22/23 13:46		1.015	27.6	mg/L	0.021315	0.406	
* Molybdenum, Total	5/19/23 11:37	5/22/23 13:46		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 13:46		1	11.1	mg/L			
* Silicon, Total	5/19/23 11:37	5/22/23 13:46		1.015	5.20	mg/L	0.02030	0.25375	
* Sodium, Total	5/19/23 11:37	5/22/23 13:46		1.015	36.2	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/19/23 08:47	5/19/23 10:52		1.015	0.181	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/19/23 08:47	5/19/23 14:10		101.5	104	mg/L	7.0035	40.6	
* Iron, Dissolved	5/19/23 08:47	5/19/23 14:10		101.5	182	mg/L	0.8120	4.06	
* Lithium, Dissolved	5/19/23 08:47	5/19/23 10:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/19/23 08:47	5/19/23 10:52		1.015	27.0	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/19/23 08:47	5/19/23 10:52		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/19/23 08:47	5/19/23 10:52		1	10.9	mg/L			
* Silicon, Dissolved	5/19/23 08:47	5/19/23 10:52		1.015	5.11	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/19/23 08:47	5/19/23 10:52		1.015	35.2	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/19/23 11:37	5/19/23 19:02		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/19/23 11:37	5/19/23 19:02		1.015	0.0446	mg/L	0.009135	0.05075	J
* Arsenic, Total	5/19/23 11:37	5/19/23 19:02		1.015	0.0120	mg/L	0.000112	0.000203	
* Barium, Total	5/19/23 11:37	5/19/23 19:02		1.015	0.0336	mg/L	0.000508	0.001015	
* Beryllium, Total	5/19/23 11:37	5/19/23 19:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/19/23 11:37	5/19/23 19:02		1.015	0.0000891	mg/L	0.000068	0.000203	J
* Chromium, Total	5/19/23 11:37	5/19/23 19:02		1.015	0.000326	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/19/23 11:37	5/19/23 19:02		1.015	0.236	mg/L	0.000068	0.000203	
* Lead, Total	5/19/23 11:37	5/19/23 19:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/19/23 11:37	5/19/23 20:12		92.365	13.2	mg/L	0.013855	0.092365	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-1

**Location Code:** WMWGREAP  
**Collected:** 5/16/23 08:19  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09405

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/19/23 11:37	5/19/23 19:02		1.015	3.38	mg/L	0.169505	0.5075	
* Selenium, Total	5/19/23 11:37	5/19/23 19:02		1.015	0.000809	mg/L	0.000508	0.001015	J
* Thallium, Total	5/19/23 11:37	5/19/23 19:02		1.015	0.0000981	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/19/23 08:47	5/19/23 11:44		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/19/23 08:47	5/19/23 11:44		1.015	0.0274	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	5/19/23 08:47	5/22/23 09:34		1.015	0.0115	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/19/23 08:47	5/19/23 11:44		1.015	0.0343	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/19/23 08:47	5/19/23 11:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/19/23 08:47	5/19/23 11:44		1.015	0.000115	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	5/19/23 08:47	5/19/23 11:44		1.015	0.000250	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/19/23 08:47	5/19/23 11:44		1.015	0.232	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/19/23 08:47	5/19/23 11:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/19/23 08:47	5/19/23 13:45		92.365	13.4	mg/L	0.013855	0.092365	
* Potassium, Dissolved	5/19/23 08:47	5/19/23 11:44		1.015	3.37	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/19/23 08:47	5/19/23 11:44		1.015	0.000860	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	5/19/23 08:47	5/19/23 11:44		1.015	0.000106	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	5/19/23 18:40	5/19/23 22:50		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	5/19/23 12:43	5/19/23 12:43		1	0.322	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/24/23 10:42	5/24/23 13:43		1	44.0	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/18/23 13:20	5/22/23 10:19		1	1050	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/24/23 10:42	5/24/23 13:43		1	44.0	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/24/23 10:42	5/24/23 13:43		1	Not Detected	mg CaCO3/L		0.5	A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 12:54	5/22/23 12:54		1	2.10	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-1

**Location Code:** WMWGREAP

**Collected:** 5/16/23 08:19

**Customer ID:**

**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09405

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 11:03	5/24/23 11:03		4	40.8	mg/L	2.00	4	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 09:24	5/25/23 09:24		1	0.144	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 14:34	5/18/23 14:34		32	578	mg/L	19.2	64	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/16/23 08:16	5/16/23 08:16			1174.11	uS/cm			FA
pH	5/16/23 08:16	5/16/23 08:16			5.45	SU			FA
Temperature	5/16/23 08:16	5/16/23 08:16			20.33	C			FA
Turbidity	5/16/23 08:16	5/16/23 08:16			4.37	NTU			FA
Sulfide	5/16/23 08:16	5/16/23 08:16			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 5/16/23 08:19  
**Customer ID:**  
**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-1

**Laboratory ID Number:** BD09405

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09414	Aluminum, Dissolved	mg/L	0.000272	0.0198	0.100	0.0961	0.0987	0.102	0.0850 to 0.115	96.1	70.0 to 130	2.67	20.0
BD09413	Aluminum, Total	mg/L	0.000592	0.0198	0.100	0.106	0.110	0.105	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BD09414	Antimony, Dissolved	mg/L	0.000372	0.00100	0.100	0.100	0.102	0.0957	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD09413	Antimony, Total	mg/L	0.000506	0.00100	0.100	0.110	0.113	0.0980	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD09414	Arsenic, Dissolved	mg/L	0.0000295	0.000200	0.100	1.12	1.12	0.102	0.0850 to 0.115	120	70.0 to 130	0.00	20.0
BD09413	Arsenic, Total	mg/L	0.0000479	0.000200	0.100	1.17	1.21	0.103	0.0850 to 0.115	110	70.0 to 130	3.36	20.0
BD09414	Barium, Dissolved	mg/L	0.0000666	0.00100	0.100	0.391	0.392	0.107	0.0850 to 0.115	104	70.0 to 130	0.255	20.0
BD09413	Barium, Total	mg/L	0.0000335	0.00100	0.100	0.393	0.413	0.108	0.0850 to 0.115	102	70.0 to 130	4.96	20.0
BD09414	Beryllium, Dissolved	mg/L	0.0000326	0.000880	0.100	0.0916	0.0943	0.101	0.0850 to 0.115	91.6	70.0 to 130	2.90	20.0
BD09413	Beryllium, Total	mg/L	0.0000362	0.000880	0.100	0.109	0.110	0.0979	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BD09414	Boron, Dissolved	mg/L	-0.00223	0.0650	1.00	3.44	3.45	1.01	0.850 to 1.15	102	70.0 to 130	0.290	20.0
BD09413	Boron, Total	mg/L	-0.000214	0.0650	1.00	3.51	3.53	1.04	0.850 to 1.15	103	70.0 to 130	0.568	20.0
BD09414	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD09413	Cadmium, Total	mg/L	0.0000112	0.000147	0.100	0.105	0.108	0.105	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BD09414	Calcium, Dissolved	mg/L	-0.0003	0.152	5.00	145	149	5.10	4.25 to 5.75	60.0	70.0 to 130	2.72	20.0
BD09413	Calcium, Total	mg/L	0.00227	0.152	5.00	140	140	5.20	4.25 to 5.75	-140	70.0 to 130	0.00	20.0
BD09413	Chloride	mg/L	0.0255	1.00	10.0	19.7	19.7	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0
BD09414	Chromium, Dissolved	mg/L	0.0000152	0.000440	0.100	0.0977	0.0997	0.103	0.0850 to 0.115	97.4	70.0 to 130	2.03	20.0
BD09413	Chromium, Total	mg/L	0.0000119	0.000440	0.100	0.102	0.105	0.103	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD09414	Cobalt, Dissolved	mg/L	-0.0000463	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	98.6	70.0 to 130	1.85	20.0
BD09413	Cobalt, Total	mg/L	-0.0000426	0.000147	0.100	0.111	0.115	0.106	0.0850 to 0.115	103	70.0 to 130	3.54	20.0
BD09413	Fluoride	mg/L	0.0418	0.125	2.50	3.15	3.23	2.60	2.25 to 2.75	105	80.0 to 120	2.51	20.0
BD09414	Iron, Dissolved	mg/L	0.00336	0.0176	0.2	39.6	40.2	0.205	0.170 to 0.230	250	70.0 to 130	1.50	20.0
BD09413	Iron, Total	mg/L	0.00162	0.0176	0.2	39.4	39.1	0.204	0.170 to 0.230	450	70.0 to 130	0.764	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/16/23 08:19

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-1

**Laboratory ID Number:** BD09405

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09414	Lead, Dissolved	mg/L	0.000015	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09413	Lead, Total	mg/L	0.0000146	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09414	Lithium, Dissolved	mg/L	0.000031	0.0154	0.200	0.905	0.907	0.199	0.170 to 0.230	98.5	70.0 to 130	0.221	20.0
BD09413	Lithium, Total	mg/L	0.000312	0.0154	0.200	0.898	0.925	0.199	0.170 to 0.230	95.0	70.0 to 130	2.96	20.0
BD09414	Magnesium, Dissolved	mg/L	0.00778	0.0462	5.00	34.7	35.2	4.97	4.25 to 5.75	92.0	70.0 to 130	1.43	20.0
BD09413	Magnesium, Total	mg/L	0.00480	0.0462	5.00	35.6	36.4	5.07	4.25 to 5.75	88.0	70.0 to 130	2.22	20.0
BD09414	Manganese, Dissolved	mg/L	0.000204	0.00033	0.100	2.05	2.08	0.104	0.0850 to 0.115	30.0	70.0 to 130	1.45	20.0
BD09413	Manganese, Total	mg/L	0.000115	0.00033	0.100	2.15	2.12	0.105	0.0850 to 0.115	110	70.0 to 130	1.41	20.0
BD09413	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00391	0.00392	0.00398	0.00340 to 0.00460	97.8	70.0 to 130	0.255	20.0
BD09414	Molybdenum, Dissolved	mg/L	0.00256	0.0100	0.2	0.245	0.249	0.202	0.170 to 0.230	98.0	70.0 to 130	1.62	20.0
BD09413	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.245	0.251	0.200	0.170 to 0.230	97.6	70.0 to 130	2.42	20.0
BD09414	Potassium, Dissolved	mg/L	0.0100	0.367	10.0	22.8	23.4	10.0	8.50 to 11.5	89.0	70.0 to 130	2.60	20.0
BD09413	Potassium, Total	mg/L	0.0111	0.367	10.0	24.3	25.3	10.3	8.50 to 11.5	103	70.0 to 130	4.03	20.0
BD09414	Selenium, Dissolved	mg/L	0.0000983	0.00100	0.100	0.105	0.105	0.0994	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09413	Selenium, Total	mg/L	0.0000945	0.00100	0.100	0.102	0.104	0.100	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD09414	Silicon, Dissolved	mg/L	0.000205	0.0440	1.00	10.1	10.2	1.03	0.850 to 1.15	91.0	70.0 to 130	0.985	20.0
BD09413	Silicon, Total	mg/L	-0.000531	0.0440	1.00	10.3	10.3	1.02	0.850 to 1.15	94.0	70.0 to 130	0.00	20.0
BD09414	Sodium, Dissolved	mg/L	0.00326	0.0880	5.00	49.7	52.0	4.93	4.25 to 5.75	90.0	70.0 to 130	4.52	20.0
BD09413	Sodium, Total	mg/L	0.00301	0.0880	5.00	49.8	48.8	4.95	4.25 to 5.75	48.0	70.0 to 130	2.03	20.0
BD09413	Sulfate	mg/L	-0.146	2.0	100	208	218	19.6	18.0 to 22.0	86.0	80.0 to 120	4.69	20.0
BD09414	Thallium, Dissolved	mg/L	-0.0000344	0.000147	0.100	0.107	0.106	0.108	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09413	Thallium, Total	mg/L	-0.0000382	0.000147	0.100	0.108	0.107	0.104	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD09412	Total Organic Carbon	mg/L	0.0680	1.00	10.0	10.1	10.4	9.88		101	80.0 to 120	2.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/16/23 08:19

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-1

**Laboratory ID Number:** BD09405

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09411	Alkalinity	mg CaCO3/L					241	51.2	45.0 to 55.0			0.414	10.0
BD09413	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.08	0.300	1.91	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD09411	Solids, Dissolved	mg/L	0.0000	25.0			500	50.0	40.0 to 60.0			0.803	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-11

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 13:35  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09406

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/19/23 11:37	5/22/23 13:49		1.015	0.691	mg/L	0.030000	0.1015	
* Calcium, Total	5/19/23 11:37	5/24/23 11:53		10.15	57.8	mg/L	0.70035	4.06	
* Iron, Total	5/19/23 11:37	5/22/23 13:49		1.015	1.73	mg/L	0.008120	0.0406	
* Lithium, Total	5/19/23 11:37	5/22/23 13:49		1.015	0.124	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/19/23 11:37	5/22/23 13:49		1.015	15.9	mg/L	0.021315	0.406	
* Molybdenum, Total	5/19/23 11:37	5/22/23 13:49		1.015	0.0170	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 13:49		1	5.22	mg/L			
* Silicon, Total	5/19/23 11:37	5/22/23 13:49		1.015	2.44	mg/L	0.02030	0.25375	
* Sodium, Total	5/19/23 11:37	5/22/23 13:49		1.015	33.6	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/19/23 08:47	5/19/23 10:55		1.015	0.673	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/19/23 08:47	5/19/23 14:13		10.15	65.9	mg/L	0.70035	4.06	
* Iron, Dissolved	5/19/23 08:47	5/19/23 10:55		1.015	1.76	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/19/23 08:47	5/19/23 10:55		1.015	0.122	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/19/23 08:47	5/19/23 10:55		1.015	15.6	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/19/23 08:47	5/19/23 10:55		1.015	0.0170	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	5/19/23 08:47	5/19/23 10:55		1	5.16	mg/L			
* Silicon, Dissolved	5/19/23 08:47	5/19/23 10:55		1.015	2.41	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/19/23 08:47	5/19/23 10:55		1.015	33.4	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/19/23 11:37	5/19/23 19:05		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	5/19/23 11:37	5/19/23 19:05		1.015	0.00314	mg/L	0.000112	0.000203	
* Aluminum, Total	5/19/23 11:37	5/19/23 19:05		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	5/19/23 11:37	5/19/23 19:05		1.015	0.0705	mg/L	0.000508	0.001015	
* Beryllium, Total	5/19/23 11:37	5/19/23 19:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/19/23 11:37	5/19/23 19:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/19/23 11:37	5/19/23 19:05		1.015	0.000293	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/19/23 11:37	5/19/23 19:05		1.015	0.0296	mg/L	0.000068	0.000203	
* Lead, Total	5/19/23 11:37	5/19/23 19:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/19/23 11:37	5/19/23 20:16		10.15	7.54	mg/L	0.001522	0.01015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-11

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 13:35  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09406

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/19/23 11:37	5/19/23 19:05		1.015	6.90	mg/L	0.169505	0.5075	
* Selenium, Total	5/19/23 11:37	5/19/23 19:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/19/23 11:37	5/19/23 19:05		1.015	0.0000734	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/19/23 08:47	5/19/23 11:48		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/19/23 08:47	5/19/23 11:48		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/19/23 08:47	5/22/23 09:38		1.015	0.00317	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/19/23 08:47	5/19/23 11:48		1.015	0.0701	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/19/23 08:47	5/19/23 11:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/19/23 08:47	5/19/23 11:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/19/23 08:47	5/19/23 11:48		1.015	0.000203	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/19/23 08:47	5/19/23 11:48		1.015	0.0293	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/19/23 08:47	5/19/23 11:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/19/23 08:47	5/19/23 13:48		10.15	7.55	mg/L	0.001522	0.01015	
* Potassium, Dissolved	5/19/23 08:47	5/19/23 11:48		1.015	6.71	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/19/23 08:47	5/19/23 11:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/19/23 08:47	5/19/23 11:48		1.015	0.0000861	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	5/19/23 18:40	5/19/23 22:54		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	5/19/23 12:44	5/19/23 12:44		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/30/23 11:06	5/30/23 12:19		1	116	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/18/23 13:20	5/22/23 10:19		1	354	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/30/23 11:06	5/30/23 12:19		1	116	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/30/23 11:06	5/30/23 12:19		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 13:09	5/22/23 13:09		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-11

**Location Code:** WMWGREAP

**Collected:** 5/17/23 13:35

**Customer ID:**

**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09406

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 10:51	5/24/23 10:51		1	18.8	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 09:25	5/25/23 09:25		1	0.157	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 14:36	5/18/23 14:36		8	150	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/17/23 13:32	5/17/23 13:32			524.43	uS/cm			FA
pH	5/17/23 13:32	5/17/23 13:32			6.21	SU			FA
Temperature	5/17/23 13:32	5/17/23 13:32			21.16	C			FA
Turbidity	5/17/23 13:32	5/17/23 13:32			2.11	NTU			FA
Sulfide	5/17/23 13:32	5/17/23 13:32			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 13:35

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-11

**Laboratory ID Number:** BD09406

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD09414	Aluminum, Dissolved	mg/L	0.000272	0.0198	0.100	0.0961	0.0987	0.102	0.0850 to 0.115	96.1	70.0 to 130	2.67	20.0
BD09413	Aluminum, Total	mg/L	0.000592	0.0198	0.100	0.106	0.110	0.105	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BD09414	Antimony, Dissolved	mg/L	0.000372	0.00100	0.100	0.100	0.102	0.0957	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD09413	Antimony, Total	mg/L	0.000506	0.00100	0.100	0.110	0.113	0.0980	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD09414	Arsenic, Dissolved	mg/L	0.0000295	0.000200	0.100	1.12	1.12	0.102	0.0850 to 0.115	120	70.0 to 130	0.00	20.0
BD09413	Arsenic, Total	mg/L	0.0000479	0.000200	0.100	1.17	1.21	0.103	0.0850 to 0.115	110	70.0 to 130	3.36	20.0
BD09414	Barium, Dissolved	mg/L	0.0000666	0.00100	0.100	0.391	0.392	0.107	0.0850 to 0.115	104	70.0 to 130	0.255	20.0
BD09413	Barium, Total	mg/L	0.0000335	0.00100	0.100	0.393	0.413	0.108	0.0850 to 0.115	102	70.0 to 130	4.96	20.0
BD09414	Beryllium, Dissolved	mg/L	0.0000326	0.000880	0.100	0.0916	0.0943	0.101	0.0850 to 0.115	91.6	70.0 to 130	2.90	20.0
BD09413	Beryllium, Total	mg/L	0.0000362	0.000880	0.100	0.109	0.110	0.0979	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BD09414	Boron, Dissolved	mg/L	-0.00223	0.0650	1.00	3.44	3.45	1.01	0.850 to 1.15	102	70.0 to 130	0.290	20.0
BD09413	Boron, Total	mg/L	-0.000214	0.0650	1.00	3.51	3.53	1.04	0.850 to 1.15	103	70.0 to 130	0.568	20.0
BD09414	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD09413	Cadmium, Total	mg/L	0.0000112	0.000147	0.100	0.105	0.108	0.105	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BD09414	Calcium, Dissolved	mg/L	-0.0003	0.152	5.00	145	149	5.10	4.25 to 5.75	60.0	70.0 to 130	2.72	20.0
BD09413	Calcium, Total	mg/L	0.00227	0.152	5.00	140	140	5.20	4.25 to 5.75	-140	70.0 to 130	0.00	20.0
BD09413	Chloride	mg/L	0.0255	1.00	10.0	19.7	19.7	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0
BD09414	Chromium, Dissolved	mg/L	0.0000152	0.000440	0.100	0.0977	0.0997	0.103	0.0850 to 0.115	97.4	70.0 to 130	2.03	20.0
BD09413	Chromium, Total	mg/L	0.0000119	0.000440	0.100	0.102	0.105	0.103	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD09414	Cobalt, Dissolved	mg/L	-0.0000463	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	98.6	70.0 to 130	1.85	20.0
BD09413	Cobalt, Total	mg/L	-0.0000426	0.000147	0.100	0.111	0.115	0.106	0.0850 to 0.115	103	70.0 to 130	3.54	20.0
BD09413	Fluoride	mg/L	0.0418	0.125	2.50	3.15	3.23	2.60	2.25 to 2.75	105	80.0 to 120	2.51	20.0
BD09414	Iron, Dissolved	mg/L	0.00336	0.0176	0.2	39.6	40.2	0.205	0.170 to 0.230	250	70.0 to 130	1.50	20.0
BD09413	Iron, Total	mg/L	0.00162	0.0176	0.2	39.4	39.1	0.204	0.170 to 0.230	450	70.0 to 130	0.764	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 13:35

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-11

**Laboratory ID Number:** BD09406

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09414	Lead, Dissolved	mg/L	0.000015	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09413	Lead, Total	mg/L	0.0000146	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09414	Lithium, Dissolved	mg/L	0.000031	0.0154	0.200	0.905	0.907	0.199	0.170 to 0.230	98.5	70.0 to 130	0.221	20.0
BD09413	Lithium, Total	mg/L	0.000312	0.0154	0.200	0.898	0.925	0.199	0.170 to 0.230	95.0	70.0 to 130	2.96	20.0
BD09414	Magnesium, Dissolved	mg/L	0.00778	0.0462	5.00	34.7	35.2	4.97	4.25 to 5.75	92.0	70.0 to 130	1.43	20.0
BD09413	Magnesium, Total	mg/L	0.00480	0.0462	5.00	35.6	36.4	5.07	4.25 to 5.75	88.0	70.0 to 130	2.22	20.0
BD09414	Manganese, Dissolved	mg/L	0.000204	0.00033	0.100	2.05	2.08	0.104	0.0850 to 0.115	30.0	70.0 to 130	1.45	20.0
BD09413	Manganese, Total	mg/L	0.000115	0.00033	0.100	2.15	2.12	0.105	0.0850 to 0.115	110	70.0 to 130	1.41	20.0
BD09413	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00391	0.00392	0.00398	0.00340 to 0.00460	97.8	70.0 to 130	0.255	20.0
BD09414	Molybdenum, Dissolved	mg/L	0.00256	0.0100	0.2	0.245	0.249	0.202	0.170 to 0.230	98.0	70.0 to 130	1.62	20.0
BD09413	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.245	0.251	0.200	0.170 to 0.230	97.6	70.0 to 130	2.42	20.0
BD09414	Potassium, Dissolved	mg/L	0.0100	0.367	10.0	22.8	23.4	10.0	8.50 to 11.5	89.0	70.0 to 130	2.60	20.0
BD09413	Potassium, Total	mg/L	0.0111	0.367	10.0	24.3	25.3	10.3	8.50 to 11.5	103	70.0 to 130	4.03	20.0
BD09414	Selenium, Dissolved	mg/L	0.0000983	0.00100	0.100	0.105	0.105	0.0994	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09413	Selenium, Total	mg/L	0.0000945	0.00100	0.100	0.102	0.104	0.100	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD09414	Silicon, Dissolved	mg/L	0.000205	0.0440	1.00	10.1	10.2	1.03	0.850 to 1.15	91.0	70.0 to 130	0.985	20.0
BD09413	Silicon, Total	mg/L	-0.000531	0.0440	1.00	10.3	10.3	1.02	0.850 to 1.15	94.0	70.0 to 130	0.00	20.0
BD09414	Sodium, Dissolved	mg/L	0.00326	0.0880	5.00	49.7	52.0	4.93	4.25 to 5.75	90.0	70.0 to 130	4.52	20.0
BD09413	Sodium, Total	mg/L	0.00301	0.0880	5.00	49.8	48.8	4.95	4.25 to 5.75	48.0	70.0 to 130	2.03	20.0
BD09413	Sulfate	mg/L	-0.146	2.0	100	208	218	19.6	18.0 to 22.0	86.0	80.0 to 120	4.69	20.0
BD09414	Thallium, Dissolved	mg/L	-0.0000344	0.000147	0.100	0.107	0.106	0.108	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09413	Thallium, Total	mg/L	-0.0000382	0.000147	0.100	0.108	0.107	0.104	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD09412	Total Organic Carbon	mg/L	0.0680	1.00	10.0	10.1	10.4	9.88		101	80.0 to 120	2.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 13:35

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-11

**Laboratory ID Number:** BD09406

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09415	Alkalinity	mg CaCO3/L					236	51.7	45.0 to 55.0			1.28	10.0
BD09413	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.08	0.300	1.91	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD09411	Solids, Dissolved	mg/L	0.0000	25.0			500	50.0	40.0 to 60.0			0.803	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-23

**Location Code:** WMWGREAP  
**Collected:** 5/16/23 08:38  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09407

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	5/19/23 11:37	5/22/23 13:52		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/19/23 11:37	5/22/23 13:52		1.015	25.4	mg/L	0.070035	0.406		
* Iron, Total	5/19/23 11:37	5/22/23 13:52		1.015	0.0212	mg/L	0.008120	0.0406	J	
* Lithium, Total	5/19/23 11:37	5/22/23 13:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/19/23 11:37	5/22/23 13:52		1.015	2.02	mg/L	0.021315	0.406		
* Molybdenum, Total	5/19/23 11:37	5/22/23 13:52		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 13:52		1	8.05	mg/L				
* Silicon, Total	5/19/23 11:37	5/22/23 13:52		1.015	3.76	mg/L	0.02030	0.25375		
* Sodium, Total	5/19/23 11:37	5/22/23 13:52		1.015	2.23	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	5/19/23 08:47	5/19/23 10:58		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	5/19/23 08:47	5/19/23 10:58		1.015	25.9	mg/L	0.070035	0.406		
* Iron, Dissolved	5/19/23 08:47	5/19/23 10:58		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	5/19/23 08:47	5/19/23 10:58		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/19/23 08:47	5/19/23 10:58		1.015	2.00	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	5/19/23 08:47	5/19/23 10:58		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	5/19/23 08:47	5/19/23 10:58		1	7.98	mg/L				
* Silicon, Dissolved	5/19/23 08:47	5/19/23 10:58		1.015	3.73	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/19/23 08:47	5/19/23 10:58		1.015	2.29	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	5/19/23 11:37	5/19/23 19:09		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	5/19/23 11:37	5/19/23 19:09		1.015	0.0241	mg/L	0.009135	0.05075	J	
* Arsenic, Total	5/19/23 11:37	5/19/23 19:09		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	5/19/23 11:37	5/19/23 19:09		1.015	0.0322	mg/L	0.000508	0.001015		
* Beryllium, Total	5/19/23 11:37	5/19/23 19:09		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/19/23 11:37	5/19/23 19:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	5/19/23 11:37	5/19/23 19:09		1.015	0.000304	mg/L	0.000203	0.001015	J	
* Cobalt, Total	5/19/23 11:37	5/19/23 19:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	5/19/23 11:37	5/19/23 19:09		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	5/19/23 11:37	5/19/23 19:09		1.015	0.000856	mg/L	0.000152	0.001015	J	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-23

**Location Code:** WMWGREAP

**Collected:** 5/16/23 08:38

**Customer ID:**

**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09407

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/19/23 11:37	5/19/23 19:09		1.015	0.800	mg/L	0.169505	0.5075	
* Selenium, Total	5/19/23 11:37	5/19/23 19:09		1.015	0.00102	mg/L	0.000508	0.001015	
* Thallium, Total	5/19/23 11:37	5/19/23 19:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/19/23 08:47	5/19/23 11:51		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/19/23 08:47	5/19/23 11:51		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/19/23 08:47	5/22/23 09:42		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	5/19/23 08:47	5/19/23 11:51		1.015	0.0334	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/19/23 08:47	5/19/23 11:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/19/23 08:47	5/19/23 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/19/23 08:47	5/19/23 11:51		1.015	0.000225	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/19/23 08:47	5/19/23 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/19/23 08:47	5/19/23 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/19/23 08:47	5/19/23 11:51		1.015	0.000870	mg/L	0.000152	0.001015	J
* Potassium, Dissolved	5/19/23 08:47	5/19/23 11:51		1.015	0.780	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/19/23 08:47	5/19/23 11:51		1.015	0.000956	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	5/19/23 08:47	5/19/23 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	5/19/23 18:40	5/19/23 22:58		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	5/19/23 12:46	5/19/23 12:46		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/24/23 10:42	5/24/23 13:43		1	64.7	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/18/23 13:20	5/22/23 10:19		1	86.0	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/24/23 10:42	5/24/23 13:43		1	64.7	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/24/23 10:42	5/24/23 13:43		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 13:23	5/22/23 13:23		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-23

**Location Code:** WMWGREAP

**Collected:** 5/16/23 08:38

**Customer ID:**

**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09407

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 10:52	5/24/23 10:52		1	1.08	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 09:26	5/25/23 09:26		1	0.0935	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 14:22	5/18/23 14:22		1	9.41	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/16/23 08:35	5/16/23 08:35			152.70	uS/cm			FA
pH	5/16/23 08:35	5/16/23 08:35			6.09	SU			FA
Temperature	5/16/23 08:35	5/16/23 08:35			18.41	C			FA
Turbidity	5/16/23 08:35	5/16/23 08:35			1.89	NTU			FA
Sulfide	5/16/23 08:35	5/16/23 08:35			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/16/23 08:38

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-23

**Laboratory ID Number:** BD09407

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD09414	Aluminum, Dissolved	mg/L	0.000272	0.0198	0.100	0.0961	0.0987	0.102	0.0850 to 0.115	96.1	70.0 to 130	2.67	20.0
BD09413	Aluminum, Total	mg/L	0.000592	0.0198	0.100	0.106	0.110	0.105	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BD09414	Antimony, Dissolved	mg/L	0.000372	0.00100	0.100	0.100	0.102	0.0957	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD09413	Antimony, Total	mg/L	0.000506	0.00100	0.100	0.110	0.113	0.0980	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD09414	Arsenic, Dissolved	mg/L	0.0000295	0.000200	0.100	1.12	1.12	0.102	0.0850 to 0.115	120	70.0 to 130	0.00	20.0
BD09413	Arsenic, Total	mg/L	0.0000479	0.000200	0.100	1.17	1.21	0.103	0.0850 to 0.115	110	70.0 to 130	3.36	20.0
BD09414	Barium, Dissolved	mg/L	0.0000666	0.00100	0.100	0.391	0.392	0.107	0.0850 to 0.115	104	70.0 to 130	0.255	20.0
BD09413	Barium, Total	mg/L	0.0000335	0.00100	0.100	0.393	0.413	0.108	0.0850 to 0.115	102	70.0 to 130	4.96	20.0
BD09414	Beryllium, Dissolved	mg/L	0.0000326	0.000880	0.100	0.0916	0.0943	0.101	0.0850 to 0.115	91.6	70.0 to 130	2.90	20.0
BD09413	Beryllium, Total	mg/L	0.0000362	0.000880	0.100	0.109	0.110	0.0979	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BD09414	Boron, Dissolved	mg/L	-0.00223	0.0650	1.00	3.44	3.45	1.01	0.850 to 1.15	102	70.0 to 130	0.290	20.0
BD09413	Boron, Total	mg/L	-0.000214	0.0650	1.00	3.51	3.53	1.04	0.850 to 1.15	103	70.0 to 130	0.568	20.0
BD09414	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD09413	Cadmium, Total	mg/L	0.0000112	0.000147	0.100	0.105	0.108	0.105	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BD09414	Calcium, Dissolved	mg/L	-0.0003	0.152	5.00	145	149	5.10	4.25 to 5.75	60.0	70.0 to 130	2.72	20.0
BD09413	Calcium, Total	mg/L	0.00227	0.152	5.00	140	140	5.20	4.25 to 5.75	-140	70.0 to 130	0.00	20.0
BD09413	Chloride	mg/L	0.0255	1.00	10.0	19.7	19.7	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0
BD09414	Chromium, Dissolved	mg/L	0.0000152	0.000440	0.100	0.0977	0.0997	0.103	0.0850 to 0.115	97.4	70.0 to 130	2.03	20.0
BD09413	Chromium, Total	mg/L	0.0000119	0.000440	0.100	0.102	0.105	0.103	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD09414	Cobalt, Dissolved	mg/L	-0.0000463	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	98.6	70.0 to 130	1.85	20.0
BD09413	Cobalt, Total	mg/L	-0.0000426	0.000147	0.100	0.111	0.115	0.106	0.0850 to 0.115	103	70.0 to 130	3.54	20.0
BD09413	Fluoride	mg/L	0.0418	0.125	2.50	3.15	3.23	2.60	2.25 to 2.75	105	80.0 to 120	2.51	20.0
BD09414	Iron, Dissolved	mg/L	0.00336	0.0176	0.2	39.6	40.2	0.205	0.170 to 0.230	250	70.0 to 130	1.50	20.0
BD09413	Iron, Total	mg/L	0.00162	0.0176	0.2	39.4	39.1	0.204	0.170 to 0.230	450	70.0 to 130	0.764	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/16/23 08:38

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-23

**Laboratory ID Number:** BD09407

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09414	Lead, Dissolved	mg/L	0.000015	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09413	Lead, Total	mg/L	0.0000146	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09414	Lithium, Dissolved	mg/L	0.000031	0.0154	0.200	0.905	0.907	0.199	0.170 to 0.230	98.5	70.0 to 130	0.221	20.0
BD09413	Lithium, Total	mg/L	0.000312	0.0154	0.200	0.898	0.925	0.199	0.170 to 0.230	95.0	70.0 to 130	2.96	20.0
BD09414	Magnesium, Dissolved	mg/L	0.00778	0.0462	5.00	34.7	35.2	4.97	4.25 to 5.75	92.0	70.0 to 130	1.43	20.0
BD09413	Magnesium, Total	mg/L	0.00480	0.0462	5.00	35.6	36.4	5.07	4.25 to 5.75	88.0	70.0 to 130	2.22	20.0
BD09414	Manganese, Dissolved	mg/L	0.000204	0.00033	0.100	2.05	2.08	0.104	0.0850 to 0.115	30.0	70.0 to 130	1.45	20.0
BD09413	Manganese, Total	mg/L	0.000115	0.00033	0.100	2.15	2.12	0.105	0.0850 to 0.115	110	70.0 to 130	1.41	20.0
BD09413	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00391	0.00392	0.00398	0.00340 to 0.00460	97.8	70.0 to 130	0.255	20.0
BD09414	Molybdenum, Dissolved	mg/L	0.00256	0.0100	0.2	0.245	0.249	0.202	0.170 to 0.230	98.0	70.0 to 130	1.62	20.0
BD09413	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.245	0.251	0.200	0.170 to 0.230	97.6	70.0 to 130	2.42	20.0
BD09414	Potassium, Dissolved	mg/L	0.0100	0.367	10.0	22.8	23.4	10.0	8.50 to 11.5	89.0	70.0 to 130	2.60	20.0
BD09413	Potassium, Total	mg/L	0.0111	0.367	10.0	24.3	25.3	10.3	8.50 to 11.5	103	70.0 to 130	4.03	20.0
BD09414	Selenium, Dissolved	mg/L	0.0000983	0.00100	0.100	0.105	0.105	0.0994	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09413	Selenium, Total	mg/L	0.0000945	0.00100	0.100	0.102	0.104	0.100	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD09414	Silicon, Dissolved	mg/L	0.000205	0.0440	1.00	10.1	10.2	1.03	0.850 to 1.15	91.0	70.0 to 130	0.985	20.0
BD09413	Silicon, Total	mg/L	-0.000531	0.0440	1.00	10.3	10.3	1.02	0.850 to 1.15	94.0	70.0 to 130	0.00	20.0
BD09414	Sodium, Dissolved	mg/L	0.00326	0.0880	5.00	49.7	52.0	4.93	4.25 to 5.75	90.0	70.0 to 130	4.52	20.0
BD09413	Sodium, Total	mg/L	0.00301	0.0880	5.00	49.8	48.8	4.95	4.25 to 5.75	48.0	70.0 to 130	2.03	20.0
BD09413	Sulfate	mg/L	-0.146	2.0	100	208	218	19.6	18.0 to 22.0	86.0	80.0 to 120	4.69	20.0
BD09414	Thallium, Dissolved	mg/L	-0.0000344	0.000147	0.100	0.107	0.106	0.108	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09413	Thallium, Total	mg/L	-0.0000382	0.000147	0.100	0.108	0.107	0.104	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD09412	Total Organic Carbon	mg/L	0.0680	1.00	10.0	10.1	10.4	9.88		101	80.0 to 120	2.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/16/23 08:38

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-23

**Laboratory ID Number:** BD09407

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09411	Alkalinity	mg CaCO3/L					241	51.2	45.0 to 55.0			0.414	10.0
BD09413	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.08	0.300	1.91	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD09411	Solids, Dissolved	mg/L	0.0000	25.0			500	50.0	40.0 to 60.0			0.803	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-24

**Location Code:** WMWGREAP  
**Collected:** 5/16/23 11:05  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09408

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/19/23 11:37	5/22/23 13:55		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/19/23 11:37	5/24/23 11:56		10.15	47.3	mg/L	0.70035	4.06	
* Iron, Total	5/19/23 11:37	5/22/23 13:55		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	5/19/23 11:37	5/22/23 13:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/19/23 11:37	5/22/23 13:55		1.015	4.37	mg/L	0.021315	0.406	
* Molybdenum, Total	5/19/23 11:37	5/22/23 13:55		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 13:55		1	11.9	mg/L			
* Silicon, Total	5/19/23 11:37	5/22/23 13:55		1.015	5.58	mg/L	0.02030	0.25375	
* Sodium, Total	5/19/23 11:37	5/22/23 13:55		1.015	2.97	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>						
* Boron, Dissolved	5/19/23 08:47	5/19/23 11:01		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	5/19/23 08:47	5/19/23 14:16		10.15	49.6	mg/L	0.70035	4.06	
* Iron, Dissolved	5/19/23 08:47	5/19/23 11:01		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/19/23 08:47	5/19/23 11:01		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/19/23 08:47	5/19/23 11:01		1.015	4.41	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/19/23 08:47	5/19/23 11:01		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/19/23 08:47	5/19/23 11:01		1	11.9	mg/L			
* Silicon, Dissolved	5/19/23 08:47	5/19/23 11:01		1.015	5.56	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/19/23 08:47	5/19/23 11:01		1.015	2.95	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/19/23 11:37	5/19/23 19:12		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	5/19/23 11:37	5/19/23 19:12		1.015	0.000269	mg/L	0.000112	0.000203	
* Aluminum, Total	5/19/23 11:37	5/19/23 19:12		1.015	0.0325	mg/L	0.009135	0.05075	J
* Barium, Total	5/19/23 11:37	5/19/23 19:12		1.015	0.0673	mg/L	0.000508	0.001015	
* Beryllium, Total	5/19/23 11:37	5/19/23 19:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/19/23 11:37	5/19/23 19:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/19/23 11:37	5/19/23 19:12		1.015	0.000248	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/19/23 11:37	5/19/23 19:12		1.015	0.000596	mg/L	0.000068	0.000203	
* Lead, Total	5/19/23 11:37	5/19/23 19:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/19/23 11:37	5/19/23 19:12		1.015	0.153	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-24

**Location Code:** WMWGREAP  
**Collected:** 5/16/23 11:05  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09408

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/19/23 11:37	5/19/23 19:12		1.015	1.41	mg/L	0.169505	0.5075	
* Selenium, Total	5/19/23 11:37	5/19/23 19:12		1.015	0.000692	mg/L	0.000508	0.001015	J
* Thallium, Total	5/19/23 11:37	5/19/23 19:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/19/23 08:47	5/19/23 11:55		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/19/23 08:47	5/19/23 11:55		1.015	0.0251	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	5/19/23 08:47	5/22/23 09:45		1.015	0.000238	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/19/23 08:47	5/19/23 11:55		1.015	0.0659	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/19/23 08:47	5/19/23 11:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/19/23 08:47	5/19/23 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/19/23 08:47	5/19/23 11:55		1.015	0.000247	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/19/23 08:47	5/19/23 11:55		1.015	0.000481	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/19/23 08:47	5/19/23 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/19/23 08:47	5/19/23 11:55		1.015	0.139	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/19/23 08:47	5/19/23 11:55		1.015	1.45	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/19/23 08:47	5/19/23 11:55		1.015	0.000770	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	5/19/23 08:47	5/19/23 11:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	5/19/23 18:40	5/19/23 23:02		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	5/19/23 12:48	5/19/23 12:48		1	0.497	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/24/23 10:42	5/24/23 13:43		1	16.8	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/18/23 13:20	5/22/23 10:19		1	182	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/24/23 10:42	5/24/23 13:43		1	16.8	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/24/23 10:42	5/24/23 13:43		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 13:39	5/22/23 13:39		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-24

**Location Code:** WMWGREAP

**Collected:** 5/16/23 11:05

**Customer ID:**

**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09408

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 10:53	5/24/23 10:53		1	3.74	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 09:28	5/25/23 09:28		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 14:37	5/18/23 14:37		4	103	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/16/23 11:02	5/16/23 11:02			287.17	uS/cm			FA
pH	5/16/23 11:02	5/16/23 11:02			4.80	SU			FA
Temperature	5/16/23 11:02	5/16/23 11:02			19.32	C			FA
Turbidity	5/16/23 11:02	5/16/23 11:02			1.05	NTU			FA
Sulfide	5/16/23 11:02	5/16/23 11:02			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/16/23 11:05

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-24

**Laboratory ID Number:** BD09408

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09414	Aluminum, Dissolved	mg/L	0.000272	0.0198	0.100	0.0961	0.0987	0.102	0.0850 to 0.115	96.1	70.0 to 130	2.67	20.0
BD09413	Aluminum, Total	mg/L	0.000592	0.0198	0.100	0.106	0.110	0.105	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BD09414	Antimony, Dissolved	mg/L	0.000372	0.00100	0.100	0.100	0.102	0.0957	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD09413	Antimony, Total	mg/L	0.000506	0.00100	0.100	0.110	0.113	0.0980	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD09414	Arsenic, Dissolved	mg/L	0.0000295	0.000200	0.100	1.12	1.12	0.102	0.0850 to 0.115	120	70.0 to 130	0.00	20.0
BD09413	Arsenic, Total	mg/L	0.0000479	0.000200	0.100	1.17	1.21	0.103	0.0850 to 0.115	110	70.0 to 130	3.36	20.0
BD09414	Barium, Dissolved	mg/L	0.0000666	0.00100	0.100	0.391	0.392	0.107	0.0850 to 0.115	104	70.0 to 130	0.255	20.0
BD09413	Barium, Total	mg/L	0.0000335	0.00100	0.100	0.393	0.413	0.108	0.0850 to 0.115	102	70.0 to 130	4.96	20.0
BD09414	Beryllium, Dissolved	mg/L	0.0000326	0.000880	0.100	0.0916	0.0943	0.101	0.0850 to 0.115	91.6	70.0 to 130	2.90	20.0
BD09413	Beryllium, Total	mg/L	0.0000362	0.000880	0.100	0.109	0.110	0.0979	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BD09414	Boron, Dissolved	mg/L	-0.00223	0.0650	1.00	3.44	3.45	1.01	0.850 to 1.15	102	70.0 to 130	0.290	20.0
BD09413	Boron, Total	mg/L	-0.000214	0.0650	1.00	3.51	3.53	1.04	0.850 to 1.15	103	70.0 to 130	0.568	20.0
BD09414	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD09413	Cadmium, Total	mg/L	0.0000112	0.000147	0.100	0.105	0.108	0.105	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BD09414	Calcium, Dissolved	mg/L	-0.0003	0.152	5.00	145	149	5.10	4.25 to 5.75	60.0	70.0 to 130	2.72	20.0
BD09413	Calcium, Total	mg/L	0.00227	0.152	5.00	140	140	5.20	4.25 to 5.75	-140	70.0 to 130	0.00	20.0
BD09413	Chloride	mg/L	0.0255	1.00	10.0	19.7	19.7	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0
BD09414	Chromium, Dissolved	mg/L	0.0000152	0.000440	0.100	0.0977	0.0997	0.103	0.0850 to 0.115	97.4	70.0 to 130	2.03	20.0
BD09413	Chromium, Total	mg/L	0.0000119	0.000440	0.100	0.102	0.105	0.103	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD09414	Cobalt, Dissolved	mg/L	-0.0000463	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	98.6	70.0 to 130	1.85	20.0
BD09413	Cobalt, Total	mg/L	-0.0000426	0.000147	0.100	0.111	0.115	0.106	0.0850 to 0.115	103	70.0 to 130	3.54	20.0
BD09413	Fluoride	mg/L	0.0418	0.125	2.50	3.15	3.23	2.60	2.25 to 2.75	105	80.0 to 120	2.51	20.0
BD09414	Iron, Dissolved	mg/L	0.00336	0.0176	0.2	39.6	40.2	0.205	0.170 to 0.230	250	70.0 to 130	1.50	20.0
BD09413	Iron, Total	mg/L	0.00162	0.0176	0.2	39.4	39.1	0.204	0.170 to 0.230	450	70.0 to 130	0.764	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/16/23 11:05

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-24

**Laboratory ID Number:** BD09408

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09414	Lead, Dissolved	mg/L	0.000015	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09413	Lead, Total	mg/L	0.0000146	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09414	Lithium, Dissolved	mg/L	0.000031	0.0154	0.200	0.905	0.907	0.199	0.170 to 0.230	98.5	70.0 to 130	0.221	20.0
BD09413	Lithium, Total	mg/L	0.000312	0.0154	0.200	0.898	0.925	0.199	0.170 to 0.230	95.0	70.0 to 130	2.96	20.0
BD09414	Magnesium, Dissolved	mg/L	0.00778	0.0462	5.00	34.7	35.2	4.97	4.25 to 5.75	92.0	70.0 to 130	1.43	20.0
BD09413	Magnesium, Total	mg/L	0.00480	0.0462	5.00	35.6	36.4	5.07	4.25 to 5.75	88.0	70.0 to 130	2.22	20.0
BD09414	Manganese, Dissolved	mg/L	0.000204	0.00033	0.100	2.05	2.08	0.104	0.0850 to 0.115	30.0	70.0 to 130	1.45	20.0
BD09413	Manganese, Total	mg/L	0.000115	0.00033	0.100	2.15	2.12	0.105	0.0850 to 0.115	110	70.0 to 130	1.41	20.0
BD09413	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00391	0.00392	0.00398	0.00340 to 0.00460	97.8	70.0 to 130	0.255	20.0
BD09414	Molybdenum, Dissolved	mg/L	0.00256	0.0100	0.2	0.245	0.249	0.202	0.170 to 0.230	98.0	70.0 to 130	1.62	20.0
BD09413	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.245	0.251	0.200	0.170 to 0.230	97.6	70.0 to 130	2.42	20.0
BD09414	Potassium, Dissolved	mg/L	0.0100	0.367	10.0	22.8	23.4	10.0	8.50 to 11.5	89.0	70.0 to 130	2.60	20.0
BD09413	Potassium, Total	mg/L	0.0111	0.367	10.0	24.3	25.3	10.3	8.50 to 11.5	103	70.0 to 130	4.03	20.0
BD09414	Selenium, Dissolved	mg/L	0.0000983	0.00100	0.100	0.105	0.105	0.0994	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09413	Selenium, Total	mg/L	0.0000945	0.00100	0.100	0.102	0.104	0.100	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD09414	Silicon, Dissolved	mg/L	0.000205	0.0440	1.00	10.1	10.2	1.03	0.850 to 1.15	91.0	70.0 to 130	0.985	20.0
BD09413	Silicon, Total	mg/L	-0.000531	0.0440	1.00	10.3	10.3	1.02	0.850 to 1.15	94.0	70.0 to 130	0.00	20.0
BD09414	Sodium, Dissolved	mg/L	0.00326	0.0880	5.00	49.7	52.0	4.93	4.25 to 5.75	90.0	70.0 to 130	4.52	20.0
BD09413	Sodium, Total	mg/L	0.00301	0.0880	5.00	49.8	48.8	4.95	4.25 to 5.75	48.0	70.0 to 130	2.03	20.0
BD09413	Sulfate	mg/L	-0.146	2.0	100	208	218	19.6	18.0 to 22.0	86.0	80.0 to 120	4.69	20.0
BD09414	Thallium, Dissolved	mg/L	-0.0000344	0.000147	0.100	0.107	0.106	0.108	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09413	Thallium, Total	mg/L	-0.0000382	0.000147	0.100	0.108	0.107	0.104	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD09412	Total Organic Carbon	mg/L	0.0680	1.00	10.0	10.1	10.4	9.88		101	80.0 to 120	2.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/16/23 11:05

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-24

**Laboratory ID Number:** BD09408

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09411	Alkalinity	mg CaCO3/L					241	51.2	45.0 to 55.0			0.414	10.0
BD09413	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.08	0.300	1.91	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD09411	Solids, Dissolved	mg/L	0.0000	25.0			500	50.0	40.0 to 60.0			0.803	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - PZ-4

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 08:53  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09409

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/19/23 11:37	5/22/23 13:58		1.015	0.316	mg/L	0.030000	0.1015	
* Calcium, Total	5/19/23 11:37	5/24/23 11:59		10.15	207	mg/L	0.70035	4.06	
* Iron, Total	5/19/23 11:37	5/24/23 12:02		101.5	162	mg/L	0.8120	4.06	
* Lithium, Total	5/19/23 11:37	5/22/23 13:58		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/19/23 11:37	5/24/23 11:59		10.15	43.2	mg/L	0.21315	4.06	
* Molybdenum, Total	5/19/23 11:37	5/22/23 13:58		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 13:58		1	11.0	mg/L			
* Silicon, Total	5/19/23 11:37	5/22/23 13:58		1.015	5.14	mg/L	0.02030	0.25375	
* Sodium, Total	5/19/23 11:37	5/22/23 13:58		1.015	19.6	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/19/23 08:47	5/19/23 11:05		1.015	0.314	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/19/23 08:47	5/19/23 14:19		10.15	214	mg/L	0.70035	4.06	
* Iron, Dissolved	5/19/23 08:47	5/19/23 14:23		101.5	165	mg/L	0.8120	4.06	
* Lithium, Dissolved	5/19/23 08:47	5/19/23 11:05		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/19/23 08:47	5/19/23 14:19		10.15	45.0	mg/L	0.21315	4.06	
* Molybdenum, Dissolved	5/19/23 08:47	5/19/23 11:05		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/19/23 08:47	5/19/23 11:05		1	10.9	mg/L			
* Silicon, Dissolved	5/19/23 08:47	5/19/23 11:05		1.015	5.11	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/19/23 08:47	5/19/23 11:05		1.015	19.6	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/19/23 11:37	5/22/23 11:33		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/19/23 11:37	5/19/23 19:16		1.015	0.476	mg/L	0.009135	0.05075	
* Arsenic, Total	5/19/23 11:37	5/19/23 19:16		1.015	0.00189	mg/L	0.000112	0.000203	
* Barium, Total	5/19/23 11:37	5/22/23 11:33		1.015	0.0633	mg/L	0.000508	0.001015	
* Beryllium, Total	5/19/23 11:37	5/19/23 19:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/19/23 11:37	5/22/23 11:33		1.015	0.000254	mg/L	0.000068	0.000203	
* Chromium, Total	5/19/23 11:37	5/19/23 19:16		1.015	0.000317	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/19/23 11:37	5/19/23 19:16		1.015	0.755	mg/L	0.000068	0.000203	
* Lead, Total	5/19/23 11:37	5/19/23 19:16		1.015	0.000334	mg/L	0.000068	0.000203	
* Manganese, Total	5/19/23 11:37	5/19/23 20:20		92.365	14.8	mg/L	0.013855	0.092365	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - PZ-4

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 08:53  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09409

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/19/23 11:37	5/19/23 19:16		1.015	6.70	mg/L	0.169505	0.5075	
* Selenium, Total	5/19/23 11:37	5/22/23 11:33		1.015	0.00189	mg/L	0.000508	0.001015	
* Thallium, Total	5/19/23 11:37	5/19/23 19:16		1.015	0.0000839	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/19/23 08:47	5/19/23 11:58		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/19/23 08:47	5/19/23 11:58		1.015	0.382	mg/L	0.009135	0.05075	
* Arsenic, Dissolved	5/19/23 08:47	5/22/23 09:49		1.015	0.00184	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/19/23 08:47	5/19/23 11:58		1.015	0.0587	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/19/23 08:47	5/19/23 11:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/19/23 08:47	5/19/23 11:58		1.015	0.000291	mg/L	0.000068	0.000203	
* Chromium, Dissolved	5/19/23 08:47	5/19/23 11:58		1.015	0.000229	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/19/23 08:47	5/19/23 11:58		1.015	0.755	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/19/23 08:47	5/19/23 11:58		1.015	0.000253	mg/L	0.000068	0.000203	
* Manganese, Dissolved	5/19/23 08:47	5/19/23 13:52		92.365	15.0	mg/L	0.013855	0.092365	
* Potassium, Dissolved	5/19/23 08:47	5/19/23 11:58		1.015	6.59	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/19/23 08:47	5/19/23 11:58		1.015	0.00172	mg/L	0.000508	0.001015	
* Thallium, Dissolved	5/19/23 08:47	5/19/23 11:58		1.015	0.0000926	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	5/19/23 18:40	5/19/23 23:06		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	5/19/23 12:50	5/19/23 12:50		1	0.414	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/24/23 10:42	5/24/23 13:43		1	27.3	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/18/23 13:20	5/22/23 10:19		1	1330	mg/L		75.8	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/24/23 10:42	5/24/23 13:43		1	27.3	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/24/23 10:42	5/24/23 13:43		1	Not Detected	mg CaCO3/L		0.5	A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 13:52	5/22/23 13:52		1	1.10	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - PZ-4

**Location Code:** WMWGREAP

**Collected:** 5/17/23 08:53

**Customer ID:**

**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09409

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 10:54	5/24/23 10:54		1	7.79	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 09:29	5/25/23 09:29		1	0.0997	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 14:38	5/18/23 14:38		40	840	mg/L	24.0	80	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/17/23 08:50	5/17/23 08:50			1496.60	uS/cm			FA
pH	5/17/23 08:50	5/17/23 08:50			5.34	SU			FA
Temperature	5/17/23 08:50	5/17/23 08:50			21.19	C			FA
Turbidity	5/17/23 08:50	5/17/23 08:50			2.04	NTU			FA
Sulfide	5/17/23 08:50	5/17/23 08:50			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 08:53

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - PZ-4

**Laboratory ID Number:** BD09409

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD09414	Aluminum, Dissolved	mg/L	0.000272	0.0198	0.100	0.0961	0.0987	0.102	0.0850 to 0.115	96.1	70.0 to 130	2.67	20.0	
BD09413	Aluminum, Total	mg/L	0.000592	0.0198	0.100	0.106	0.110	0.105	0.0850 to 0.115	106	70.0 to 130	3.70	20.0	
BD09414	Antimony, Dissolved	mg/L	0.000372	0.00100	0.100	0.100	0.102	0.0957	0.0850 to 0.115	100	70.0 to 130	1.98	20.0	
BD09413	Antimony, Total	mg/L	0.000506	0.00100	0.100	0.110	0.113	0.0980	0.0850 to 0.115	110	70.0 to 130	2.69	20.0	
BD09414	Arsenic, Dissolved	mg/L	0.0000295	0.000200	0.100	1.12	1.12	0.102	0.0850 to 0.115	120	70.0 to 130	0.00	20.0	
BD09413	Arsenic, Total	mg/L	0.0000479	0.000200	0.100	1.17	1.21	0.103	0.0850 to 0.115	110	70.0 to 130	3.36	20.0	
BD09414	Barium, Dissolved	mg/L	0.0000666	0.00100	0.100	0.391	0.392	0.107	0.0850 to 0.115	104	70.0 to 130	0.255	20.0	
BD09413	Barium, Total	mg/L	0.0000335	0.00100	0.100	0.393	0.413	0.108	0.0850 to 0.115	102	70.0 to 130	4.96	20.0	
BD09414	Beryllium, Dissolved	mg/L	0.0000326	0.000880	0.100	0.0916	0.0943	0.101	0.0850 to 0.115	91.6	70.0 to 130	2.90	20.0	
BD09413	Beryllium, Total	mg/L	0.0000362	0.000880	0.100	0.109	0.110	0.0979	0.0850 to 0.115	109	70.0 to 130	0.913	20.0	
BD09414	Boron, Dissolved	mg/L	-0.00223	0.0650	1.00	3.44	3.45	1.01	0.850 to 1.15	102	70.0 to 130	0.290	20.0	
BD09413	Boron, Total	mg/L	-0.000214	0.0650	1.00	3.51	3.53	1.04	0.850 to 1.15	103	70.0 to 130	0.568	20.0	
BD09414	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0	
BD09413	Cadmium, Total	mg/L	0.0000112	0.000147	0.100	0.105	0.108	0.105	0.0850 to 0.115	105	70.0 to 130	2.82	20.0	
BD09414	Calcium, Dissolved	mg/L	-0.0003	0.152	5.00	145	149	5.10	4.25 to 5.75	60.0	70.0 to 130	2.72	20.0	
BD09413	Calcium, Total	mg/L	0.00227	0.152	5.00	140	140	5.20	4.25 to 5.75	-140	70.0 to 130	0.00	20.0	
BD09413	Chloride	mg/L	0.0255	1.00	10.0	19.7	19.7	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0	
BD09414	Chromium, Dissolved	mg/L	0.0000152	0.000440	0.100	0.0977	0.0997	0.103	0.0850 to 0.115	97.4	70.0 to 130	2.03	20.0	
BD09413	Chromium, Total	mg/L	0.0000119	0.000440	0.100	0.102	0.105	0.103	0.0850 to 0.115	102	70.0 to 130	2.90	20.0	
BD09414	Cobalt, Dissolved	mg/L	-0.0000463	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	98.6	70.0 to 130	1.85	20.0	
BD09413	Cobalt, Total	mg/L	-0.0000426	0.000147	0.100	0.111	0.115	0.106	0.0850 to 0.115	103	70.0 to 130	3.54	20.0	
BD09413	Fluoride	mg/L	0.0418	0.125	2.50	3.15	3.23	2.60	2.25 to 2.75	105	80.0 to 120	2.51	20.0	
BD09414	Iron, Dissolved	mg/L	0.00336	0.0176	0.2	39.6	40.2	0.205	0.170 to 0.230	250	70.0 to 130	1.50	20.0	
BD09413	Iron, Total	mg/L	0.00162	0.0176	0.2	39.4	39.1	0.204	0.170 to 0.230	450	70.0 to 130	0.764	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 08:53

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - PZ-4

**Laboratory ID Number:** BD09409

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09414	Lead, Dissolved	mg/L	0.000015	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09413	Lead, Total	mg/L	0.0000146	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09414	Lithium, Dissolved	mg/L	0.000031	0.0154	0.200	0.905	0.907	0.199	0.170 to 0.230	98.5	70.0 to 130	0.221	20.0
BD09413	Lithium, Total	mg/L	0.000312	0.0154	0.200	0.898	0.925	0.199	0.170 to 0.230	95.0	70.0 to 130	2.96	20.0
BD09414	Magnesium, Dissolved	mg/L	0.00778	0.0462	5.00	34.7	35.2	4.97	4.25 to 5.75	92.0	70.0 to 130	1.43	20.0
BD09413	Magnesium, Total	mg/L	0.00480	0.0462	5.00	35.6	36.4	5.07	4.25 to 5.75	88.0	70.0 to 130	2.22	20.0
BD09414	Manganese, Dissolved	mg/L	0.000204	0.00033	0.100	2.05	2.08	0.104	0.0850 to 0.115	30.0	70.0 to 130	1.45	20.0
BD09413	Manganese, Total	mg/L	0.000115	0.00033	0.100	2.15	2.12	0.105	0.0850 to 0.115	110	70.0 to 130	1.41	20.0
BD09413	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00391	0.00392	0.00398	0.00340 to 0.00460	97.8	70.0 to 130	0.255	20.0
BD09414	Molybdenum, Dissolved	mg/L	0.00256	0.0100	0.2	0.245	0.249	0.202	0.170 to 0.230	98.0	70.0 to 130	1.62	20.0
BD09413	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.245	0.251	0.200	0.170 to 0.230	97.6	70.0 to 130	2.42	20.0
BD09414	Potassium, Dissolved	mg/L	0.0100	0.367	10.0	22.8	23.4	10.0	8.50 to 11.5	89.0	70.0 to 130	2.60	20.0
BD09413	Potassium, Total	mg/L	0.0111	0.367	10.0	24.3	25.3	10.3	8.50 to 11.5	103	70.0 to 130	4.03	20.0
BD09414	Selenium, Dissolved	mg/L	0.0000983	0.00100	0.100	0.105	0.105	0.0994	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09413	Selenium, Total	mg/L	0.0000945	0.00100	0.100	0.102	0.104	0.100	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD09414	Silicon, Dissolved	mg/L	0.000205	0.0440	1.00	10.1	10.2	1.03	0.850 to 1.15	91.0	70.0 to 130	0.985	20.0
BD09413	Silicon, Total	mg/L	-0.000531	0.0440	1.00	10.3	10.3	1.02	0.850 to 1.15	94.0	70.0 to 130	0.00	20.0
BD09414	Sodium, Dissolved	mg/L	0.00326	0.0880	5.00	49.7	52.0	4.93	4.25 to 5.75	90.0	70.0 to 130	4.52	20.0
BD09413	Sodium, Total	mg/L	0.00301	0.0880	5.00	49.8	48.8	4.95	4.25 to 5.75	48.0	70.0 to 130	2.03	20.0
BD09413	Sulfate	mg/L	-0.146	2.0	100	208	218	19.6	18.0 to 22.0	86.0	80.0 to 120	4.69	20.0
BD09414	Thallium, Dissolved	mg/L	-0.0000344	0.000147	0.100	0.107	0.106	0.108	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09413	Thallium, Total	mg/L	-0.0000382	0.000147	0.100	0.108	0.107	0.104	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD09412	Total Organic Carbon	mg/L	0.0680	1.00	10.0	10.1	10.4	9.88		101	80.0 to 120	2.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 08:53

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - PZ-4

**Laboratory ID Number:** BD09409

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09411	Alkalinity	mg CaCO3/L					241	51.2	45.0 to 55.0			0.414	10.0
BD09413	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.08	0.300	1.91	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD09411	Solids, Dissolved	mg/L	0.0000	25.0			500	50.0	40.0 to 60.0			0.803	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-2

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 10:03  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09410

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/19/23 11:37	5/22/23 14:01		1.015	0.143	mg/L	0.030000	0.1015	
* Calcium, Total	5/19/23 11:37	5/24/23 12:06		101.5	204	mg/L	7.0035	40.6	
* Iron, Total	5/19/23 11:37	5/24/23 12:06		101.5	82.4	mg/L	0.8120	4.06	
* Lithium, Total	5/19/23 11:37	5/22/23 14:01		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/19/23 11:37	5/22/23 14:01		1.015	27.1	mg/L	0.021315	0.406	
* Molybdenum, Total	5/19/23 11:37	5/22/23 14:01		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 14:01		1	11.0	mg/L			
* Silicon, Total	5/19/23 11:37	5/22/23 14:01		1.015	5.12	mg/L	0.02030	0.25375	
* Sodium, Total	5/19/23 11:37	5/22/23 14:01		1.015	32.1	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>							
* Boron, Dissolved	5/19/23 08:47	5/19/23 11:08		1.015	0.114	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/19/23 08:47	5/19/23 14:26		101.5	199	mg/L	7.0035	40.6	
* Iron, Dissolved	5/19/23 08:47	5/19/23 14:26		101.5	80.8	mg/L	0.8120	4.06	
* Lithium, Dissolved	5/19/23 08:47	5/19/23 11:08		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/19/23 08:47	5/19/23 11:08		1.015	26.4	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/19/23 08:47	5/19/23 11:08		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/19/23 08:47	5/19/23 11:08		1	10.9	mg/L			
* Silicon, Dissolved	5/19/23 08:47	5/19/23 11:08		1.015	5.11	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/19/23 08:47	5/19/23 11:08		1.015	32.3	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/19/23 11:37	5/19/23 19:19		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	5/19/23 11:37	5/19/23 19:19		1.015	0.00431	mg/L	0.000112	0.000203	
* Aluminum, Total	5/19/23 11:37	5/19/23 19:19		1.015	0.0190	mg/L	0.009135	0.05075	J
* Barium, Total	5/19/23 11:37	5/19/23 19:19		1.015	0.0298	mg/L	0.000508	0.001015	
* Beryllium, Total	5/19/23 11:37	5/19/23 19:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/19/23 11:37	5/19/23 19:19		1.015	0.0000774	mg/L	0.000068	0.000203	J
* Chromium, Total	5/19/23 11:37	5/19/23 19:19		1.015	0.000305	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/19/23 11:37	5/19/23 19:19		1.015	0.0394	mg/L	0.000068	0.000203	
* Lead, Total	5/19/23 11:37	5/19/23 19:19		1.015	0.000464	mg/L	0.000068	0.000203	
* Manganese, Total	5/19/23 11:37	5/19/23 20:23		10.15	7.33	mg/L	0.001522	0.01015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-2

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 10:03  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09410

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/19/23 11:37	5/19/23 19:19		1.015	6.69	mg/L	0.169505	0.5075	
* Selenium, Total	5/19/23 11:37	5/19/23 19:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/19/23 11:37	5/19/23 19:19		1.015	0.0000943	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/19/23 08:47	5/22/23 09:52		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/19/23 08:47	5/19/23 12:02		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/19/23 08:47	5/22/23 09:52		1.015	0.00359	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/19/23 08:47	5/22/23 09:52		1.015	0.0309	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/19/23 08:47	5/19/23 12:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/19/23 08:47	5/22/23 09:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/19/23 08:47	5/19/23 12:02		1.015	0.000253	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/19/23 08:47	5/19/23 12:02		1.015	0.0393	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/19/23 08:47	5/19/23 12:02		1.015	0.000434	mg/L	0.000068	0.000203	
* Manganese, Dissolved	5/19/23 08:47	5/19/23 13:56		10.15	7.28	mg/L	0.001522	0.01015	
* Potassium, Dissolved	5/19/23 08:47	5/19/23 12:02		1.015	6.63	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/19/23 08:47	5/22/23 09:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/19/23 08:47	5/19/23 12:02		1.015	0.0000978	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	5/19/23 18:40	5/19/23 23:10		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	5/19/23 12:52	5/19/23 12:52		1	0.258	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/24/23 10:42	5/24/23 13:43		1	39.9	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/18/23 13:20	5/22/23 10:19		1	1030	mg/L		75.8	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/24/23 10:42	5/24/23 13:43		1	39.9	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/24/23 10:42	5/24/23 13:43		1	Not Detected	mg CaCO3/L		0.5	A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 14:08	5/22/23 14:08		1	1.62	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-2

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 10:03  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09410

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 10:56	5/24/23 10:56		1	9.92	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 09:30	5/25/23 09:30		1	0.0918	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 14:39	5/18/23 14:39		32	689	mg/L	19.2	64	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/17/23 09:59	5/17/23 09:59			1348.39	uS/cm			FA
pH	5/17/23 09:59	5/17/23 09:59			5.79	SU			FA
Temperature	5/17/23 09:59	5/17/23 09:59			20.09	C			FA
Turbidity	5/17/23 09:59	5/17/23 09:59			1.8	NTU			FA
Sulfide	5/17/23 09:59	5/17/23 09:59			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 10:03

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-2

**Laboratory ID Number:** BD09410

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD09414	Aluminum, Dissolved	mg/L	0.000272	0.0198	0.100	0.0961	0.0987	0.102	0.0850 to 0.115	96.1	70.0 to 130	2.67	20.0
BD09413	Aluminum, Total	mg/L	0.000592	0.0198	0.100	0.106	0.110	0.105	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BD09414	Antimony, Dissolved	mg/L	0.000372	0.00100	0.100	0.100	0.102	0.0957	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD09413	Antimony, Total	mg/L	0.000506	0.00100	0.100	0.110	0.113	0.0980	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD09414	Arsenic, Dissolved	mg/L	0.0000295	0.000200	0.100	1.12	1.12	0.102	0.0850 to 0.115	120	70.0 to 130	0.00	20.0
BD09413	Arsenic, Total	mg/L	0.0000479	0.000200	0.100	1.17	1.21	0.103	0.0850 to 0.115	110	70.0 to 130	3.36	20.0
BD09414	Barium, Dissolved	mg/L	0.0000666	0.00100	0.100	0.391	0.392	0.107	0.0850 to 0.115	104	70.0 to 130	0.255	20.0
BD09413	Barium, Total	mg/L	0.0000335	0.00100	0.100	0.393	0.413	0.108	0.0850 to 0.115	102	70.0 to 130	4.96	20.0
BD09414	Beryllium, Dissolved	mg/L	0.0000326	0.000880	0.100	0.0916	0.0943	0.101	0.0850 to 0.115	91.6	70.0 to 130	2.90	20.0
BD09413	Beryllium, Total	mg/L	0.0000362	0.000880	0.100	0.109	0.110	0.0979	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BD09414	Boron, Dissolved	mg/L	-0.00223	0.0650	1.00	3.44	3.45	1.01	0.850 to 1.15	102	70.0 to 130	0.290	20.0
BD09413	Boron, Total	mg/L	-0.000214	0.0650	1.00	3.51	3.53	1.04	0.850 to 1.15	103	70.0 to 130	0.568	20.0
BD09414	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD09413	Cadmium, Total	mg/L	0.0000112	0.000147	0.100	0.105	0.108	0.105	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BD09414	Calcium, Dissolved	mg/L	-0.0003	0.152	5.00	145	149	5.10	4.25 to 5.75	60.0	70.0 to 130	2.72	20.0
BD09413	Calcium, Total	mg/L	0.00227	0.152	5.00	140	140	5.20	4.25 to 5.75	-140	70.0 to 130	0.00	20.0
BD09413	Chloride	mg/L	0.0255	1.00	10.0	19.7	19.7	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0
BD09414	Chromium, Dissolved	mg/L	0.0000152	0.000440	0.100	0.0977	0.0997	0.103	0.0850 to 0.115	97.4	70.0 to 130	2.03	20.0
BD09413	Chromium, Total	mg/L	0.0000119	0.000440	0.100	0.102	0.105	0.103	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD09414	Cobalt, Dissolved	mg/L	-0.0000463	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	98.6	70.0 to 130	1.85	20.0
BD09413	Cobalt, Total	mg/L	-0.0000426	0.000147	0.100	0.111	0.115	0.106	0.0850 to 0.115	103	70.0 to 130	3.54	20.0
BD09413	Fluoride	mg/L	0.0418	0.125	2.50	3.15	3.23	2.60	2.25 to 2.75	105	80.0 to 120	2.51	20.0
BD09414	Iron, Dissolved	mg/L	0.00336	0.0176	0.2	39.6	40.2	0.205	0.170 to 0.230	250	70.0 to 130	1.50	20.0
BD09413	Iron, Total	mg/L	0.00162	0.0176	0.2	39.4	39.1	0.204	0.170 to 0.230	450	70.0 to 130	0.764	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 10:03

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-2

**Laboratory ID Number:** BD09410

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09414	Lead, Dissolved	mg/L	0.000015	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09413	Lead, Total	mg/L	0.0000146	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09414	Lithium, Dissolved	mg/L	0.000031	0.0154	0.200	0.905	0.907	0.199	0.170 to 0.230	98.5	70.0 to 130	0.221	20.0
BD09413	Lithium, Total	mg/L	0.000312	0.0154	0.200	0.898	0.925	0.199	0.170 to 0.230	95.0	70.0 to 130	2.96	20.0
BD09414	Magnesium, Dissolved	mg/L	0.00778	0.0462	5.00	34.7	35.2	4.97	4.25 to 5.75	92.0	70.0 to 130	1.43	20.0
BD09413	Magnesium, Total	mg/L	0.00480	0.0462	5.00	35.6	36.4	5.07	4.25 to 5.75	88.0	70.0 to 130	2.22	20.0
BD09414	Manganese, Dissolved	mg/L	0.000204	0.00033	0.100	2.05	2.08	0.104	0.0850 to 0.115	30.0	70.0 to 130	1.45	20.0
BD09413	Manganese, Total	mg/L	0.000115	0.00033	0.100	2.15	2.12	0.105	0.0850 to 0.115	110	70.0 to 130	1.41	20.0
BD09413	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00391	0.00392	0.00398	0.00340 to 0.00460	97.8	70.0 to 130	0.255	20.0
BD09414	Molybdenum, Dissolved	mg/L	0.00256	0.0100	0.2	0.245	0.249	0.202	0.170 to 0.230	98.0	70.0 to 130	1.62	20.0
BD09413	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.245	0.251	0.200	0.170 to 0.230	97.6	70.0 to 130	2.42	20.0
BD09414	Potassium, Dissolved	mg/L	0.0100	0.367	10.0	22.8	23.4	10.0	8.50 to 11.5	89.0	70.0 to 130	2.60	20.0
BD09413	Potassium, Total	mg/L	0.0111	0.367	10.0	24.3	25.3	10.3	8.50 to 11.5	103	70.0 to 130	4.03	20.0
BD09414	Selenium, Dissolved	mg/L	0.0000983	0.00100	0.100	0.105	0.105	0.0994	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09413	Selenium, Total	mg/L	0.0000945	0.00100	0.100	0.102	0.104	0.100	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD09414	Silicon, Dissolved	mg/L	0.000205	0.0440	1.00	10.1	10.2	1.03	0.850 to 1.15	91.0	70.0 to 130	0.985	20.0
BD09413	Silicon, Total	mg/L	-0.000531	0.0440	1.00	10.3	10.3	1.02	0.850 to 1.15	94.0	70.0 to 130	0.00	20.0
BD09414	Sodium, Dissolved	mg/L	0.00326	0.0880	5.00	49.7	52.0	4.93	4.25 to 5.75	90.0	70.0 to 130	4.52	20.0
BD09413	Sodium, Total	mg/L	0.00301	0.0880	5.00	49.8	48.8	4.95	4.25 to 5.75	48.0	70.0 to 130	2.03	20.0
BD09413	Sulfate	mg/L	-0.146	2.0	100	208	218	19.6	18.0 to 22.0	86.0	80.0 to 120	4.69	20.0
BD09414	Thallium, Dissolved	mg/L	-0.0000344	0.000147	0.100	0.107	0.106	0.108	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09413	Thallium, Total	mg/L	-0.0000382	0.000147	0.100	0.108	0.107	0.104	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD09412	Total Organic Carbon	mg/L	0.0680	1.00	10.0	10.1	10.4	9.88		101	80.0 to 120	2.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 10:03

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-2

**Laboratory ID Number:** BD09410

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09411	Alkalinity	mg CaCO3/L					241	51.2	45.0 to 55.0			0.414	10.0
BD09413	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.08	0.300	1.91	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD09411	Solids, Dissolved	mg/L	0.0000	25.0			500	50.0	40.0 to 60.0			0.803	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-5

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 11:00  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09411

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/19/23 11:37	5/22/23 14:04		1.015	0.515	mg/L	0.030000	0.1015	
* Calcium, Total	5/19/23 11:37	5/24/23 12:09		10.15	111	mg/L	0.70035	4.06	
* Iron, Total	5/19/23 11:37	5/24/23 12:09		10.15	38.1	mg/L	0.08120	0.406	
* Lithium, Total	5/19/23 11:37	5/22/23 14:04		1.015	0.0817	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/19/23 11:37	5/22/23 14:04		1.015	21.5	mg/L	0.021315	0.406	
* Molybdenum, Total	5/19/23 11:37	5/22/23 14:04		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 14:04		1	17.6	mg/L			
* Silicon, Total	5/19/23 11:37	5/22/23 14:04		1.015	8.24	mg/L	0.02030	0.25375	
* Sodium, Total	5/19/23 11:37	5/22/23 14:04		1.015	20.5	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>						
* Boron, Dissolved	5/19/23 08:47	5/19/23 11:11		1.015	0.494	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/19/23 08:47	5/19/23 14:29		10.15	111	mg/L	0.70035	4.06	
* Iron, Dissolved	5/19/23 08:47	5/19/23 14:29		10.15	39.4	mg/L	0.08120	0.406	
* Lithium, Dissolved	5/19/23 08:47	5/19/23 11:11		1.015	0.0783	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/19/23 08:47	5/19/23 11:11		1.015	21.2	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/19/23 08:47	5/19/23 11:11		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/19/23 08:47	5/19/23 11:11		1	17.7	mg/L			
* Silicon, Dissolved	5/19/23 08:47	5/19/23 11:11		1.015	8.27	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/19/23 08:47	5/19/23 11:11		1.015	20.1	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/19/23 11:37	5/19/23 19:23		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/19/23 11:37	5/19/23 19:23		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/19/23 11:37	5/19/23 19:23		1.015	0.405	mg/L	0.000112	0.000203	
* Barium, Total	5/19/23 11:37	5/19/23 19:23		1.015	0.136	mg/L	0.000508	0.001015	
* Beryllium, Total	5/19/23 11:37	5/19/23 19:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/19/23 11:37	5/19/23 19:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/19/23 11:37	5/19/23 19:23		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/19/23 11:37	5/19/23 19:23		1.015	0.00833	mg/L	0.000068	0.000203	
* Lead, Total	5/19/23 11:37	5/19/23 19:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/19/23 11:37	5/19/23 20:27		5.075	1.95	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-5

**Location Code:** WMWGREAP

**Collected:** 5/17/23 11:00

**Customer ID:**

**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09411

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/19/23 11:37	5/19/23 19:23		1.015	6.55	mg/L	0.169505	0.5075	
* Selenium, Total	5/19/23 11:37	5/19/23 19:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/19/23 11:37	5/19/23 19:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/19/23 08:47	5/19/23 12:05		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/19/23 08:47	5/19/23 12:05		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/19/23 08:47	5/22/23 09:56		1.015	0.390	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/19/23 08:47	5/19/23 12:05		1.015	0.140	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/19/23 08:47	5/19/23 12:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/19/23 08:47	5/19/23 12:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/19/23 08:47	5/19/23 12:05		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/19/23 08:47	5/19/23 12:05		1.015	0.00849	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/19/23 08:47	5/19/23 12:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/19/23 08:47	5/19/23 13:59		5.075	2.04	mg/L	0.000761	0.005075	
* Potassium, Dissolved	5/19/23 08:47	5/19/23 12:05		1.015	6.27	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/19/23 08:47	5/19/23 12:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/19/23 08:47	5/19/23 12:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	5/19/23 18:40	5/19/23 23:14		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	5/19/23 12:54	5/19/23 12:54		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/24/23 10:42	5/24/23 13:43		1	242	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/18/23 13:20	5/22/23 10:19		1	496	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/24/23 10:42	5/24/23 13:43		1	242	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/24/23 10:42	5/24/23 13:43		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 14:24	5/22/23 14:24		1	1.56	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-5

**Location Code:** WMWGREAP

**Collected:** 5/17/23 11:00

**Customer ID:**

**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09411

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 10:57	5/24/23 10:57		1	8.40	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 09:31	5/25/23 09:31		1	0.240	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 14:40	5/18/23 14:40		8	163	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/17/23 10:56	5/17/23 10:56			810.34	uS/cm			FA
pH	5/17/23 10:56	5/17/23 10:56			6.64	SU			FA
Temperature	5/17/23 10:56	5/17/23 10:56			19.13	C			FA
Turbidity	5/17/23 10:56	5/17/23 10:56			1.8	NTU			FA
Sulfide	5/17/23 10:56	5/17/23 10:56			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 5/17/23 11:00  
**Customer ID:**  
**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-5

**Laboratory ID Number:** BD09411

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09414	Aluminum, Dissolved	mg/L	0.000272	0.0198	0.100	0.0961	0.0987	0.102	0.0850 to 0.115	96.1	70.0 to 130	2.67	20.0
BD09413	Aluminum, Total	mg/L	0.000592	0.0198	0.100	0.106	0.110	0.105	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BD09414	Antimony, Dissolved	mg/L	0.000372	0.00100	0.100	0.100	0.102	0.0957	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD09413	Antimony, Total	mg/L	0.000506	0.00100	0.100	0.110	0.113	0.0980	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD09414	Arsenic, Dissolved	mg/L	0.0000295	0.000200	0.100	1.12	1.12	0.102	0.0850 to 0.115	120	70.0 to 130	0.00	20.0
BD09413	Arsenic, Total	mg/L	0.0000479	0.000200	0.100	1.17	1.21	0.103	0.0850 to 0.115	110	70.0 to 130	3.36	20.0
BD09414	Barium, Dissolved	mg/L	0.0000666	0.00100	0.100	0.391	0.392	0.107	0.0850 to 0.115	104	70.0 to 130	0.255	20.0
BD09413	Barium, Total	mg/L	0.0000335	0.00100	0.100	0.393	0.413	0.108	0.0850 to 0.115	102	70.0 to 130	4.96	20.0
BD09414	Beryllium, Dissolved	mg/L	0.0000326	0.000880	0.100	0.0916	0.0943	0.101	0.0850 to 0.115	91.6	70.0 to 130	2.90	20.0
BD09413	Beryllium, Total	mg/L	0.0000362	0.000880	0.100	0.109	0.110	0.0979	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BD09414	Boron, Dissolved	mg/L	-0.00223	0.0650	1.00	3.44	3.45	1.01	0.850 to 1.15	102	70.0 to 130	0.290	20.0
BD09413	Boron, Total	mg/L	-0.000214	0.0650	1.00	3.51	3.53	1.04	0.850 to 1.15	103	70.0 to 130	0.568	20.0
BD09414	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD09413	Cadmium, Total	mg/L	0.0000112	0.000147	0.100	0.105	0.108	0.105	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BD09414	Calcium, Dissolved	mg/L	-0.0003	0.152	5.00	145	149	5.10	4.25 to 5.75	60.0	70.0 to 130	2.72	20.0
BD09413	Calcium, Total	mg/L	0.00227	0.152	5.00	140	140	5.20	4.25 to 5.75	-140	70.0 to 130	0.00	20.0
BD09413	Chloride	mg/L	0.0255	1.00	10.0	19.7	19.7	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0
BD09414	Chromium, Dissolved	mg/L	0.0000152	0.000440	0.100	0.0977	0.0997	0.103	0.0850 to 0.115	97.4	70.0 to 130	2.03	20.0
BD09413	Chromium, Total	mg/L	0.0000119	0.000440	0.100	0.102	0.105	0.103	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD09414	Cobalt, Dissolved	mg/L	-0.0000463	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	98.6	70.0 to 130	1.85	20.0
BD09413	Cobalt, Total	mg/L	-0.0000426	0.000147	0.100	0.111	0.115	0.106	0.0850 to 0.115	103	70.0 to 130	3.54	20.0
BD09413	Fluoride	mg/L	0.0418	0.125	2.50	3.15	3.23	2.60	2.25 to 2.75	105	80.0 to 120	2.51	20.0
BD09414	Iron, Dissolved	mg/L	0.00336	0.0176	0.2	39.6	40.2	0.205	0.170 to 0.230	250	70.0 to 130	1.50	20.0
BD09413	Iron, Total	mg/L	0.00162	0.0176	0.2	39.4	39.1	0.204	0.170 to 0.230	450	70.0 to 130	0.764	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 11:00

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-5

**Laboratory ID Number:** BD09411

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09414	Lead, Dissolved	mg/L	0.000015	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09413	Lead, Total	mg/L	0.0000146	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09414	Lithium, Dissolved	mg/L	0.000031	0.0154	0.200	0.905	0.907	0.199	0.170 to 0.230	98.5	70.0 to 130	0.221	20.0
BD09413	Lithium, Total	mg/L	0.000312	0.0154	0.200	0.898	0.925	0.199	0.170 to 0.230	95.0	70.0 to 130	2.96	20.0
BD09414	Magnesium, Dissolved	mg/L	0.00778	0.0462	5.00	34.7	35.2	4.97	4.25 to 5.75	92.0	70.0 to 130	1.43	20.0
BD09413	Magnesium, Total	mg/L	0.00480	0.0462	5.00	35.6	36.4	5.07	4.25 to 5.75	88.0	70.0 to 130	2.22	20.0
BD09414	Manganese, Dissolved	mg/L	0.000204	0.00033	0.100	2.05	2.08	0.104	0.0850 to 0.115	30.0	70.0 to 130	1.45	20.0
BD09413	Manganese, Total	mg/L	0.000115	0.00033	0.100	2.15	2.12	0.105	0.0850 to 0.115	110	70.0 to 130	1.41	20.0
BD09413	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00391	0.00392	0.00398	0.00340 to 0.00460	97.8	70.0 to 130	0.255	20.0
BD09414	Molybdenum, Dissolved	mg/L	0.00256	0.0100	0.2	0.245	0.249	0.202	0.170 to 0.230	98.0	70.0 to 130	1.62	20.0
BD09413	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.245	0.251	0.200	0.170 to 0.230	97.6	70.0 to 130	2.42	20.0
BD09414	Potassium, Dissolved	mg/L	0.0100	0.367	10.0	22.8	23.4	10.0	8.50 to 11.5	89.0	70.0 to 130	2.60	20.0
BD09413	Potassium, Total	mg/L	0.0111	0.367	10.0	24.3	25.3	10.3	8.50 to 11.5	103	70.0 to 130	4.03	20.0
BD09414	Selenium, Dissolved	mg/L	0.0000983	0.00100	0.100	0.105	0.105	0.0994	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09413	Selenium, Total	mg/L	0.0000945	0.00100	0.100	0.102	0.104	0.100	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD09414	Silicon, Dissolved	mg/L	0.000205	0.0440	1.00	10.1	10.2	1.03	0.850 to 1.15	91.0	70.0 to 130	0.985	20.0
BD09413	Silicon, Total	mg/L	-0.000531	0.0440	1.00	10.3	10.3	1.02	0.850 to 1.15	94.0	70.0 to 130	0.00	20.0
BD09414	Sodium, Dissolved	mg/L	0.00326	0.0880	5.00	49.7	52.0	4.93	4.25 to 5.75	90.0	70.0 to 130	4.52	20.0
BD09413	Sodium, Total	mg/L	0.00301	0.0880	5.00	49.8	48.8	4.95	4.25 to 5.75	48.0	70.0 to 130	2.03	20.0
BD09413	Sulfate	mg/L	-0.146	2.0	100	208	218	19.6	18.0 to 22.0	86.0	80.0 to 120	4.69	20.0
BD09414	Thallium, Dissolved	mg/L	-0.0000344	0.000147	0.100	0.107	0.106	0.108	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09413	Thallium, Total	mg/L	-0.0000382	0.000147	0.100	0.108	0.107	0.104	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD09412	Total Organic Carbon	mg/L	0.0680	1.00	10.0	10.1	10.4	9.88		101	80.0 to 120	2.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 11:00

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-5

**Laboratory ID Number:** BD09411

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09411	Alkalinity	mg CaCO3/L					241	51.2	45.0 to 55.0			0.414	10.0
BD09413	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.08	0.300	1.91	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD09411	Solids, Dissolved	mg/L	0.0000	25.0			500	50.0	40.0 to 60.0			0.803	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-1

**Location Code:** WMWGREAPFB  
**Collected:** 5/17/23 11:30  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09412

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	5/19/23 11:37	5/22/23 14:08		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/19/23 11:37	5/22/23 14:08		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	5/19/23 11:37	5/22/23 14:08		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	5/19/23 11:37	5/22/23 14:08		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/19/23 11:37	5/22/23 14:08		1.015	Not Detected	mg/L	0.021315	0.406	U	
* Molybdenum, Total	5/19/23 11:37	5/22/23 14:08		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 14:08		1	Not Detected	mg/L				
* Silicon, Total	5/19/23 11:37	5/22/23 14:08		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	5/19/23 11:37	5/22/23 14:08		1.015	Not Detected	mg/L	0.04060	0.406	U	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	5/19/23 11:37	5/19/23 19:26		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	5/19/23 11:37	5/19/23 19:26		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	5/19/23 11:37	5/19/23 19:26		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	5/19/23 11:37	5/19/23 19:26		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	5/19/23 11:37	5/19/23 19:26		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/19/23 11:37	5/19/23 19:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	5/19/23 11:37	5/19/23 19:26		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	5/19/23 11:37	5/19/23 19:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	5/19/23 11:37	5/19/23 19:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	5/19/23 11:37	5/19/23 19:26		1.015	0.000737	mg/L	0.000152	0.001015	J	
* Potassium, Total	5/19/23 11:37	5/19/23 19:26		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	5/19/23 11:37	5/19/23 19:26		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	5/19/23 11:37	5/19/23 19:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>								
* Mercury, Total by CVAA	5/19/23 18:40	5/19/23 23:18		1	Not Detected	mg/L	0.0003	0.0005	U	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>								
* Nitrogen, Nitrate/Nitrite	5/19/23 12:56	5/19/23 12:56		1	Not Detected	mg/L as N	0.20	0.3	U	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>								
* Solids, Dissolved	5/18/23 13:20	5/22/23 10:19		1	Not Detected	mg/L		25	U	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-1

**Location Code:** WMWGREAPFB  
**Collected:** 5/17/23 11:30  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09412

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 14:54	5/22/23 14:54		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 10:58	5/24/23 10:58		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 09:32	5/25/23 09:32		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 14:28	5/18/23 14:28		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/17/23 11:30

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD09412

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09413	Aluminum, Total	mg/L	0.000592	0.0198	0.100	0.106	0.110	0.105	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BD09413	Antimony, Total	mg/L	0.000506	0.00100	0.100	0.110	0.113	0.0980	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD09413	Arsenic, Total	mg/L	0.0000479	0.000200	0.100	1.17	1.21	0.103	0.0850 to 0.115	110	70.0 to 130	3.36	20.0
BD09413	Barium, Total	mg/L	0.0000335	0.00100	0.100	0.393	0.413	0.108	0.0850 to 0.115	102	70.0 to 130	4.96	20.0
BD09413	Beryllium, Total	mg/L	0.0000362	0.000880	0.100	0.109	0.110	0.0979	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BD09413	Boron, Total	mg/L	-0.000214	0.0650	1.00	3.51	3.53	1.04	0.850 to 1.15	103	70.0 to 130	0.568	20.0
BD09413	Cadmium, Total	mg/L	0.0000112	0.000147	0.100	0.105	0.108	0.105	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BD09413	Calcium, Total	mg/L	0.00227	0.152	5.00	140	140	5.20	4.25 to 5.75	-140	70.0 to 130	0.00	20.0
BD09413	Chloride	mg/L	0.0255	1.00	10.0	19.7	19.7	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0
BD09413	Chromium, Total	mg/L	0.0000119	0.000440	0.100	0.102	0.105	0.103	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD09413	Cobalt, Total	mg/L	-0.0000426	0.000147	0.100	0.111	0.115	0.106	0.0850 to 0.115	103	70.0 to 130	3.54	20.0
BD09413	Fluoride	mg/L	0.0418	0.125	2.50	3.15	3.23	2.60	2.25 to 2.75	105	80.0 to 120	2.51	20.0
BD09413	Iron, Total	mg/L	0.00162	0.0176	0.2	39.4	39.1	0.204	0.170 to 0.230	450	70.0 to 130	0.764	20.0
BD09413	Lead, Total	mg/L	0.0000146	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09413	Lithium, Total	mg/L	0.000312	0.0154	0.200	0.898	0.925	0.199	0.170 to 0.230	95.0	70.0 to 130	2.96	20.0
BD09413	Magnesium, Total	mg/L	0.00480	0.0462	5.00	35.6	36.4	5.07	4.25 to 5.75	88.0	70.0 to 130	2.22	20.0
BD09413	Manganese, Total	mg/L	0.000115	0.00033	0.100	2.15	2.12	0.105	0.0850 to 0.115	110	70.0 to 130	1.41	20.0
BD09413	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00391	0.00392	0.00398	0.00340 to 0.00460	97.8	70.0 to 130	0.255	20.0
BD09413	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.245	0.251	0.200	0.170 to 0.230	97.6	70.0 to 130	2.42	20.0
BD09413	Potassium, Total	mg/L	0.0111	0.367	10.0	24.3	25.3	10.3	8.50 to 11.5	103	70.0 to 130	4.03	20.0
BD09413	Selenium, Total	mg/L	0.0000945	0.00100	0.100	0.102	0.104	0.100	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD09413	Silicon, Total	mg/L	-0.000531	0.0440	1.00	10.3	10.3	1.02	0.850 to 1.15	94.0	70.0 to 130	0.00	20.0
BD09413	Sodium, Total	mg/L	0.00301	0.0880	5.00	49.8	48.8	4.95	4.25 to 5.75	48.0	70.0 to 130	2.03	20.0
BD09413	Sulfate	mg/L	-0.146	2.0	100	208	218	19.6	18.0 to 22.0	86.0	80.0 to 120	4.69	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/17/23 11:30

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD09412

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD09413	Thallium, Total	mg/L	-0.0000382	0.000147	0.100	0.108	0.107	0.104	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD09412	Total Organic Carbon	mg/L	0.0680	1.00	10.0	10.1	10.4	9.88		101	80.0 to 120	2.93	20.0

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**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/17/23 11:30

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD09412

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09413	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.08	0.300	1.91	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD09411	Solids, Dissolved	mg/L	0.0000	25.0			500	50.0	40.0 to 60.0			0.803	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-17

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 13:30  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09413

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	5/19/23 11:37	5/22/23 14:11		1.015	2.48	mg/L	0.030000	0.1015		
* Calcium, Total	5/19/23 11:37	5/24/23 12:12		10.15	147	mg/L	0.70035	4.06	RA	
* Iron, Total	5/19/23 11:37	5/24/23 12:56		101.5	38.5	mg/L	0.8120	4.06	RA	
* Lithium, Total	5/19/23 11:37	5/22/23 14:11		1.015	0.708	mg/L	0.007105	0.01999956		
* Magnesium, Total	5/19/23 11:37	5/22/23 14:11		1.015	31.2	mg/L	0.021315	0.406		
* Molybdenum, Total	5/19/23 11:37	5/22/23 14:11		1.015	0.0497	mg/L	0.005075	0.01015		
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 14:11		1	20.0	mg/L				
* Silicon, Total	5/19/23 11:37	5/22/23 14:11		1.015	9.36	mg/L	0.02030	0.25375		
* Sodium, Total	5/19/23 11:37	5/24/23 12:12		10.15	47.4	mg/L	0.4060	4.06	RA	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	5/19/23 08:47	5/19/23 11:14		1.015	2.42	mg/L	0.030000	0.1015		
* Calcium, Dissolved	5/19/23 08:47	5/19/23 14:32		10.15	156	mg/L	0.70035	4.06		
* Iron, Dissolved	5/19/23 08:47	5/19/23 16:42		101.5	38.4	mg/L	0.8120	4.06		
* Lithium, Dissolved	5/19/23 08:47	5/19/23 11:14		1.015	0.707	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	5/19/23 08:47	5/19/23 11:14		1.015	30.6	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	5/19/23 08:47	5/19/23 11:14		1.015	0.0497	mg/L	0.005075	0.01015		
* Silica, Dissolved (calc.)	5/19/23 08:47	5/19/23 11:14		1	19.7	mg/L				
* Silicon, Dissolved	5/19/23 08:47	5/19/23 11:14		1.015	9.19	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/19/23 08:47	5/19/23 14:32		10.15	50.0	mg/L	0.4060	4.06		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	5/19/23 11:37	5/19/23 19:30		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Arsenic, Total	5/19/23 11:37	5/19/23 19:30		1.015	1.06	mg/L	0.000112	0.000203	RA	
* Aluminum, Total	5/19/23 11:37	5/19/23 19:30		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Barium, Total	5/19/23 11:37	5/19/23 19:30		1.015	0.291	mg/L	0.000508	0.001015		
* Beryllium, Total	5/19/23 11:37	5/19/23 19:30		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/19/23 11:37	5/19/23 19:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	5/19/23 11:37	5/19/23 19:30		1.015	0.000300	mg/L	0.000203	0.001015	J	
* Cobalt, Total	5/19/23 11:37	5/19/23 19:30		1.015	0.00834	mg/L	0.000068	0.000203		
* Lead, Total	5/19/23 11:37	5/19/23 19:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	5/19/23 11:37	5/19/23 20:30		5.075	2.04	mg/L	0.000761	0.005075		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-17

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 13:30  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09413

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/19/23 11:37	5/19/23 19:30		1.015	14.0	mg/L	0.169505	0.5075	
* Selenium, Total	5/19/23 11:37	5/19/23 19:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/19/23 11:37	5/19/23 19:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/19/23 08:47	5/19/23 12:09		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/19/23 08:47	5/19/23 12:09		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/19/23 08:47	5/22/23 09:59		1.015	1.02	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/19/23 08:47	5/19/23 12:09		1.015	0.297	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/19/23 08:47	5/19/23 12:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/19/23 08:47	5/19/23 12:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/19/23 08:47	5/19/23 12:09		1.015	0.000219	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/19/23 08:47	5/19/23 12:09		1.015	0.00856	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/19/23 08:47	5/19/23 12:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/19/23 08:47	5/19/23 14:03		5.075	1.92	mg/L	0.000761	0.005075	
* Potassium, Dissolved	5/19/23 08:47	5/19/23 12:09		1.015	14.2	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/19/23 08:47	5/19/23 12:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/19/23 08:47	5/19/23 12:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	5/19/23 18:40	5/19/23 23:22		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	5/19/23 12:57	5/19/23 12:57		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/30/23 11:06	5/30/23 12:19		1	455	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/19/23 10:40	5/23/23 10:40		1	648	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/30/23 11:06	5/30/23 12:19		1	454	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/30/23 11:06	5/30/23 12:19		1	0.978	mg CaCO3/L		0.5	A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 14:39	5/22/23 14:39		1	1.40	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-17

**Location Code:** WMWGREAP

**Collected:** 5/17/23 13:30

**Customer ID:**

**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09413

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 10:59	5/24/23 10:59		1	10.0	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 09:34	5/25/23 09:34		1	0.535	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 14:51	5/18/23 14:51		5	122	mg/L	3.0	10	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/17/23 13:26	5/17/23 13:26			1114.52	uS/cm			FA
pH	5/17/23 13:26	5/17/23 13:26			6.71	SU			FA
Temperature	5/17/23 13:26	5/17/23 13:26			20.68	C			FA
Turbidity	5/17/23 13:26	5/17/23 13:26			2.2	NTU			FA
Sulfide	5/17/23 13:26	5/17/23 13:26			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 13:30

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-17

**Laboratory ID Number:** BD09413

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD09414	Aluminum, Dissolved	mg/L	0.000272	0.0198	0.100	0.0961	0.0987	0.102	0.0850 to 0.115	96.1	70.0 to 130	2.67	20.0
BD09413	Aluminum, Total	mg/L	0.000592	0.0198	0.100	0.106	0.110	0.105	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BD09414	Antimony, Dissolved	mg/L	0.000372	0.00100	0.100	0.100	0.102	0.0957	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD09413	Antimony, Total	mg/L	0.000506	0.00100	0.100	0.110	0.113	0.0980	0.0850 to 0.115	110	70.0 to 130	2.69	20.0
BD09414	Arsenic, Dissolved	mg/L	0.0000295	0.000200	0.100	1.12	1.12	0.102	0.0850 to 0.115	120	70.0 to 130	0.00	20.0
BD09413	Arsenic, Total	mg/L	0.0000479	0.000200	0.100	1.17	1.21	0.103	0.0850 to 0.115	110	70.0 to 130	3.36	20.0
BD09414	Barium, Dissolved	mg/L	0.0000666	0.00100	0.100	0.391	0.392	0.107	0.0850 to 0.115	104	70.0 to 130	0.255	20.0
BD09413	Barium, Total	mg/L	0.0000335	0.00100	0.100	0.393	0.413	0.108	0.0850 to 0.115	102	70.0 to 130	4.96	20.0
BD09414	Beryllium, Dissolved	mg/L	0.0000326	0.000880	0.100	0.0916	0.0943	0.101	0.0850 to 0.115	91.6	70.0 to 130	2.90	20.0
BD09413	Beryllium, Total	mg/L	0.0000362	0.000880	0.100	0.109	0.110	0.0979	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BD09414	Boron, Dissolved	mg/L	-0.00223	0.0650	1.00	3.44	3.45	1.01	0.850 to 1.15	102	70.0 to 130	0.290	20.0
BD09413	Boron, Total	mg/L	-0.000214	0.0650	1.00	3.51	3.53	1.04	0.850 to 1.15	103	70.0 to 130	0.568	20.0
BD09414	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD09413	Cadmium, Total	mg/L	0.0000112	0.000147	0.100	0.105	0.108	0.105	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BD09414	Calcium, Dissolved	mg/L	-0.0003	0.152	5.00	145	149	5.10	4.25 to 5.75	60.0	70.0 to 130	2.72	20.0
BD09413	Calcium, Total	mg/L	0.00227	0.152	5.00	140	140	5.20	4.25 to 5.75	-140	70.0 to 130	0.00	20.0
BD09413	Chloride	mg/L	0.0255	1.00	10.0	19.7	19.7	9.96	9.00 to 11.0	97.0	80.0 to 120	0.00	20.0
BD09414	Chromium, Dissolved	mg/L	0.0000152	0.000440	0.100	0.0977	0.0997	0.103	0.0850 to 0.115	97.4	70.0 to 130	2.03	20.0
BD09413	Chromium, Total	mg/L	0.0000119	0.000440	0.100	0.102	0.105	0.103	0.0850 to 0.115	102	70.0 to 130	2.90	20.0
BD09414	Cobalt, Dissolved	mg/L	-0.0000463	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	98.6	70.0 to 130	1.85	20.0
BD09413	Cobalt, Total	mg/L	-0.0000426	0.000147	0.100	0.111	0.115	0.106	0.0850 to 0.115	103	70.0 to 130	3.54	20.0
BD09413	Fluoride	mg/L	0.0418	0.125	2.50	3.15	3.23	2.60	2.25 to 2.75	105	80.0 to 120	2.51	20.0
BD09414	Iron, Dissolved	mg/L	0.00336	0.0176	0.2	39.6	40.2	0.205	0.170 to 0.230	250	70.0 to 130	1.50	20.0
BD09413	Iron, Total	mg/L	0.00162	0.0176	0.2	39.4	39.1	0.204	0.170 to 0.230	450	70.0 to 130	0.764	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 13:30

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-17

**Laboratory ID Number:** BD09413

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09414	Lead, Dissolved	mg/L	0.000015	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09413	Lead, Total	mg/L	0.0000146	0.000147	0.100	0.107	0.106	0.103	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09414	Lithium, Dissolved	mg/L	0.000031	0.0154	0.200	0.905	0.907	0.199	0.170 to 0.230	98.5	70.0 to 130	0.221	20.0
BD09413	Lithium, Total	mg/L	0.000312	0.0154	0.200	0.898	0.925	0.199	0.170 to 0.230	95.0	70.0 to 130	2.96	20.0
BD09414	Magnesium, Dissolved	mg/L	0.00778	0.0462	5.00	34.7	35.2	4.97	4.25 to 5.75	92.0	70.0 to 130	1.43	20.0
BD09413	Magnesium, Total	mg/L	0.00480	0.0462	5.00	35.6	36.4	5.07	4.25 to 5.75	88.0	70.0 to 130	2.22	20.0
BD09414	Manganese, Dissolved	mg/L	0.000204	0.00033	0.100	2.05	2.08	0.104	0.0850 to 0.115	30.0	70.0 to 130	1.45	20.0
BD09413	Manganese, Total	mg/L	0.000115	0.00033	0.100	2.15	2.12	0.105	0.0850 to 0.115	110	70.0 to 130	1.41	20.0
BD09413	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.00391	0.00392	0.00398	0.00340 to 0.00460	97.8	70.0 to 130	0.255	20.0
BD09414	Molybdenum, Dissolved	mg/L	0.00256	0.0100	0.2	0.245	0.249	0.202	0.170 to 0.230	98.0	70.0 to 130	1.62	20.0
BD09413	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.245	0.251	0.200	0.170 to 0.230	97.6	70.0 to 130	2.42	20.0
BD09414	Potassium, Dissolved	mg/L	0.0100	0.367	10.0	22.8	23.4	10.0	8.50 to 11.5	89.0	70.0 to 130	2.60	20.0
BD09413	Potassium, Total	mg/L	0.0111	0.367	10.0	24.3	25.3	10.3	8.50 to 11.5	103	70.0 to 130	4.03	20.0
BD09414	Selenium, Dissolved	mg/L	0.0000983	0.00100	0.100	0.105	0.105	0.0994	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09413	Selenium, Total	mg/L	0.0000945	0.00100	0.100	0.102	0.104	0.100	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD09414	Silicon, Dissolved	mg/L	0.000205	0.0440	1.00	10.1	10.2	1.03	0.850 to 1.15	91.0	70.0 to 130	0.985	20.0
BD09413	Silicon, Total	mg/L	-0.000531	0.0440	1.00	10.3	10.3	1.02	0.850 to 1.15	94.0	70.0 to 130	0.00	20.0
BD09414	Sodium, Dissolved	mg/L	0.00326	0.0880	5.00	49.7	52.0	4.93	4.25 to 5.75	90.0	70.0 to 130	4.52	20.0
BD09413	Sodium, Total	mg/L	0.00301	0.0880	5.00	49.8	48.8	4.95	4.25 to 5.75	48.0	70.0 to 130	2.03	20.0
BD09413	Sulfate	mg/L	-0.146	2.0	100	208	218	19.6	18.0 to 22.0	86.0	80.0 to 120	4.69	20.0
BD09414	Thallium, Dissolved	mg/L	-0.0000344	0.000147	0.100	0.107	0.106	0.108	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09413	Thallium, Total	mg/L	-0.0000382	0.000147	0.100	0.108	0.107	0.104	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD09412	Total Organic Carbon	mg/L	0.0680	1.00	10.0	10.1	10.4	9.88		101	80.0 to 120	2.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 13:30

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-17

**Laboratory ID Number:** BD09413

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09415	Alkalinity	mg CaCO3/L					236	51.7	45.0 to 55.0			1.28	10.0
BD09413	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.08	0.300	1.91	1.80 to 2.20	104	90.0 to 110	0.00	15.0
BD09430	Solids, Dissolved	mg/L	1.00	25.0			262	55.0	40.0 to 60.0			1.54	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-17 Dup

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 13:30  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09414

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/19/23 11:37	5/22/23 14:27		1.015	2.45	mg/L	0.030000	0.1015	
* Calcium, Total	5/19/23 11:37	5/24/23 12:21		10.15	141	mg/L	0.70035	4.06	
* Iron, Total	5/19/23 11:37	5/24/23 13:06		101.5	39.0	mg/L	0.8120	4.06	
* Lithium, Total	5/19/23 11:37	5/22/23 14:27		1.015	0.690	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/19/23 11:37	5/22/23 14:27		1.015	30.2	mg/L	0.021315	0.406	
* Molybdenum, Total	5/19/23 11:37	5/22/23 14:27		1.015	0.0496	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 14:27		1	19.8	mg/L			
* Silicon, Total	5/19/23 11:37	5/22/23 14:27		1.015	9.23	mg/L	0.02030	0.25375	
* Sodium, Total	5/19/23 11:37	5/24/23 12:21		10.15	45.9	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>							
* Boron, Dissolved	5/19/23 08:47	5/19/23 11:17		1.015	2.42	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/19/23 08:47	5/19/23 14:35		10.15	142	mg/L	0.70035	4.06	RA
* Iron, Dissolved	5/19/23 08:47	5/19/23 16:45		101.5	39.1	mg/L	0.8120	4.06	RA
* Lithium, Dissolved	5/19/23 08:47	5/19/23 11:17		1.015	0.708	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/19/23 08:47	5/19/23 11:17		1.015	30.1	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/19/23 08:47	5/19/23 11:17		1.015	0.0489	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	5/19/23 08:47	5/19/23 11:17		1	19.7	mg/L			
* Silicon, Dissolved	5/19/23 08:47	5/19/23 11:17		1.015	9.19	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/19/23 08:47	5/19/23 14:35		10.15	45.2	mg/L	0.4060	4.06	RA
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/19/23 11:37	5/19/23 19:51		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	5/19/23 11:37	5/19/23 19:51		1.015	1.07	mg/L	0.000112	0.000203	
* Aluminum, Total	5/19/23 11:37	5/19/23 19:51		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	5/19/23 11:37	5/19/23 19:51		1.015	0.281	mg/L	0.000508	0.001015	
* Beryllium, Total	5/19/23 11:37	5/19/23 19:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/19/23 11:37	5/19/23 19:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/19/23 11:37	5/19/23 19:51		1.015	0.000271	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/19/23 11:37	5/19/23 19:51		1.015	0.00866	mg/L	0.000068	0.000203	
* Lead, Total	5/19/23 11:37	5/19/23 19:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/19/23 11:37	5/19/23 20:41		5.075	2.05	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-17 Dup

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 13:30  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09414

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/19/23 11:37	5/19/23 19:51		1.015	14.2	mg/L	0.169505	0.5075	
* Selenium, Total	5/19/23 11:37	5/19/23 19:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/19/23 11:37	5/19/23 19:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/19/23 08:47	5/19/23 12:12		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/19/23 08:47	5/19/23 12:12		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/19/23 08:47	5/22/23 10:03		1.015	1.00	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/19/23 08:47	5/19/23 12:12		1.015	0.287	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/19/23 08:47	5/19/23 12:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/19/23 08:47	5/19/23 12:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/19/23 08:47	5/19/23 12:12		1.015	0.000335	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/19/23 08:47	5/19/23 12:12		1.015	0.00842	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/19/23 08:47	5/19/23 12:12		1.015	0.000127	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	5/19/23 08:47	5/19/23 14:06		5.075	2.02	mg/L	0.000761	0.005075	RA
* Potassium, Dissolved	5/19/23 08:47	5/19/23 12:12		1.015	13.9	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/19/23 08:47	5/19/23 12:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/19/23 08:47	5/19/23 12:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	5/19/23 18:40	5/19/23 23:42		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	5/19/23 13:07	5/19/23 13:07		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/30/23 11:06	5/30/23 12:19		1	453	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/19/23 10:40	5/23/23 10:40		1	642	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/30/23 11:06	5/30/23 12:19		1	453	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	5/30/23 11:06	5/30/23 12:19		1	Not Detected	mg CaCO3/L		0.5	A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 16:26	5/22/23 16:26		1	1.58	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-17 Dup

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 13:30  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09414

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 11:23	5/24/23 11:23		1	9.98	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 09:45	5/25/23 09:45		1	0.588	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 15:02	5/18/23 15:02		4	109	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/17/23 13:26	5/17/23 13:26			1114.52	uS/cm			FA
pH	5/17/23 13:26	5/17/23 13:26			6.71	SU			FA
Temperature	5/17/23 13:26	5/17/23 13:26			20.68	C			FA
Turbidity	5/17/23 13:26	5/17/23 13:26			2.2	NTU			FA
Sulfide	5/17/23 13:26	5/17/23 13:26			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 13:30

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-17 Dup

**Laboratory ID Number:** BD09414

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD09414	Aluminum, Dissolved	mg/L	0.000272	0.0198	0.100	0.0961	0.0987	0.102	0.0850 to 0.115	96.1	70.0 to 130	2.67	20.0
BD09415	Aluminum, Total	mg/L	0.000592	0.0198	0.100	0.109	0.107	0.105	0.0850 to 0.115	109	70.0 to 130	1.85	20.0
BD09414	Antimony, Dissolved	mg/L	0.000372	0.00100	0.100	0.100	0.102	0.0957	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD09415	Antimony, Total	mg/L	0.000506	0.00100	0.100	0.104	0.105	0.0980	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD09414	Arsenic, Dissolved	mg/L	0.0000295	0.000200	0.100	1.12	1.12	0.102	0.0850 to 0.115	120	70.0 to 130	0.00	20.0
BD09415	Arsenic, Total	mg/L	0.0000479	0.000200	0.100	0.114	0.115	0.103	0.0850 to 0.115	102	70.0 to 130	0.873	20.0
BD09414	Barium, Dissolved	mg/L	0.0000666	0.00100	0.100	0.391	0.392	0.107	0.0850 to 0.115	104	70.0 to 130	0.255	20.0
BD09415	Barium, Total	mg/L	0.0000335	0.00100	0.100	0.250	0.255	0.108	0.0850 to 0.115	97.0	70.0 to 130	1.98	20.0
BD09414	Beryllium, Dissolved	mg/L	0.0000326	0.000880	0.100	0.0916	0.0943	0.101	0.0850 to 0.115	91.6	70.0 to 130	2.90	20.0
BD09415	Beryllium, Total	mg/L	0.0000362	0.000880	0.100	0.105	0.104	0.0979	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD09414	Boron, Dissolved	mg/L	-0.00223	0.0650	1.00	3.44	3.45	1.01	0.850 to 1.15	102	70.0 to 130	0.290	20.0
BD09415	Boron, Total	mg/L	-0.000214	0.0650	1.00	1.09	1.09	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09414	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.101	0.103	0.104	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD09415	Cadmium, Total	mg/L	0.0000112	0.000147	0.100	0.0997	0.101	0.105	0.0850 to 0.115	99.7	70.0 to 130	1.30	20.0
BD09414	Calcium, Dissolved	mg/L	-0.0003	0.152	5.00	145	149	5.10	4.25 to 5.75	60.0	70.0 to 130	2.72	20.0
BD09415	Calcium, Total	mg/L	0.00227	0.152	5.00	56.5	59.4	5.20	4.25 to 5.75	-6.00	70.0 to 130	5.00	20.0
BD09415	Chloride	mg/L	0.0718	1.00	40.0	59.2	61.5	9.95	9.00 to 11.0	94.0	80.0 to 120	3.81	20.0
BD09414	Chromium, Dissolved	mg/L	0.0000152	0.000440	0.100	0.0977	0.0997	0.103	0.0850 to 0.115	97.4	70.0 to 130	2.03	20.0
BD09415	Chromium, Total	mg/L	0.0000119	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD09414	Cobalt, Dissolved	mg/L	-0.0000463	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	98.6	70.0 to 130	1.85	20.0
BD09415	Cobalt, Total	mg/L	-0.0000426	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09415	Fluoride	mg/L	0.0442	0.125	2.50	2.74	2.82	2.56	2.25 to 2.75	104	80.0 to 120	2.88	20.0
BD09414	Iron, Dissolved	mg/L	0.00336	0.0176	0.2	39.6	40.2	0.205	0.170 to 0.230	250	70.0 to 130	1.50	20.0
BD09415	Iron, Total	mg/L	0.00162	0.0176	0.2	56.6	55.9	0.204	0.170 to 0.230	-350	70.0 to 130	1.24	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 13:30

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-17 Dup

**Laboratory ID Number:** BD09414

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09414	Lead, Dissolved	mg/L	0.000015	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09415	Lead, Total	mg/L	0.0000146	0.000147	0.100	0.104	0.106	0.103	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD09414	Lithium, Dissolved	mg/L	0.000031	0.0154	0.200	0.905	0.907	0.199	0.170 to 0.230	98.5	70.0 to 130	0.221	20.0
BD09415	Lithium, Total	mg/L	0.000312	0.0154	0.200	0.202	0.200	0.199	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD09414	Magnesium, Dissolved	mg/L	0.00778	0.0462	5.00	34.7	35.2	4.97	4.25 to 5.75	92.0	70.0 to 130	1.43	20.0
BD09415	Magnesium, Total	mg/L	0.00480	0.0462	5.00	9.19	9.11	5.07	4.25 to 5.75	98.2	70.0 to 130	0.874	20.0
BD09414	Manganese, Dissolved	mg/L	0.000204	0.00033	0.100	2.05	2.08	0.104	0.0850 to 0.115	30.0	70.0 to 130	1.45	20.0
BD09415	Manganese, Total	mg/L	0.000115	0.00033	0.100	0.430	0.431	0.105	0.0850 to 0.115	94.0	70.0 to 130	0.232	20.0
BD09415	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.0038	0.00378	0.00398	0.00340 to 0.00460	95.0	70.0 to 130	0.528	20.0
BD09414	Molybdenum, Dissolved	mg/L	0.00256	0.0100	0.2	0.245	0.249	0.202	0.170 to 0.230	98.0	70.0 to 130	1.62	20.0
BD09415	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.201	0.200	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD09414	Potassium, Dissolved	mg/L	0.0100	0.367	10.0	22.8	23.4	10.0	8.50 to 11.5	89.0	70.0 to 130	2.60	20.0
BD09415	Potassium, Total	mg/L	0.0111	0.367	10.0	10.9	10.7	10.3	8.50 to 11.5	101	70.0 to 130	1.85	20.0
BD09414	Selenium, Dissolved	mg/L	0.0000983	0.00100	0.100	0.105	0.105	0.0994	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09415	Selenium, Total	mg/L	0.0000945	0.00100	0.100	0.0971	0.101	0.100	0.0850 to 0.115	96.5	70.0 to 130	3.94	20.0
BD09414	Silicon, Dissolved	mg/L	0.000205	0.0440	1.00	10.1	10.2	1.03	0.850 to 1.15	91.0	70.0 to 130	0.985	20.0
BD09415	Silicon, Total	mg/L	-0.000531	0.0440	1.00	5.48	5.47	1.02	0.850 to 1.15	100	70.0 to 130	0.183	20.0
BD09414	Sodium, Dissolved	mg/L	0.00326	0.0880	5.00	49.7	52.0	4.93	4.25 to 5.75	90.0	70.0 to 130	4.52	20.0
BD09415	Sodium, Total	mg/L	0.00301	0.0880	5.00	35.1	34.8	4.95	4.25 to 5.75	92.0	70.0 to 130	0.858	20.0
BD09415	Sulfate	mg/L	-0.107	2.0	20.0	36.5	35.6	19.6	18.0 to 22.0	84.5	80.0 to 120	2.50	20.0
BD09414	Thallium, Dissolved	mg/L	-0.0000344	0.000147	0.100	0.107	0.106	0.108	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09415	Thallium, Total	mg/L	-0.0000382	0.000147	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD09414	Total Organic Carbon	mg/L	0.0643	1.00	10.0	11.7	10.4	9.76		101	80.0 to 120	11.8	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 13:30

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-17 Dup

**Laboratory ID Number:** BD09414

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD09415	Alkalinity	mg CaCO3/L					236	51.7	45.0 to 55.0			1.28	10.0
BD09415	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.95	0.241	1.82	1.80 to 2.20	84.2	90.0 to 110	9.86	15.0
BD09430	Solids, Dissolved	mg/L	1.00	25.0			262	55.0	40.0 to 60.0			1.54	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-3

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 14:55  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09415

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/19/23 11:37	5/22/23 14:30		1.015	0.0456	mg/L	0.030000	0.1015	J
* Calcium, Total	5/19/23 11:37	5/24/23 12:31		101.5	56.8	mg/L	7.0035	40.6	RA
* Iron, Total	5/19/23 11:37	5/24/23 12:31		101.5	57.3	mg/L	0.8120	4.06	RA
* Lithium, Total	5/19/23 11:37	5/22/23 14:30		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/19/23 11:37	5/22/23 14:30		1.015	4.28	mg/L	0.021315	0.406	
* Molybdenum, Total	5/19/23 11:37	5/22/23 14:30		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 14:30		1	9.59	mg/L			
* Silicon, Total	5/19/23 11:37	5/22/23 14:30		1.015	4.48	mg/L	0.02030	0.25375	
* Sodium, Total	5/19/23 11:37	5/22/23 14:30		1.015	30.5	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>						
* Boron, Dissolved	5/19/23 08:47	5/19/23 11:33		1.015	0.0474	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/19/23 08:47	5/19/23 14:51		101.5	65.3	mg/L	7.0035	40.6	RA
* Iron, Dissolved	5/19/23 08:47	5/19/23 14:51		101.5	63.4	mg/L	0.8120	4.06	RA
* Lithium, Dissolved	5/19/23 08:47	5/19/23 11:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/19/23 08:47	5/19/23 11:33		1.015	4.18	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/19/23 08:47	5/19/23 11:33		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/19/23 08:47	5/19/23 11:33		1	9.72	mg/L			
* Silicon, Dissolved	5/19/23 08:47	5/19/23 11:33		1.015	4.54	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/19/23 08:47	5/19/23 11:33		1.015	30.1	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/19/23 11:37	5/19/23 19:55		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	5/19/23 11:37	5/19/23 19:55		1.015	0.0116	mg/L	0.000112	0.000203	
* Aluminum, Total	5/19/23 11:37	5/19/23 19:55		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	5/19/23 11:37	5/19/23 19:55		1.015	0.153	mg/L	0.000508	0.001015	
* Beryllium, Total	5/19/23 11:37	5/19/23 19:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/19/23 11:37	5/19/23 19:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/19/23 11:37	5/19/23 19:55		1.015	0.000301	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/19/23 11:37	5/19/23 19:55		1.015	0.000658	mg/L	0.000068	0.000203	
* Lead, Total	5/19/23 11:37	5/19/23 19:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/19/23 11:37	5/19/23 19:55		1.015	0.336	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-3

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 14:55  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09415

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/19/23 11:37	5/19/23 19:55		1.015	0.777	mg/L	0.169505	0.5075	
* Selenium, Total	5/19/23 11:37	5/19/23 19:55		1.015	0.000551	mg/L	0.000508	0.001015	J
* Thallium, Total	5/19/23 11:37	5/19/23 19:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/19/23 08:47	5/19/23 12:34		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/19/23 08:47	5/19/23 12:34		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/19/23 08:47	5/22/23 10:24		1.015	0.0114	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/19/23 08:47	5/19/23 12:34		1.015	0.154	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/19/23 08:47	5/19/23 12:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/19/23 08:47	5/19/23 12:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/19/23 08:47	5/19/23 12:34		1.015	0.000344	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/19/23 08:47	5/19/23 12:34		1.015	0.000697	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/19/23 08:47	5/19/23 12:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/19/23 08:47	5/19/23 12:34		1.015	0.329	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/19/23 08:47	5/19/23 12:34		1.015	0.774	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/19/23 08:47	5/19/23 12:34		1.015	0.000599	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	5/19/23 08:47	5/19/23 12:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	5/19/23 18:40	5/19/23 23:46		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	5/19/23 13:09	5/19/23 13:09		1	0.266	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/30/23 11:06	5/30/23 12:19		1	233	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/19/23 10:40	5/23/23 10:40		1	349	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/30/23 11:06	5/30/23 12:19		1	233	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/30/23 11:06	5/30/23 12:19		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 16:10	5/22/23 16:10		1	8.97	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-3

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 14:55  
**Customer ID:**  
**Submittal Date:** 5/18/23 10:52

**Laboratory ID Number:** BD09415

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 11:24	5/24/23 11:24		4	21.6	mg/L	2.00	4	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 09:46	5/25/23 09:46		1	0.147	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 15:03	5/18/23 15:03		1	19.6	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/17/23 14:51	5/17/23 14:51			613.65	uS/cm			FA
pH	5/17/23 14:51	5/17/23 14:51			5.94	SU			FA
Temperature	5/17/23 14:51	5/17/23 14:51			20.05	C			FA
Turbidity	5/17/23 14:51	5/17/23 14:51			1.08	NTU			FA
Sulfide	5/17/23 14:51	5/17/23 14:51			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 14:55

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-3

**Laboratory ID Number:** BD09415

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09415	Aluminum, Dissolved	mg/L	0.000272	0.0198	0.100	0.100	0.103	0.102	0.0850 to 0.115	100	70.0 to 130	2.96	20.0
BD09415	Aluminum, Total	mg/L	0.000592	0.0198	0.100	0.109	0.107	0.105	0.0850 to 0.115	109	70.0 to 130	1.85	20.0
BD09415	Antimony, Dissolved	mg/L	0.000372	0.00100	0.100	0.105	0.108	0.0957	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BD09415	Antimony, Total	mg/L	0.000506	0.00100	0.100	0.104	0.105	0.0980	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD09415	Arsenic, Dissolved	mg/L	0.0000295	0.000200	0.100	0.113	0.112	0.102	0.0850 to 0.115	102	70.0 to 130	0.889	20.0
BD09415	Arsenic, Total	mg/L	0.0000479	0.000200	0.100	0.114	0.115	0.103	0.0850 to 0.115	102	70.0 to 130	0.873	20.0
BD09415	Barium, Dissolved	mg/L	0.0000666	0.00100	0.100	0.261	0.266	0.107	0.0850 to 0.115	107	70.0 to 130	1.90	20.0
BD09415	Barium, Total	mg/L	0.0000335	0.00100	0.100	0.250	0.255	0.108	0.0850 to 0.115	97.0	70.0 to 130	1.98	20.0
BD09415	Beryllium, Dissolved	mg/L	0.0000326	0.000880	0.100	0.0933	0.0944	0.101	0.0850 to 0.115	93.3	70.0 to 130	1.17	20.0
BD09415	Beryllium, Total	mg/L	0.0000362	0.000880	0.100	0.105	0.104	0.0979	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD09415	Boron, Dissolved	mg/L	-0.00223	0.0650	1.00	1.09	1.08	1.01	0.850 to 1.15	104	70.0 to 130	0.922	20.0
BD09415	Boron, Total	mg/L	-0.000214	0.0650	1.00	1.09	1.09	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09415	Cadmium, Dissolved	mg/L	0.000	0.000147	0.100	0.102	0.104	0.104	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD09415	Cadmium, Total	mg/L	0.0000112	0.000147	0.100	0.0997	0.101	0.105	0.0850 to 0.115	99.7	70.0 to 130	1.30	20.0
BD09415	Calcium, Dissolved	mg/L	-0.0003	0.152	5.00	79.2	68.2	5.10	4.25 to 5.75	278	70.0 to 130	14.9	20.0
BD09415	Calcium, Total	mg/L	0.00227	0.152	5.00	56.5	59.4	5.20	4.25 to 5.75	-6.00	70.0 to 130	5.00	20.0
BD09415	Chloride	mg/L	0.0718	1.00	40.0	59.2	61.5	9.95	9.00 to 11.0	94.0	80.0 to 120	3.81	20.0
BD09415	Chromium, Dissolved	mg/L	0.0000152	0.000440	0.100	0.100	0.102	0.103	0.0850 to 0.115	99.7	70.0 to 130	1.98	20.0
BD09415	Chromium, Total	mg/L	0.0000119	0.000440	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD09415	Cobalt, Dissolved	mg/L	-0.0000463	0.000147	0.100	0.104	0.106	0.106	0.0850 to 0.115	103	70.0 to 130	1.90	20.0
BD09415	Cobalt, Total	mg/L	-0.0000426	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09415	Fluoride	mg/L	0.0442	0.125	2.50	2.74	2.82	2.56	2.25 to 2.75	104	80.0 to 120	2.88	20.0
BD09415	Iron, Dissolved	mg/L	0.00336	0.0176	0.2	74.4	63.5	0.205	0.170 to 0.230	5500	70.0 to 130	15.8	20.0
BD09415	Iron, Total	mg/L	0.00162	0.0176	0.2	56.6	55.9	0.204	0.170 to 0.230	-350	70.0 to 130	1.24	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 14:55

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-3

**Laboratory ID Number:** BD09415

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09415	Lead, Dissolved	mg/L	0.000015	0.000147	0.100	0.106	0.108	0.106	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BD09415	Lead, Total	mg/L	0.0000146	0.000147	0.100	0.104	0.106	0.103	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD09415	Lithium, Dissolved	mg/L	0.000031	0.0154	0.200	0.201	0.203	0.199	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BD09415	Lithium, Total	mg/L	0.000312	0.0154	0.200	0.202	0.200	0.199	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD09415	Magnesium, Dissolved	mg/L	0.00778	0.0462	5.00	8.97	9.16	4.97	4.25 to 5.75	95.8	70.0 to 130	2.10	20.0
BD09415	Magnesium, Total	mg/L	0.00480	0.0462	5.00	9.19	9.11	5.07	4.25 to 5.75	98.2	70.0 to 130	0.874	20.0
BD09415	Manganese, Dissolved	mg/L	0.000204	0.00033	0.100	0.423	0.432	0.104	0.0850 to 0.115	94.0	70.0 to 130	2.11	20.0
BD09415	Manganese, Total	mg/L	0.000115	0.00033	0.100	0.430	0.431	0.105	0.0850 to 0.115	94.0	70.0 to 130	0.232	20.0
BD09415	Mercury, Total by CVAA	mg/L	0.000	0.000500	0.004	0.0038	0.00378	0.00398	0.00340 to 0.00460	95.0	70.0 to 130	0.528	20.0
BD09415	Molybdenum, Dissolved	mg/L	0.00256	0.0100	0.2	0.197	0.203	0.202	0.170 to 0.230	98.5	70.0 to 130	3.00	20.0
BD09415	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.201	0.200	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD09415	Potassium, Dissolved	mg/L	0.0100	0.367	10.0	10.5	10.7	10.0	8.50 to 11.5	97.3	70.0 to 130	1.89	20.0
BD09415	Potassium, Total	mg/L	0.0111	0.367	10.0	10.9	10.7	10.3	8.50 to 11.5	101	70.0 to 130	1.85	20.0
BD09415	Selenium, Dissolved	mg/L	0.0000983	0.00100	0.100	0.103	0.105	0.0994	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BD09415	Selenium, Total	mg/L	0.0000945	0.00100	0.100	0.0971	0.101	0.100	0.0850 to 0.115	96.5	70.0 to 130	3.94	20.0
BD09415	Silicon, Dissolved	mg/L	0.000205	0.0440	1.00	5.53	5.57	1.03	0.850 to 1.15	99.0	70.0 to 130	0.721	20.0
BD09415	Silicon, Total	mg/L	-0.000531	0.0440	1.00	5.48	5.47	1.02	0.850 to 1.15	100	70.0 to 130	0.183	20.0
BD09415	Sodium, Dissolved	mg/L	0.00326	0.0880	5.00	35.3	35.1	4.93	4.25 to 5.75	104	70.0 to 130	0.568	20.0
BD09415	Sodium, Total	mg/L	0.00301	0.0880	5.00	35.1	34.8	4.95	4.25 to 5.75	92.0	70.0 to 130	0.858	20.0
BD09415	Sulfate	mg/L	-0.107	2.0	20.0	36.5	35.6	19.6	18.0 to 22.0	84.5	80.0 to 120	2.50	20.0
BD09415	Thallium, Dissolved	mg/L	-0.0000344	0.000147	0.100	0.106	0.109	0.108	0.0850 to 0.115	106	70.0 to 130	2.79	20.0
BD09415	Thallium, Total	mg/L	-0.0000382	0.000147	0.100	0.103	0.103	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD09414	Total Organic Carbon	mg/L	0.0643	1.00	10.0	11.7	10.4	9.76		101	80.0 to 120	11.8	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 14:55

**Customer ID:**

**Delivery Date:** 5/18/23 10:52

**Description:** Greene County Ash Pond - MW-3

**Laboratory ID Number:** BD09415

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD09415	Alkalinity	mg CaCO3/L					236	51.7	45.0 to 55.0			1.28	10.0
BD09415	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.95	0.241	1.82	1.80 to 2.20	84.2	90.0 to 110	9.86	15.0
BD09430	Solids, Dissolved	mg/L	1.00	25.0			262	55.0	40.0 to 60.0			1.54	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-36H

**Location Code:** WMWGREAP  
**Collected:** 5/22/23 12:33  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09710

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/25/23 14:07	5/26/23 12:52		1.015	0.143	mg/L	0.030000	0.1015	
* Calcium, Total	5/25/23 14:07	5/26/23 12:52		1.015	0.908	mg/L	0.070035	0.406	
* Iron, Total	5/25/23 14:07	5/26/23 12:52		1.015	0.385	mg/L	0.008120	0.0406	
* Lithium, Total	5/25/23 14:07	5/26/23 12:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/25/23 14:07	5/26/23 12:52		1.015	0.112	mg/L	0.021315	0.406	J
* Molybdenum, Total	5/25/23 14:07	5/26/23 12:52		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 12:52		1	14.1	mg/L			
* Silicon, Total	5/25/23 14:07	5/26/23 12:52		1.015	6.59	mg/L	0.02030	0.25375	
* Sodium, Total	5/25/23 14:07	5/31/23 15:22		10.15	75.9	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/25/23 13:08	5/26/23 14:58		1.015	0.142	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/25/23 13:08	5/26/23 14:58		1.015	0.864	mg/L	0.070035	0.406	
* Iron, Dissolved	5/25/23 13:08	5/26/23 14:58		1.015	0.0133	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	5/25/23 13:08	5/26/23 14:58		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/25/23 13:08	5/26/23 14:58		1.015	0.0885	mg/L	0.021315	0.406	J
* Molybdenum, Dissolved	5/25/23 13:08	5/26/23 14:58		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/25/23 13:08	5/26/23 14:58		1	12.8	mg/L			
* Silicon, Dissolved	5/25/23 13:08	5/26/23 14:58		1.015	5.96	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/25/23 13:08	5/31/23 16:03		10.15	70.4	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/25/23 14:07	5/30/23 13:34		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	5/25/23 14:07	5/30/23 13:34		1.015	0.00211	mg/L	0.000112	0.000203	
* Aluminum, Total	5/25/23 14:07	5/30/23 13:34		1.015	0.292	mg/L	0.009135	0.05075	
* Barium, Total	5/25/23 14:07	5/30/23 13:34		1.015	0.00270	mg/L	0.000508	0.001015	
* Beryllium, Total	5/25/23 14:07	5/30/23 13:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/25/23 14:07	5/30/23 13:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/25/23 14:07	5/30/23 13:34		1.015	0.00101	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/25/23 14:07	5/30/23 13:34		1.015	0.000322	mg/L	0.000068	0.000203	
* Lead, Total	5/25/23 14:07	5/30/23 13:34		1.015	0.000346	mg/L	0.000068	0.000203	
* Manganese, Total	5/25/23 14:07	5/30/23 13:34		1.015	0.00363	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-36H

**Location Code:** WMWGREAP

**Collected:** 5/22/23 12:33

**Customer ID:**

**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09710

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 13:34		1.015	0.545	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 13:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/25/23 14:07	5/30/23 13:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 13:08	5/30/23 09:27		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 13:08	5/30/23 09:27		1.015	0.0187	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	5/25/23 13:08	5/30/23 09:27		1.015	0.00189	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/25/23 13:08	5/30/23 09:27		1.015	0.00111	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 13:08	5/30/23 09:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 13:08	5/30/23 09:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 13:08	5/30/23 09:27		1.015	0.000258	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/25/23 13:08	5/30/23 09:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/25/23 13:08	5/30/23 09:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/25/23 13:08	5/30/23 09:27		1.015	0.00108	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/25/23 13:08	5/30/23 09:27		1.015	0.525	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 13:08	5/30/23 09:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/25/23 13:08	5/30/23 09:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/25/23 23:49		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 09:40	5/25/23 09:40		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/2/23 10:30	6/2/23 13:48		1	130	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:15	5/30/23 10:15		1	167	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	129	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	1.33	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 14:03	5/25/23 14:03		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-36H

**Location Code:** WMWGREAP

**Collected:** 5/22/23 12:33

**Customer ID:**

**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09710

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 15:17	5/24/23 15:17		1	2.34	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 11:05	5/25/23 11:05		1	0.356	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 15:37	6/6/23 15:37		1	10.9	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/22/23 12:30	5/22/23 12:30			253.40	uS/cm			FA
pH	5/22/23 12:30	5/22/23 12:30			7.61	SU			FA
Temperature	5/22/23 12:30	5/22/23 12:30			22.33	C			FA
Turbidity	5/22/23 12:30	5/22/23 12:30			9.96	NTU			FA
Sulfide	5/22/23 12:30	5/22/23 12:30			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 12:33

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-36H

**Laboratory ID Number:** BD09710

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD09719	Aluminum, Dissolved	mg/L	0.000260	0.0198	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD09719	Aluminum, Total	mg/L	0.00158	0.0198	0.100	0.113	0.112	0.107	0.0850 to 0.115	113	70.0 to 130	0.889	20.0
BD09719	Antimony, Dissolved	mg/L	0.000333	0.00100	0.100	0.0958	0.0932	0.0929	0.0850 to 0.115	95.8	70.0 to 130	2.75	20.0
BD09719	Antimony, Total	mg/L	0.000357	0.00100	0.100	0.109	0.110	0.109	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BD09719	Arsenic, Dissolved	mg/L	0.0000224	0.000200	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09719	Arsenic, Total	mg/L	0.0000110	0.000200	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD09719	Barium, Dissolved	mg/L	0.0000168	0.00100	0.100	0.135	0.131	0.0992	0.0850 to 0.115	103	70.0 to 130	3.01	20.0
BD09719	Barium, Total	mg/L	0.0000264	0.00100	0.100	0.146	0.148	0.111	0.0850 to 0.115	110	70.0 to 130	1.36	20.0
BD09719	Beryllium, Dissolved	mg/L	0.0000442	0.000880	0.100	0.116	0.0983	0.102	0.0850 to 0.115	116	70.0 to 130	16.5	20.0
BD09719	Beryllium, Total	mg/L	0.0000350	0.000880	0.100	0.0996	0.0959	0.0929	0.0850 to 0.115	99.6	70.0 to 130	3.79	20.0
BD09719	Boron, Dissolved	mg/L	0.00033	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09719	Boron, Total	mg/L	0.000873	0.0650	1.00	1.05	1.05	1.05	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09719	Cadmium, Dissolved	mg/L	0.0000146	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09719	Cadmium, Total	mg/L	-0.0000005	0.000147	0.100	0.111	0.108	0.111	0.0850 to 0.115	111	70.0 to 130	2.74	20.0
BD09719	Calcium, Dissolved	mg/L	-0.000632	0.152	5.00	12.2	12.3	4.84	4.25 to 5.75	98.2	70.0 to 130	0.816	20.0
BD09719	Calcium, Total	mg/L	0.0167	0.152	5.00	12.1	11.8	4.99	4.25 to 5.75	107	70.0 to 130	2.51	20.0
BD09719	Chloride	mg/L	0.0154	1.00	10.0	17.3	17.3	9.82	9.00 to 11.0	98.6	80.0 to 120	0.00	20.0
BD09719	Chromium, Dissolved	mg/L	-0.000038	0.000440	0.100	0.103	0.0995	0.0996	0.0850 to 0.115	103	70.0 to 130	3.46	20.0
BD09719	Chromium, Total	mg/L	-0.0000577	0.000440	0.100	0.103	0.101	0.101	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD09719	Cobalt, Dissolved	mg/L	-0.000007	0.000147	0.100	0.0999	0.0977	0.0971	0.0850 to 0.115	99.3	70.0 to 130	2.23	20.0
BD09719	Cobalt, Total	mg/L	-0.0000174	0.000147	0.100	0.101	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD09719	Fluoride	mg/L	0.043	0.125	2.50	2.55	2.58	2.57	2.25 to 2.75	102	80.0 to 120	1.17	20.0
BD09719	Iron, Dissolved	mg/L	0.00174	0.0176	0.2	0.215	0.216	0.205	0.170 to 0.230	101	70.0 to 130	0.464	20.0
BD09719	Iron, Total	mg/L	0.00582	0.0176	0.2	0.220	0.220	0.211	0.170 to 0.230	101	70.0 to 130	0.00	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 12:33

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-36H

**Laboratory ID Number:** BD09710

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09719	Lead, Dissolved	mg/L	0.0000091	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BD09719	Lithium, Dissolved	mg/L	0.000878	0.0154	0.200	0.199	0.199	0.200	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD09719	Lithium, Total	mg/L	-0.00006	0.0154	0.200	0.200	0.206	0.197	0.170 to 0.230	100	70.0 to 130	2.96	20.0
BD09719	Magnesium, Dissolved	mg/L	0.00181	0.0462	5.00	6.33	6.30	4.89	4.25 to 5.75	98.4	70.0 to 130	0.475	20.0
BD09719	Magnesium, Total	mg/L	0.00974	0.0462	5.00	6.40	6.37	4.98	4.25 to 5.75	101	70.0 to 130	0.470	20.0
BD09719	Manganese, Dissolved	mg/L	-0.0000486	0.00033	0.100	0.115	0.112	0.104	0.0850 to 0.115	107	70.0 to 130	2.64	20.0
BD09719	Manganese, Total	mg/L	0.0000290	0.00033	0.100	0.116	0.116	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09719	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00355	0.00347	0.00387	0.00340 to 0.00460	88.8	70.0 to 130	2.28	20.0
BD09719	Molybdenum, Dissolved	mg/L	0.00195	0.0100	0.2	0.201	0.202	0.200	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09719	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.203	0.200	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0
BD09719	Potassium, Dissolved	mg/L	0.00726	0.367	10.0	11.6	11.3	10.3	8.50 to 11.5	104	70.0 to 130	2.62	20.0
BD09719	Potassium, Total	mg/L	0.0166	0.367	10.0	11.4	11.5	10.3	8.50 to 11.5	102	70.0 to 130	0.873	20.0
BD09719	Selenium, Dissolved	mg/L	0.000110	0.00100	0.100	0.103	0.105	0.108	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD09719	Silicon, Dissolved	mg/L	0.00119	0.0440	1.00	5.62	5.63	1.02	0.850 to 1.15	101	70.0 to 130	0.178	20.0
BD09719	Silicon, Total	mg/L	0.00262	0.0440	1.00	5.64	5.63	1.03	0.850 to 1.15	106	70.0 to 130	0.177	20.0
BD09719	Sodium, Dissolved	mg/L	-0.00593	0.0880	5.00	11.1	11.0	4.91	4.25 to 5.75	96.4	70.0 to 130	0.905	20.0
BD09719	Sodium, Total	mg/L	-0.000349	0.0880	5.00	11.3	11.5	4.92	4.25 to 5.75	100	70.0 to 130	1.75	20.0
BD09719	Sulfate	mg/L	-0.0419	2.0	20.0	22.4	22.4	19.1	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BD09719	Thallium, Dissolved	mg/L	-0.000001	0.000147	0.100	0.105	0.107	0.109	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD09719	Thallium, Total	mg/L	-0.0000082	0.000147	0.100	0.114	0.113	0.110	0.0850 to 0.115	114	70.0 to 130	0.881	20.0
BD09719	Total Organic Carbon	mg/L	0.0746	1.00	10.0	9.45	9.56	10.1		94.5	80.0 to 120	1.16	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 12:33

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-36H

**Laboratory ID Number:** BD09710

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09715	Alkalinity	mg CaCO3/L					202	50.2	45.0 to 55.0			2.51	10.0
BD09719	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.69	0.624	1.96	1.80 to 2.20	103	90.0 to 110	0.482	15.0
BD09714	Solids, Dissolved	mg/L	0.0000	25.0			279	48.0	40.0 to 60.0			1.78	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-18

**Location Code:** WMWGREAP  
**Collected:** 5/22/23 13:33  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09711

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/25/23 14:07	5/26/23 12:55		1.015	1.49	mg/L	0.030000	0.1015	
* Calcium, Total	5/25/23 14:07	5/31/23 15:25		10.15	82.1	mg/L	0.70035	4.06	
* Iron, Total	5/25/23 14:07	5/31/23 15:25		10.15	16.6	mg/L	0.08120	0.406	
* Lithium, Total	5/25/23 14:07	5/26/23 12:55		1.015	0.286	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/25/23 14:07	5/26/23 12:55		1.015	12.6	mg/L	0.021315	0.406	
* Molybdenum, Total	5/25/23 14:07	5/26/23 12:55		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 12:55		1	17.5	mg/L			
* Silicon, Total	5/25/23 14:07	5/26/23 12:55		1.015	8.19	mg/L	0.02030	0.25375	
* Sodium, Total	5/25/23 14:07	5/31/23 15:25		10.15	47.2	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/25/23 13:08	5/26/23 15:01		1.015	1.50	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/25/23 13:08	5/31/23 16:06		10.15	81.5	mg/L	0.70035	4.06	
* Iron, Dissolved	5/25/23 13:08	5/31/23 16:06		10.15	16.7	mg/L	0.08120	0.406	
* Lithium, Dissolved	5/25/23 13:08	5/26/23 15:01		1.015	0.284	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/25/23 13:08	5/26/23 15:01		1.015	12.5	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/25/23 13:08	5/26/23 15:01		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/25/23 13:08	5/26/23 15:01		1	17.6	mg/L			
* Silicon, Dissolved	5/25/23 13:08	5/26/23 15:01		1.015	8.22	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/25/23 13:08	5/26/23 15:01		1.015	39.7	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/25/23 14:07	5/30/23 13:38		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/25/23 14:07	5/30/23 13:38		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/25/23 14:07	5/30/23 13:38		1.015	0.0491	mg/L	0.000112	0.000203	
* Barium, Total	5/25/23 14:07	5/30/23 13:38		1.015	0.0709	mg/L	0.000508	0.001015	
* Beryllium, Total	5/25/23 14:07	5/30/23 13:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/25/23 14:07	5/30/23 13:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/25/23 14:07	5/30/23 13:38		1.015	0.000293	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/25/23 14:07	5/30/23 13:38		1.015	0.0190	mg/L	0.000068	0.000203	
* Lead, Total	5/25/23 14:07	5/30/23 13:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/25/23 14:07	5/30/23 14:56		5.075	3.02	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-18

**Location Code:** WMWGREAP  
**Collected:** 5/22/23 13:33  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09711

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 13:38		1.015	5.78	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 13:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/25/23 14:07	5/30/23 13:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 13:08	5/30/23 09:30		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 13:08	5/30/23 09:30		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/25/23 13:08	5/30/23 09:30		1.015	0.0501	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/25/23 13:08	5/30/23 09:30		1.015	0.0670	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 13:08	5/30/23 09:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 13:08	5/30/23 09:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 13:08	5/30/23 09:30		1.015	0.000236	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/25/23 13:08	5/30/23 09:30		1.015	0.0196	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/25/23 13:08	5/30/23 09:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/25/23 13:08	5/30/23 10:44		5.075	3.02	mg/L	0.000761	0.005075	
* Potassium, Dissolved	5/25/23 13:08	5/30/23 09:30		1.015	6.11	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 13:08	5/30/23 09:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/25/23 13:08	5/30/23 09:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/25/23 23:53		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 09:42	5/25/23 09:42		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/2/23 10:30	6/2/23 13:48		1	280	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:15	5/30/23 10:15		1	362	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	280	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 14:21	5/25/23 14:21		1	1.93	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-18

**Location Code:** WMWGREAP

**Collected:** 5/22/23 13:33

**Customer ID:**

**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09711

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 15:31	5/24/23 15:31		2	24.4	mg/L	1.00	2	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 11:06	5/25/23 11:06		1	0.186	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 15:38	6/6/23 15:38		1	19.1	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/22/23 13:30	5/22/23 13:30			631.86	uS/cm			FA
pH	5/22/23 13:30	5/22/23 13:30			6.10	SU			FA
Temperature	5/22/23 13:30	5/22/23 13:30			20.44	C			FA
Turbidity	5/22/23 13:30	5/22/23 13:30			3.26	NTU			FA
Sulfide	5/22/23 13:30	5/22/23 13:30			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 5/22/23 13:33  
**Customer ID:**  
**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-18

**Laboratory ID Number:** BD09711

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09719	Aluminum, Dissolved	mg/L	0.000260	0.0198	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD09719	Aluminum, Total	mg/L	0.00158	0.0198	0.100	0.113	0.112	0.107	0.0850 to 0.115	113	70.0 to 130	0.889	20.0
BD09719	Antimony, Dissolved	mg/L	0.000333	0.00100	0.100	0.0958	0.0932	0.0929	0.0850 to 0.115	95.8	70.0 to 130	2.75	20.0
BD09719	Antimony, Total	mg/L	0.000357	0.00100	0.100	0.109	0.110	0.109	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BD09719	Arsenic, Dissolved	mg/L	0.0000224	0.000200	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09719	Arsenic, Total	mg/L	0.0000110	0.000200	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD09719	Barium, Dissolved	mg/L	0.0000168	0.00100	0.100	0.135	0.131	0.0992	0.0850 to 0.115	103	70.0 to 130	3.01	20.0
BD09719	Barium, Total	mg/L	0.0000264	0.00100	0.100	0.146	0.148	0.111	0.0850 to 0.115	110	70.0 to 130	1.36	20.0
BD09719	Beryllium, Dissolved	mg/L	0.0000442	0.000880	0.100	0.116	0.0983	0.102	0.0850 to 0.115	116	70.0 to 130	16.5	20.0
BD09719	Beryllium, Total	mg/L	0.0000350	0.000880	0.100	0.0996	0.0959	0.0929	0.0850 to 0.115	99.6	70.0 to 130	3.79	20.0
BD09719	Boron, Dissolved	mg/L	0.00033	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09719	Boron, Total	mg/L	0.000873	0.0650	1.00	1.05	1.05	1.05	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09719	Cadmium, Dissolved	mg/L	0.0000146	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09719	Cadmium, Total	mg/L	-0.0000005	0.000147	0.100	0.111	0.108	0.111	0.0850 to 0.115	111	70.0 to 130	2.74	20.0
BD09719	Calcium, Dissolved	mg/L	-0.000632	0.152	5.00	12.2	12.3	4.84	4.25 to 5.75	98.2	70.0 to 130	0.816	20.0
BD09719	Calcium, Total	mg/L	0.0167	0.152	5.00	12.1	11.8	4.99	4.25 to 5.75	107	70.0 to 130	2.51	20.0
BD09719	Chloride	mg/L	0.0154	1.00	10.0	17.3	17.3	9.82	9.00 to 11.0	98.6	80.0 to 120	0.00	20.0
BD09719	Chromium, Dissolved	mg/L	-0.000038	0.000440	0.100	0.103	0.0995	0.0996	0.0850 to 0.115	103	70.0 to 130	3.46	20.0
BD09719	Chromium, Total	mg/L	-0.0000577	0.000440	0.100	0.103	0.101	0.101	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD09719	Cobalt, Dissolved	mg/L	-0.000007	0.000147	0.100	0.0999	0.0977	0.0971	0.0850 to 0.115	99.3	70.0 to 130	2.23	20.0
BD09719	Cobalt, Total	mg/L	-0.0000174	0.000147	0.100	0.101	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD09719	Fluoride	mg/L	0.043	0.125	2.50	2.55	2.58	2.57	2.25 to 2.75	102	80.0 to 120	1.17	20.0
BD09719	Iron, Dissolved	mg/L	0.00174	0.0176	0.2	0.215	0.216	0.205	0.170 to 0.230	101	70.0 to 130	0.464	20.0
BD09719	Iron, Total	mg/L	0.00582	0.0176	0.2	0.220	0.220	0.211	0.170 to 0.230	101	70.0 to 130	0.00	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 13:33

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-18

**Laboratory ID Number:** BD09711

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09719	Lead, Dissolved	mg/L	0.000091	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BD09719	Lithium, Dissolved	mg/L	0.000878	0.0154	0.200	0.199	0.199	0.200	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD09719	Lithium, Total	mg/L	-0.00006	0.0154	0.200	0.200	0.206	0.197	0.170 to 0.230	100	70.0 to 130	2.96	20.0
BD09719	Magnesium, Dissolved	mg/L	0.00181	0.0462	5.00	6.33	6.30	4.89	4.25 to 5.75	98.4	70.0 to 130	0.475	20.0
BD09719	Magnesium, Total	mg/L	0.00974	0.0462	5.00	6.40	6.37	4.98	4.25 to 5.75	101	70.0 to 130	0.470	20.0
BD09719	Manganese, Dissolved	mg/L	-0.0000486	0.00033	0.100	0.115	0.112	0.104	0.0850 to 0.115	107	70.0 to 130	2.64	20.0
BD09719	Manganese, Total	mg/L	0.0000290	0.00033	0.100	0.116	0.116	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09719	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00355	0.00347	0.00387	0.00340 to 0.00460	88.8	70.0 to 130	2.28	20.0
BD09719	Molybdenum, Dissolved	mg/L	0.00195	0.0100	0.2	0.201	0.202	0.200	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09719	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.203	0.200	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0
BD09719	Potassium, Dissolved	mg/L	0.00726	0.367	10.0	11.6	11.3	10.3	8.50 to 11.5	104	70.0 to 130	2.62	20.0
BD09719	Potassium, Total	mg/L	0.0166	0.367	10.0	11.4	11.5	10.3	8.50 to 11.5	102	70.0 to 130	0.873	20.0
BD09719	Selenium, Dissolved	mg/L	0.000110	0.00100	0.100	0.103	0.105	0.108	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD09719	Silicon, Dissolved	mg/L	0.00119	0.0440	1.00	5.62	5.63	1.02	0.850 to 1.15	101	70.0 to 130	0.178	20.0
BD09719	Silicon, Total	mg/L	0.00262	0.0440	1.00	5.64	5.63	1.03	0.850 to 1.15	106	70.0 to 130	0.177	20.0
BD09719	Sodium, Dissolved	mg/L	-0.00593	0.0880	5.00	11.1	11.0	4.91	4.25 to 5.75	96.4	70.0 to 130	0.905	20.0
BD09719	Sodium, Total	mg/L	-0.000349	0.0880	5.00	11.3	11.5	4.92	4.25 to 5.75	100	70.0 to 130	1.75	20.0
BD09719	Sulfate	mg/L	-0.0419	2.0	20.0	22.4	22.4	19.1	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BD09719	Thallium, Dissolved	mg/L	-0.000001	0.000147	0.100	0.105	0.107	0.109	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD09719	Thallium, Total	mg/L	-0.0000082	0.000147	0.100	0.114	0.113	0.110	0.0850 to 0.115	114	70.0 to 130	0.881	20.0
BD09719	Total Organic Carbon	mg/L	0.0746	1.00	10.0	9.45	9.56	10.1		94.5	80.0 to 120	1.16	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 13:33

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-18

**Laboratory ID Number:** BD09711

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD09715	Alkalinity	mg CaCO3/L					202	50.2	45.0 to 55.0			2.51	10.0
BD09719	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.69	0.624	1.96	1.80 to 2.20	103	90.0 to 110	0.482	15.0
BD09714	Solids, Dissolved	mg/L	0.0000	25.0			279	48.0	40.0 to 60.0			1.78	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-45H

**Location Code:** WMWGREAP  
**Collected:** 5/22/23 15:00  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09712

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/25/23 14:07	5/26/23 12:58		1.015	0.536	mg/L	0.030000	0.1015	
* Calcium, Total	5/25/23 14:07	5/31/23 15:28		10.15	110	mg/L	0.70035	4.06	
* Iron, Total	5/25/23 14:07	5/26/23 12:58		1.015	0.410	mg/L	0.008120	0.0406	
* Lithium, Total	5/25/23 14:07	5/26/23 12:58		1.015	0.470	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/25/23 14:07	5/26/23 12:58		1.015	26.7	mg/L	0.021315	0.406	
* Molybdenum, Total	5/25/23 14:07	5/26/23 12:58		1.015	0.0593	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 12:58		1	5.91	mg/L			
* Silicon, Total	5/25/23 14:07	5/26/23 12:58		1.015	2.76	mg/L	0.02030	0.25375	
* Sodium, Total	5/25/23 14:07	5/26/23 12:58		1.015	21.9	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/25/23 13:08	5/26/23 15:05		1.015	0.536	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/25/23 13:08	5/31/23 16:09		10.15	113	mg/L	0.70035	4.06	
* Iron, Dissolved	5/25/23 13:08	5/26/23 15:05		1.015	0.111	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/25/23 13:08	5/26/23 15:05		1.015	0.465	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/25/23 13:08	5/26/23 15:05		1.015	26.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/25/23 13:08	5/26/23 15:05		1.015	0.0587	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	5/25/23 13:08	5/26/23 15:05		1	5.78	mg/L			
* Silicon, Dissolved	5/25/23 13:08	5/26/23 15:05		1.015	2.70	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/25/23 13:08	5/26/23 15:05		1.015	21.7	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/25/23 14:07	5/30/23 13:41		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/25/23 14:07	5/30/23 13:41		1.015	0.0221	mg/L	0.009135	0.05075	J
* Arsenic, Total	5/25/23 14:07	5/30/23 13:41		1.015	0.000837	mg/L	0.000112	0.000203	
* Barium, Total	5/25/23 14:07	5/30/23 13:41		1.015	0.0532	mg/L	0.000508	0.001015	
* Beryllium, Total	5/25/23 14:07	5/30/23 13:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/25/23 14:07	5/30/23 13:41		1.015	0.000125	mg/L	0.000068	0.000203	J
* Chromium, Total	5/25/23 14:07	5/30/23 13:41		1.015	0.000234	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/25/23 14:07	5/30/23 13:41		1.015	0.00970	mg/L	0.000068	0.000203	
* Lead, Total	5/25/23 14:07	5/30/23 13:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/25/23 14:07	5/30/23 15:00		5.075	5.73	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-45H

**Location Code:** WMWGREAP

**Collected:** 5/22/23 15:00

**Customer ID:**

**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09712

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 13:41		1.015	8.38	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 13:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/25/23 14:07	5/30/23 13:41		1.015	0.000273	mg/L	0.000068	0.000203	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 13:08	5/30/23 09:34		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 13:08	5/30/23 09:34		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/25/23 13:08	5/30/23 09:34		1.015	0.000448	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/25/23 13:08	5/30/23 09:34		1.015	0.0468	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 13:08	5/30/23 09:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 13:08	5/30/23 09:34		1.015	0.0000953	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	5/25/23 13:08	5/30/23 09:34		1.015	0.000206	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/25/23 13:08	5/30/23 09:34		1.015	0.00889	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/25/23 13:08	5/30/23 09:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/25/23 13:08	5/30/23 10:48		5.075	5.40	mg/L	0.000761	0.005075	
* Potassium, Dissolved	5/25/23 13:08	5/30/23 09:34		1.015	8.33	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 13:08	5/30/23 09:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/25/23 13:08	5/30/23 09:34		1.015	0.000242	mg/L	0.000068	0.000203	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/25/23 23:57		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 09:44	5/25/23 09:44		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/2/23 10:30	6/2/23 13:48		1	118	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:15	5/30/23 10:15		1	508	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	118	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	Not Detected	mg CaCO3/L		0.5	A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 14:38	5/25/23 14:38		1	1.44	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-45H

**Location Code:** WMWGREAP

**Collected:** 5/22/23 15:00

**Customer ID:**

**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09712

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 15:19	5/24/23 15:19		1	8.49	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 11:07	5/25/23 11:07		1	0.154	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 15:51	6/6/23 15:51		16	247	mg/L	9.6	32	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/22/23 14:58	5/22/23 14:58			751.63	uS/cm			FA
pH	5/22/23 14:58	5/22/23 14:58			6.65	SU			FA
Temperature	5/22/23 14:58	5/22/23 14:58			21.00	C			FA
Turbidity	5/22/23 14:58	5/22/23 14:58			4.77	NTU			FA
Sulfide	5/22/23 14:58	5/22/23 14:58			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 15:00

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-45H

**Laboratory ID Number:** BD09712

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD09719	Aluminum, Dissolved	mg/L	0.000260	0.0198	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD09719	Aluminum, Total	mg/L	0.00158	0.0198	0.100	0.113	0.112	0.107	0.0850 to 0.115	113	70.0 to 130	0.889	20.0
BD09719	Antimony, Dissolved	mg/L	0.000333	0.00100	0.100	0.0958	0.0932	0.0929	0.0850 to 0.115	95.8	70.0 to 130	2.75	20.0
BD09719	Antimony, Total	mg/L	0.000357	0.00100	0.100	0.109	0.110	0.109	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BD09719	Arsenic, Dissolved	mg/L	0.0000224	0.000200	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09719	Arsenic, Total	mg/L	0.0000110	0.000200	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD09719	Barium, Dissolved	mg/L	0.0000168	0.00100	0.100	0.135	0.131	0.0992	0.0850 to 0.115	103	70.0 to 130	3.01	20.0
BD09719	Barium, Total	mg/L	0.0000264	0.00100	0.100	0.146	0.148	0.111	0.0850 to 0.115	110	70.0 to 130	1.36	20.0
BD09719	Beryllium, Dissolved	mg/L	0.0000442	0.000880	0.100	0.116	0.0983	0.102	0.0850 to 0.115	116	70.0 to 130	16.5	20.0
BD09719	Beryllium, Total	mg/L	0.0000350	0.000880	0.100	0.0996	0.0959	0.0929	0.0850 to 0.115	99.6	70.0 to 130	3.79	20.0
BD09719	Boron, Dissolved	mg/L	0.00033	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09719	Boron, Total	mg/L	0.000873	0.0650	1.00	1.05	1.05	1.05	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09719	Cadmium, Dissolved	mg/L	0.0000146	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09719	Cadmium, Total	mg/L	-0.0000005	0.000147	0.100	0.111	0.108	0.111	0.0850 to 0.115	111	70.0 to 130	2.74	20.0
BD09719	Calcium, Dissolved	mg/L	-0.000632	0.152	5.00	12.2	12.3	4.84	4.25 to 5.75	98.2	70.0 to 130	0.816	20.0
BD09719	Calcium, Total	mg/L	0.0167	0.152	5.00	12.1	11.8	4.99	4.25 to 5.75	107	70.0 to 130	2.51	20.0
BD09719	Chloride	mg/L	0.0154	1.00	10.0	17.3	17.3	9.82	9.00 to 11.0	98.6	80.0 to 120	0.00	20.0
BD09719	Chromium, Dissolved	mg/L	-0.000038	0.000440	0.100	0.103	0.0995	0.0996	0.0850 to 0.115	103	70.0 to 130	3.46	20.0
BD09719	Chromium, Total	mg/L	-0.0000577	0.000440	0.100	0.103	0.101	0.101	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD09719	Cobalt, Dissolved	mg/L	-0.000007	0.000147	0.100	0.0999	0.0977	0.0971	0.0850 to 0.115	99.3	70.0 to 130	2.23	20.0
BD09719	Cobalt, Total	mg/L	-0.0000174	0.000147	0.100	0.101	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD09719	Fluoride	mg/L	0.043	0.125	2.50	2.55	2.58	2.57	2.25 to 2.75	102	80.0 to 120	1.17	20.0
BD09719	Iron, Dissolved	mg/L	0.00174	0.0176	0.2	0.215	0.216	0.205	0.170 to 0.230	101	70.0 to 130	0.464	20.0
BD09719	Iron, Total	mg/L	0.00582	0.0176	0.2	0.220	0.220	0.211	0.170 to 0.230	101	70.0 to 130	0.00	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 5/22/23 15:00  
**Customer ID:**  
**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-45H

**Laboratory ID Number:** BD09712

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09719	Lead, Dissolved	mg/L	0.0000091	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BD09719	Lithium, Dissolved	mg/L	0.000878	0.0154	0.200	0.199	0.199	0.200	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD09719	Lithium, Total	mg/L	-0.00006	0.0154	0.200	0.200	0.206	0.197	0.170 to 0.230	100	70.0 to 130	2.96	20.0
BD09719	Magnesium, Dissolved	mg/L	0.00181	0.0462	5.00	6.33	6.30	4.89	4.25 to 5.75	98.4	70.0 to 130	0.475	20.0
BD09719	Magnesium, Total	mg/L	0.00974	0.0462	5.00	6.40	6.37	4.98	4.25 to 5.75	101	70.0 to 130	0.470	20.0
BD09719	Manganese, Dissolved	mg/L	-0.0000486	0.00033	0.100	0.115	0.112	0.104	0.0850 to 0.115	107	70.0 to 130	2.64	20.0
BD09719	Manganese, Total	mg/L	0.0000290	0.00033	0.100	0.116	0.116	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09719	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00355	0.00347	0.00387	0.00340 to 0.00460	88.8	70.0 to 130	2.28	20.0
BD09719	Molybdenum, Dissolved	mg/L	0.00195	0.0100	0.2	0.201	0.202	0.200	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09719	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.203	0.200	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0
BD09719	Potassium, Dissolved	mg/L	0.00726	0.367	10.0	11.6	11.3	10.3	8.50 to 11.5	104	70.0 to 130	2.62	20.0
BD09719	Potassium, Total	mg/L	0.0166	0.367	10.0	11.4	11.5	10.3	8.50 to 11.5	102	70.0 to 130	0.873	20.0
BD09719	Selenium, Dissolved	mg/L	0.000110	0.00100	0.100	0.103	0.105	0.108	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD09719	Silicon, Dissolved	mg/L	0.00119	0.0440	1.00	5.62	5.63	1.02	0.850 to 1.15	101	70.0 to 130	0.178	20.0
BD09719	Silicon, Total	mg/L	0.00262	0.0440	1.00	5.64	5.63	1.03	0.850 to 1.15	106	70.0 to 130	0.177	20.0
BD09719	Sodium, Dissolved	mg/L	-0.00593	0.0880	5.00	11.1	11.0	4.91	4.25 to 5.75	96.4	70.0 to 130	0.905	20.0
BD09719	Sodium, Total	mg/L	-0.000349	0.0880	5.00	11.3	11.5	4.92	4.25 to 5.75	100	70.0 to 130	1.75	20.0
BD09719	Sulfate	mg/L	-0.0419	2.0	20.0	22.4	22.4	19.1	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BD09719	Thallium, Dissolved	mg/L	-0.000001	0.000147	0.100	0.105	0.107	0.109	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD09719	Thallium, Total	mg/L	-0.0000082	0.000147	0.100	0.114	0.113	0.110	0.0850 to 0.115	114	70.0 to 130	0.881	20.0
BD09719	Total Organic Carbon	mg/L	0.0746	1.00	10.0	9.45	9.56	10.1		94.5	80.0 to 120	1.16	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 15:00

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-45H

**Laboratory ID Number:** BD09712

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09715	Alkalinity	mg CaCO3/L					202	50.2	45.0 to 55.0			2.51	10.0
BD09719	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.69	0.624	1.96	1.80 to 2.20	103	90.0 to 110	0.482	15.0
BD09714	Solids, Dissolved	mg/L	0.0000	25.0			279	48.0	40.0 to 60.0			1.78	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-37H

**Location Code:** WMWGREAP

**Collected:** 5/23/23 09:10

**Customer ID:**

**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09713

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/25/23 14:07	5/26/23 13:01		1.015	0.159	mg/L	0.030000	0.1015	
* Calcium, Total	5/25/23 14:07	5/31/23 15:31		101.5	158	mg/L	7.0035	40.6	
* Iron, Total	5/25/23 14:07	5/31/23 15:31		101.5	83.9	mg/L	0.8120	4.06	
* Lithium, Total	5/25/23 14:07	5/26/23 13:01		1.015	0.00795	mg/L	0.007105	0.01999956	J
* Magnesium, Total	5/25/23 14:07	5/26/23 13:01		1.015	25.0	mg/L	0.021315	0.406	
* Molybdenum, Total	5/25/23 14:07	5/26/23 13:01		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 13:01		1	18.7	mg/L			
* Silicon, Total	5/25/23 14:07	5/26/23 13:01		1.015	8.73	mg/L	0.02030	0.25375	
* Sodium, Total	5/25/23 14:07	5/26/23 13:01		1.015	28.6	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/25/23 13:08	5/26/23 15:08		1.015	0.161	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/25/23 13:08	5/31/23 16:12		101.5	138	mg/L	7.0035	40.6	
* Iron, Dissolved	5/25/23 13:08	5/31/23 16:12		101.5	72.2	mg/L	0.8120	4.06	
* Lithium, Dissolved	5/25/23 13:08	5/26/23 15:08		1.015	0.00784	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	5/25/23 13:08	5/26/23 15:08		1.015	24.5	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/25/23 13:08	5/26/23 15:08		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/25/23 13:08	5/26/23 15:08		1	17.5	mg/L			
* Silicon, Dissolved	5/25/23 13:08	5/26/23 15:08		1.015	8.19	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/25/23 13:08	5/26/23 15:08		1.015	26.1	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/25/23 14:07	5/30/23 13:45		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/25/23 14:07	5/30/23 13:45		1.015	0.0104	mg/L	0.009135	0.05075	J
* Arsenic, Total	5/25/23 14:07	5/30/23 13:45		1.015	0.00924	mg/L	0.000112	0.000203	
* Barium, Total	5/25/23 14:07	5/30/23 13:45		1.015	0.0845	mg/L	0.000508	0.001015	
* Beryllium, Total	5/25/23 14:07	5/30/23 13:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/25/23 14:07	5/30/23 13:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/25/23 14:07	5/30/23 13:45		1.015	0.000433	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/25/23 14:07	5/30/23 13:45		1.015	0.0147	mg/L	0.000068	0.000203	
* Lead, Total	5/25/23 14:07	5/30/23 13:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/25/23 14:07	5/30/23 15:03		5.075	5.16	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-37H

**Location Code:** WMWGREAP

**Collected:** 5/23/23 09:10

**Customer ID:**

**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09713

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 13:45		1.015	2.53	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 13:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/25/23 14:07	5/30/23 13:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 13:08	5/30/23 09:37		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 13:08	5/30/23 09:37		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/25/23 13:08	5/30/23 09:37		1.015	0.00875	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/25/23 13:08	5/30/23 09:37		1.015	0.0630	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 13:08	5/30/23 09:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 13:08	5/30/23 09:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 13:08	5/30/23 09:37		1.015	0.000338	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/25/23 13:08	5/30/23 09:37		1.015	0.0163	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/25/23 13:08	5/30/23 09:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/25/23 13:08	5/30/23 10:51		5.075	4.89	mg/L	0.000761	0.005075	
* Potassium, Dissolved	5/25/23 13:08	5/30/23 09:37		1.015	2.30	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 13:08	5/30/23 09:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/25/23 13:08	5/30/23 09:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/26/23 00:01		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 09:46	5/25/23 09:46		1	0.215	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/2/23 10:30	6/2/23 13:48		1	186	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:15	5/30/23 10:15		1	834	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	186	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	Not Detected	mg CaCO3/L		0.5	A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 14:52	5/25/23 14:52		1	9.15	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-37H

**Location Code:** WMWGREAP

**Collected:** 5/23/23 09:10

**Customer ID:**

**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09713

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 15:20	5/24/23 15:20		1	12.9	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 11:08	5/25/23 11:08		1	0.141	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 15:53	6/6/23 15:53		25	374	mg/L	15.0	50	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/23/23 09:06	5/23/23 09:06			1120.69	uS/cm			FA
pH	5/23/23 09:06	5/23/23 09:06			6.26	SU			FA
Temperature	5/23/23 09:06	5/23/23 09:06			19.96	C			FA
Turbidity	5/23/23 09:06	5/23/23 09:06			3.34	NTU			FA
Sulfide	5/23/23 09:06	5/23/23 09:06			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 09:10

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-37H

**Laboratory ID Number:** BD09713

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec		
BD09719	Aluminum, Dissolved	mg/L	0.000260	0.0198	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0	
BD09719	Aluminum, Total	mg/L	0.00158	0.0198	0.100	0.113	0.112	0.107	0.0850 to 0.115	113	70.0 to 130	0.889	20.0	
BD09719	Antimony, Dissolved	mg/L	0.000333	0.00100	0.100	0.0958	0.0932	0.0929	0.0850 to 0.115	95.8	70.0 to 130	2.75	20.0	
BD09719	Antimony, Total	mg/L	0.000357	0.00100	0.100	0.109	0.110	0.109	0.0850 to 0.115	109	70.0 to 130	0.913	20.0	
BD09719	Arsenic, Dissolved	mg/L	0.0000224	0.000200	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0	
BD09719	Arsenic, Total	mg/L	0.0000110	0.000200	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0	
BD09719	Barium, Dissolved	mg/L	0.0000168	0.00100	0.100	0.135	0.131	0.0992	0.0850 to 0.115	103	70.0 to 130	3.01	20.0	
BD09719	Barium, Total	mg/L	0.0000264	0.00100	0.100	0.146	0.148	0.111	0.0850 to 0.115	110	70.0 to 130	1.36	20.0	
BD09719	Beryllium, Dissolved	mg/L	0.0000442	0.000880	0.100	0.116	0.0983	0.102	0.0850 to 0.115	116	70.0 to 130	16.5	20.0	
BD09719	Beryllium, Total	mg/L	0.0000350	0.000880	0.100	0.0996	0.0959	0.0929	0.0850 to 0.115	99.6	70.0 to 130	3.79	20.0	
BD09719	Boron, Dissolved	mg/L	0.00033	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0	
BD09719	Boron, Total	mg/L	0.000873	0.0650	1.00	1.05	1.05	1.05	0.850 to 1.15	105	70.0 to 130	0.00	20.0	
BD09719	Cadmium, Dissolved	mg/L	0.0000146	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0	
BD09719	Cadmium, Total	mg/L	-0.0000005	0.000147	0.100	0.111	0.108	0.111	0.0850 to 0.115	111	70.0 to 130	2.74	20.0	
BD09719	Calcium, Dissolved	mg/L	-0.000632	0.152	5.00	12.2	12.3	4.84	4.25 to 5.75	98.2	70.0 to 130	0.816	20.0	
BD09719	Calcium, Total	mg/L	0.0167	0.152	5.00	12.1	11.8	4.99	4.25 to 5.75	107	70.0 to 130	2.51	20.0	
BD09719	Chloride	mg/L	0.0154	1.00	10.0	17.3	17.3	9.82	9.00 to 11.0	98.6	80.0 to 120	0.00	20.0	
BD09719	Chromium, Dissolved	mg/L	-0.000038	0.000440	0.100	0.103	0.0995	0.0996	0.0850 to 0.115	103	70.0 to 130	3.46	20.0	
BD09719	Chromium, Total	mg/L	-0.0000577	0.000440	0.100	0.103	0.101	0.101	0.0850 to 0.115	103	70.0 to 130	1.96	20.0	
BD09719	Cobalt, Dissolved	mg/L	-0.000007	0.000147	0.100	0.0999	0.0977	0.0971	0.0850 to 0.115	99.3	70.0 to 130	2.23	20.0	
BD09719	Cobalt, Total	mg/L	-0.0000174	0.000147	0.100	0.101	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.00	20.0	
BD09719	Fluoride	mg/L	0.043	0.125	2.50	2.55	2.58	2.57	2.25 to 2.75	102	80.0 to 120	1.17	20.0	
BD09719	Iron, Dissolved	mg/L	0.00174	0.0176	0.2	0.215	0.216	0.205	0.170 to 0.230	101	70.0 to 130	0.464	20.0	
BD09719	Iron, Total	mg/L	0.00582	0.0176	0.2	0.220	0.220	0.211	0.170 to 0.230	101	70.0 to 130	0.00	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 09:10

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-37H

**Laboratory ID Number:** BD09713

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09719	Lead, Dissolved	mg/L	0.0000091	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BD09719	Lithium, Dissolved	mg/L	0.000878	0.0154	0.200	0.199	0.199	0.200	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD09719	Lithium, Total	mg/L	-0.00006	0.0154	0.200	0.200	0.206	0.197	0.170 to 0.230	100	70.0 to 130	2.96	20.0
BD09719	Magnesium, Dissolved	mg/L	0.00181	0.0462	5.00	6.33	6.30	4.89	4.25 to 5.75	98.4	70.0 to 130	0.475	20.0
BD09719	Magnesium, Total	mg/L	0.00974	0.0462	5.00	6.40	6.37	4.98	4.25 to 5.75	101	70.0 to 130	0.470	20.0
BD09719	Manganese, Dissolved	mg/L	-0.0000486	0.00033	0.100	0.115	0.112	0.104	0.0850 to 0.115	107	70.0 to 130	2.64	20.0
BD09719	Manganese, Total	mg/L	0.0000290	0.00033	0.100	0.116	0.116	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09719	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00355	0.00347	0.00387	0.00340 to 0.00460	88.8	70.0 to 130	2.28	20.0
BD09719	Molybdenum, Dissolved	mg/L	0.00195	0.0100	0.2	0.201	0.202	0.200	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09719	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.203	0.200	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0
BD09719	Potassium, Dissolved	mg/L	0.00726	0.367	10.0	11.6	11.3	10.3	8.50 to 11.5	104	70.0 to 130	2.62	20.0
BD09719	Potassium, Total	mg/L	0.0166	0.367	10.0	11.4	11.5	10.3	8.50 to 11.5	102	70.0 to 130	0.873	20.0
BD09719	Selenium, Dissolved	mg/L	0.000110	0.00100	0.100	0.103	0.105	0.108	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD09719	Silicon, Dissolved	mg/L	0.00119	0.0440	1.00	5.62	5.63	1.02	0.850 to 1.15	101	70.0 to 130	0.178	20.0
BD09719	Silicon, Total	mg/L	0.00262	0.0440	1.00	5.64	5.63	1.03	0.850 to 1.15	106	70.0 to 130	0.177	20.0
BD09719	Sodium, Dissolved	mg/L	-0.00593	0.0880	5.00	11.1	11.0	4.91	4.25 to 5.75	96.4	70.0 to 130	0.905	20.0
BD09719	Sodium, Total	mg/L	-0.000349	0.0880	5.00	11.3	11.5	4.92	4.25 to 5.75	100	70.0 to 130	1.75	20.0
BD09719	Sulfate	mg/L	-0.0419	2.0	20.0	22.4	22.4	19.1	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BD09719	Thallium, Dissolved	mg/L	-0.000001	0.000147	0.100	0.105	0.107	0.109	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD09719	Thallium, Total	mg/L	-0.0000082	0.000147	0.100	0.114	0.113	0.110	0.0850 to 0.115	114	70.0 to 130	0.881	20.0
BD09719	Total Organic Carbon	mg/L	0.0746	1.00	10.0	9.45	9.56	10.1		94.5	80.0 to 120	1.16	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 09:10

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-37H

**Laboratory ID Number:** BD09713

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09715	Alkalinity	mg CaCO3/L					202	50.2	45.0 to 55.0			2.51	10.0
BD09719	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.69	0.624	1.96	1.80 to 2.20	103	90.0 to 110	0.482	15.0
BD09714	Solids, Dissolved	mg/L	0.0000	25.0			279	48.0	40.0 to 60.0			1.78	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-38H

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 10:40  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09714

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	5/25/23 14:07	5/26/23 13:04		1.015	0.0710	mg/L	0.030000	0.1015	J	
* Calcium, Total	5/25/23 14:07	5/31/23 15:34		10.15	110	mg/L	0.70035	4.06		
* Iron, Total	5/25/23 14:07	5/26/23 13:04		1.015	0.260	mg/L	0.008120	0.0406		
* Lithium, Total	5/25/23 14:07	5/26/23 13:04		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/25/23 14:07	5/26/23 13:04		1.015	6.90	mg/L	0.021315	0.406		
* Molybdenum, Total	5/25/23 14:07	5/26/23 13:04		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 13:04		1	9.10	mg/L				
* Silicon, Total	5/25/23 14:07	5/26/23 13:04		1.015	4.25	mg/L	0.02030	0.25375		
* Sodium, Total	5/25/23 14:07	5/26/23 13:04		1.015	2.40	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	5/25/23 13:08	5/26/23 15:11		1.015	0.0701	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	5/25/23 13:08	5/31/23 16:15		10.15	109	mg/L	0.70035	4.06		
* Iron, Dissolved	5/25/23 13:08	5/26/23 15:11		1.015	0.210	mg/L	0.008120	0.0406		
* Lithium, Dissolved	5/25/23 13:08	5/26/23 15:11		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/25/23 13:08	5/26/23 15:11		1.015	6.97	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	5/25/23 13:08	5/26/23 15:11		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	5/25/23 13:08	5/26/23 15:11		1	9.05	mg/L				
* Silicon, Dissolved	5/25/23 13:08	5/26/23 15:11		1.015	4.23	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/25/23 13:08	5/26/23 15:11		1.015	2.33	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	5/25/23 14:07	5/30/23 13:48		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	5/25/23 14:07	5/30/23 13:48		1.015	0.00978	mg/L	0.009135	0.05075	J	
* Arsenic, Total	5/25/23 14:07	5/30/23 13:48		1.015	0.000132	mg/L	0.000112	0.000203	J	
* Barium, Total	5/25/23 14:07	5/30/23 13:48		1.015	0.103	mg/L	0.000508	0.001015		
* Beryllium, Total	5/25/23 14:07	5/30/23 13:48		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/25/23 14:07	5/30/23 13:48		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	5/25/23 14:07	5/30/23 13:48		1.015	0.000430	mg/L	0.000203	0.001015	J	
* Cobalt, Total	5/25/23 14:07	5/30/23 13:48		1.015	0.000842	mg/L	0.000068	0.000203		
* Lead, Total	5/25/23 14:07	5/30/23 13:48		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	5/25/23 14:07	5/30/23 13:48		1.015	0.118	mg/L	0.000152	0.001015		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-38H

**Location Code:** WMWGREAP

**Collected:** 5/23/23 10:40

**Customer ID:**

**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09714

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 13:48		1.015	1.96	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 13:48		1.015	0.0163	mg/L	0.000508	0.001015	
* Thallium, Total	5/25/23 14:07	5/30/23 13:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 13:08	5/30/23 09:41		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 13:08	5/30/23 09:41		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/25/23 13:08	5/30/23 09:41		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	5/25/23 13:08	5/30/23 09:41		1.015	0.0903	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 13:08	5/30/23 09:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 13:08	5/30/23 09:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 13:08	5/30/23 09:41		1.015	0.000246	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/25/23 13:08	5/30/23 09:41		1.015	0.000718	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/25/23 13:08	5/30/23 09:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/25/23 13:08	5/30/23 09:41		1.015	0.109	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/25/23 13:08	5/30/23 09:41		1.015	1.90	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 13:08	5/30/23 09:41		1.015	0.0176	mg/L	0.000508	0.001015	
* Thallium, Dissolved	5/25/23 13:08	5/30/23 09:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/26/23 00:05		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 09:48	5/25/23 09:48		1	0.390	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/2/23 10:30	6/2/23 13:48		1	216	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:15	5/30/23 10:15		1	284	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	216	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 15:07	5/25/23 15:07		1	1.11	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-38H

**Location Code:** WMWGREAP

**Collected:** 5/23/23 10:40

**Customer ID:**

**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09714

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 15:21	5/24/23 15:21		1	4.23	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 11:10	5/25/23 11:10		1	0.144	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 15:42	6/6/23 15:42		1	32.7	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/23/23 10:37	5/23/23 10:37			457.52	uS/cm			FA
pH	5/23/23 10:37	5/23/23 10:37			6.59	SU			FA
Temperature	5/23/23 10:37	5/23/23 10:37			19.70	C			FA
Turbidity	5/23/23 10:37	5/23/23 10:37			2	NTU			FA
Sulfide	5/23/23 10:37	5/23/23 10:37			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 10:40

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-38H

**Laboratory ID Number:** BD09714

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD09719	Aluminum, Dissolved	mg/L	0.000260	0.0198	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD09719	Aluminum, Total	mg/L	0.00158	0.0198	0.100	0.113	0.112	0.107	0.0850 to 0.115	113	70.0 to 130	0.889	20.0
BD09719	Antimony, Dissolved	mg/L	0.000333	0.00100	0.100	0.0958	0.0932	0.0929	0.0850 to 0.115	95.8	70.0 to 130	2.75	20.0
BD09719	Antimony, Total	mg/L	0.000357	0.00100	0.100	0.109	0.110	0.109	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BD09719	Arsenic, Dissolved	mg/L	0.0000224	0.000200	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09719	Arsenic, Total	mg/L	0.0000110	0.000200	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD09719	Barium, Dissolved	mg/L	0.0000168	0.00100	0.100	0.135	0.131	0.0992	0.0850 to 0.115	103	70.0 to 130	3.01	20.0
BD09719	Barium, Total	mg/L	0.0000264	0.00100	0.100	0.146	0.148	0.111	0.0850 to 0.115	110	70.0 to 130	1.36	20.0
BD09719	Beryllium, Dissolved	mg/L	0.0000442	0.000880	0.100	0.116	0.0983	0.102	0.0850 to 0.115	116	70.0 to 130	16.5	20.0
BD09719	Beryllium, Total	mg/L	0.0000350	0.000880	0.100	0.0996	0.0959	0.0929	0.0850 to 0.115	99.6	70.0 to 130	3.79	20.0
BD09719	Boron, Dissolved	mg/L	0.00033	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09719	Boron, Total	mg/L	0.000873	0.0650	1.00	1.05	1.05	1.05	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09719	Cadmium, Dissolved	mg/L	0.0000146	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09719	Cadmium, Total	mg/L	-0.0000005	0.000147	0.100	0.111	0.108	0.111	0.0850 to 0.115	111	70.0 to 130	2.74	20.0
BD09719	Calcium, Dissolved	mg/L	-0.000632	0.152	5.00	12.2	12.3	4.84	4.25 to 5.75	98.2	70.0 to 130	0.816	20.0
BD09719	Calcium, Total	mg/L	0.0167	0.152	5.00	12.1	11.8	4.99	4.25 to 5.75	107	70.0 to 130	2.51	20.0
BD09719	Chloride	mg/L	0.0154	1.00	10.0	17.3	17.3	9.82	9.00 to 11.0	98.6	80.0 to 120	0.00	20.0
BD09719	Chromium, Dissolved	mg/L	-0.000038	0.000440	0.100	0.103	0.0995	0.0996	0.0850 to 0.115	103	70.0 to 130	3.46	20.0
BD09719	Chromium, Total	mg/L	-0.0000577	0.000440	0.100	0.103	0.101	0.101	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD09719	Cobalt, Dissolved	mg/L	-0.000007	0.000147	0.100	0.0999	0.0977	0.0971	0.0850 to 0.115	99.3	70.0 to 130	2.23	20.0
BD09719	Cobalt, Total	mg/L	-0.0000174	0.000147	0.100	0.101	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD09719	Fluoride	mg/L	0.043	0.125	2.50	2.55	2.58	2.57	2.25 to 2.75	102	80.0 to 120	1.17	20.0
BD09719	Iron, Dissolved	mg/L	0.00174	0.0176	0.2	0.215	0.216	0.205	0.170 to 0.230	101	70.0 to 130	0.464	20.0
BD09719	Iron, Total	mg/L	0.00582	0.0176	0.2	0.220	0.220	0.211	0.170 to 0.230	101	70.0 to 130	0.00	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 10:40

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-38H

**Laboratory ID Number:** BD09714

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09719	Lead, Dissolved	mg/L	0.000091	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BD09719	Lithium, Dissolved	mg/L	0.000878	0.0154	0.200	0.199	0.199	0.200	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD09719	Lithium, Total	mg/L	-0.00006	0.0154	0.200	0.200	0.206	0.197	0.170 to 0.230	100	70.0 to 130	2.96	20.0
BD09719	Magnesium, Dissolved	mg/L	0.00181	0.0462	5.00	6.33	6.30	4.89	4.25 to 5.75	98.4	70.0 to 130	0.475	20.0
BD09719	Magnesium, Total	mg/L	0.00974	0.0462	5.00	6.40	6.37	4.98	4.25 to 5.75	101	70.0 to 130	0.470	20.0
BD09719	Manganese, Dissolved	mg/L	-0.0000486	0.00033	0.100	0.115	0.112	0.104	0.0850 to 0.115	107	70.0 to 130	2.64	20.0
BD09719	Manganese, Total	mg/L	0.0000290	0.00033	0.100	0.116	0.116	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09719	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00355	0.00347	0.00387	0.00340 to 0.00460	88.8	70.0 to 130	2.28	20.0
BD09719	Molybdenum, Dissolved	mg/L	0.00195	0.0100	0.2	0.201	0.202	0.200	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09719	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.203	0.200	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0
BD09719	Potassium, Dissolved	mg/L	0.00726	0.367	10.0	11.6	11.3	10.3	8.50 to 11.5	104	70.0 to 130	2.62	20.0
BD09719	Potassium, Total	mg/L	0.0166	0.367	10.0	11.4	11.5	10.3	8.50 to 11.5	102	70.0 to 130	0.873	20.0
BD09719	Selenium, Dissolved	mg/L	0.000110	0.00100	0.100	0.103	0.105	0.108	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD09719	Silicon, Dissolved	mg/L	0.00119	0.0440	1.00	5.62	5.63	1.02	0.850 to 1.15	101	70.0 to 130	0.178	20.0
BD09719	Silicon, Total	mg/L	0.00262	0.0440	1.00	5.64	5.63	1.03	0.850 to 1.15	106	70.0 to 130	0.177	20.0
BD09719	Sodium, Dissolved	mg/L	-0.00593	0.0880	5.00	11.1	11.0	4.91	4.25 to 5.75	96.4	70.0 to 130	0.905	20.0
BD09719	Sodium, Total	mg/L	-0.000349	0.0880	5.00	11.3	11.5	4.92	4.25 to 5.75	100	70.0 to 130	1.75	20.0
BD09719	Sulfate	mg/L	-0.0419	2.0	20.0	22.4	22.4	19.1	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BD09719	Thallium, Dissolved	mg/L	-0.000001	0.000147	0.100	0.105	0.107	0.109	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD09719	Thallium, Total	mg/L	-0.0000082	0.000147	0.100	0.114	0.113	0.110	0.0850 to 0.115	114	70.0 to 130	0.881	20.0
BD09719	Total Organic Carbon	mg/L	0.0746	1.00	10.0	9.45	9.56	10.1		94.5	80.0 to 120	1.16	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 10:40

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-38H

**Laboratory ID Number:** BD09714

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09715	Alkalinity	mg CaCO3/L					202	50.2	45.0 to 55.0			2.51	10.0
BD09719	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.69	0.624	1.96	1.80 to 2.20	103	90.0 to 110	0.482	15.0
BD09714	Solids, Dissolved	mg/L	0.0000	25.0			279	48.0	40.0 to 60.0			1.78	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-15

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 13:40  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09715

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/25/23 14:07	5/26/23 13:07		1.015	0.935	mg/L	0.030000	0.1015	
* Calcium, Total	5/25/23 14:07	5/31/23 15:38		10.15	92.5	mg/L	0.70035	4.06	
* Iron, Total	5/25/23 14:07	5/26/23 13:07		1.015	1.17	mg/L	0.008120	0.0406	
* Lithium, Total	5/25/23 14:07	5/26/23 13:07		1.015	0.556	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/25/23 14:07	5/26/23 13:07		1.015	18.8	mg/L	0.021315	0.406	
* Molybdenum, Total	5/25/23 14:07	5/26/23 13:07		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 13:07		1	11.8	mg/L			
* Silicon, Total	5/25/23 14:07	5/26/23 13:07		1.015	5.52	mg/L	0.02030	0.25375	
* Sodium, Total	5/25/23 14:07	5/26/23 13:07		1.015	27.9	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/25/23 13:08	5/26/23 15:14		1.015	0.931	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/25/23 13:08	5/31/23 16:19		10.15	101	mg/L	0.70035	4.06	
* Iron, Dissolved	5/25/23 13:08	5/26/23 15:14		1.015	1.11	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/25/23 13:08	5/26/23 15:14		1.015	0.558	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/25/23 13:08	5/26/23 15:14		1.015	18.8	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/25/23 13:08	5/26/23 15:14		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/25/23 13:08	5/26/23 15:14		1	11.7	mg/L			
* Silicon, Dissolved	5/25/23 13:08	5/26/23 15:14		1.015	5.48	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/25/23 13:08	5/26/23 15:14		1.015	28.2	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/25/23 14:07	5/30/23 13:52		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	5/25/23 14:07	5/30/23 13:52		1.015	0.000389	mg/L	0.000112	0.000203	
* Aluminum, Total	5/25/23 14:07	5/30/23 13:52		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	5/25/23 14:07	5/30/23 13:52		1.015	0.0433	mg/L	0.000508	0.001015	
* Beryllium, Total	5/25/23 14:07	5/30/23 13:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/25/23 14:07	5/30/23 13:52		1.015	0.000190	mg/L	0.000068	0.000203	J
* Chromium, Total	5/25/23 14:07	5/30/23 13:52		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/25/23 14:07	5/30/23 13:52		1.015	0.0182	mg/L	0.000068	0.000203	
* Lead, Total	5/25/23 14:07	5/30/23 13:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/25/23 14:07	5/30/23 15:07		5.075	2.27	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-15

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 13:40  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09715

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 13:52		1.015	10.3	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 13:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/25/23 14:07	5/30/23 13:52		1.015	0.0000880	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 13:08	5/30/23 09:44		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 13:08	5/30/23 09:44		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/25/23 13:08	5/30/23 09:44		1.015	0.000402	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/25/23 13:08	5/30/23 09:44		1.015	0.0372	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 13:08	5/30/23 09:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 13:08	5/30/23 09:44		1.015	0.000184	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	5/25/23 13:08	5/30/23 09:44		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/25/23 13:08	5/30/23 09:44		1.015	0.0178	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/25/23 13:08	5/30/23 09:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/25/23 13:08	5/30/23 10:55		5.075	2.17	mg/L	0.000761	0.005075	
* Potassium, Dissolved	5/25/23 13:08	5/30/23 09:44		1.015	10.1	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 13:08	5/30/23 09:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/25/23 13:08	5/30/23 09:44		1.015	0.0000851	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/26/23 00:08		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 09:50	5/25/23 09:50		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/2/23 10:30	6/2/23 13:48		1	197	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:40	6/1/23 10:10		1	410	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	197	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 15:22	5/25/23 15:22		1	1.19	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-15

**Location Code:** WMWGREAP

**Collected:** 5/23/23 13:40

**Customer ID:**

**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09715

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 15:23	5/24/23 15:23		1	8.99	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 11:11	5/25/23 11:11		1	0.144	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 15:54	6/6/23 15:54		8	131	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/23/23 13:38	5/23/23 13:38			642.60	uS/cm			FA
pH	5/23/23 13:38	5/23/23 13:38			6.25	SU			FA
Temperature	5/23/23 13:38	5/23/23 13:38			18.63	C			FA
Turbidity	5/23/23 13:38	5/23/23 13:38			1.48	NTU			FA
Sulfide	5/23/23 13:38	5/23/23 13:38			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 13:40

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-15

**Laboratory ID Number:** BD09715

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD09719	Aluminum, Dissolved	mg/L	0.000260	0.0198	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0	
BD09719	Aluminum, Total	mg/L	0.00158	0.0198	0.100	0.113	0.112	0.107	0.0850 to 0.115	113	70.0 to 130	0.889	20.0	
BD09719	Antimony, Dissolved	mg/L	0.000333	0.00100	0.100	0.0958	0.0932	0.0929	0.0850 to 0.115	95.8	70.0 to 130	2.75	20.0	
BD09719	Antimony, Total	mg/L	0.000357	0.00100	0.100	0.109	0.110	0.109	0.0850 to 0.115	109	70.0 to 130	0.913	20.0	
BD09719	Arsenic, Dissolved	mg/L	0.0000224	0.000200	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0	
BD09719	Arsenic, Total	mg/L	0.0000110	0.000200	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0	
BD09719	Barium, Dissolved	mg/L	0.0000168	0.00100	0.100	0.135	0.131	0.0992	0.0850 to 0.115	103	70.0 to 130	3.01	20.0	
BD09719	Barium, Total	mg/L	0.0000264	0.00100	0.100	0.146	0.148	0.111	0.0850 to 0.115	110	70.0 to 130	1.36	20.0	
BD09719	Beryllium, Dissolved	mg/L	0.0000442	0.000880	0.100	0.116	0.0983	0.102	0.0850 to 0.115	116	70.0 to 130	16.5	20.0	
BD09719	Beryllium, Total	mg/L	0.0000350	0.000880	0.100	0.0996	0.0959	0.0929	0.0850 to 0.115	99.6	70.0 to 130	3.79	20.0	
BD09719	Boron, Dissolved	mg/L	0.00033	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0	
BD09719	Boron, Total	mg/L	0.000873	0.0650	1.00	1.05	1.05	1.05	0.850 to 1.15	105	70.0 to 130	0.00	20.0	
BD09719	Cadmium, Dissolved	mg/L	0.0000146	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0	
BD09719	Cadmium, Total	mg/L	-0.0000005	0.000147	0.100	0.111	0.108	0.111	0.0850 to 0.115	111	70.0 to 130	2.74	20.0	
BD09719	Calcium, Dissolved	mg/L	-0.000632	0.152	5.00	12.2	12.3	4.84	4.25 to 5.75	98.2	70.0 to 130	0.816	20.0	
BD09719	Calcium, Total	mg/L	0.0167	0.152	5.00	12.1	11.8	4.99	4.25 to 5.75	107	70.0 to 130	2.51	20.0	
BD09719	Chloride	mg/L	0.0154	1.00	10.0	17.3	17.3	9.82	9.00 to 11.0	98.6	80.0 to 120	0.00	20.0	
BD09719	Chromium, Dissolved	mg/L	-0.000038	0.000440	0.100	0.103	0.0995	0.0996	0.0850 to 0.115	103	70.0 to 130	3.46	20.0	
BD09719	Chromium, Total	mg/L	-0.0000577	0.000440	0.100	0.103	0.101	0.101	0.0850 to 0.115	103	70.0 to 130	1.96	20.0	
BD09719	Cobalt, Dissolved	mg/L	-0.000007	0.000147	0.100	0.0999	0.0977	0.0971	0.0850 to 0.115	99.3	70.0 to 130	2.23	20.0	
BD09719	Cobalt, Total	mg/L	-0.0000174	0.000147	0.100	0.101	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.00	20.0	
BD09719	Fluoride	mg/L	0.043	0.125	2.50	2.55	2.58	2.57	2.25 to 2.75	102	80.0 to 120	1.17	20.0	
BD09719	Iron, Dissolved	mg/L	0.00174	0.0176	0.2	0.215	0.216	0.205	0.170 to 0.230	101	70.0 to 130	0.464	20.0	
BD09719	Iron, Total	mg/L	0.00582	0.0176	0.2	0.220	0.220	0.211	0.170 to 0.230	101	70.0 to 130	0.00	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 13:40

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-15

**Laboratory ID Number:** BD09715

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09719	Lead, Dissolved	mg/L	0.000091	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BD09719	Lithium, Dissolved	mg/L	0.000878	0.0154	0.200	0.199	0.199	0.200	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD09719	Lithium, Total	mg/L	-0.00006	0.0154	0.200	0.200	0.206	0.197	0.170 to 0.230	100	70.0 to 130	2.96	20.0
BD09719	Magnesium, Dissolved	mg/L	0.00181	0.0462	5.00	6.33	6.30	4.89	4.25 to 5.75	98.4	70.0 to 130	0.475	20.0
BD09719	Magnesium, Total	mg/L	0.00974	0.0462	5.00	6.40	6.37	4.98	4.25 to 5.75	101	70.0 to 130	0.470	20.0
BD09719	Manganese, Dissolved	mg/L	-0.0000486	0.00033	0.100	0.115	0.112	0.104	0.0850 to 0.115	107	70.0 to 130	2.64	20.0
BD09719	Manganese, Total	mg/L	0.0000290	0.00033	0.100	0.116	0.116	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09719	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00355	0.00347	0.00387	0.00340 to 0.00460	88.8	70.0 to 130	2.28	20.0
BD09719	Molybdenum, Dissolved	mg/L	0.00195	0.0100	0.2	0.201	0.202	0.200	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09719	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.203	0.200	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0
BD09719	Potassium, Dissolved	mg/L	0.00726	0.367	10.0	11.6	11.3	10.3	8.50 to 11.5	104	70.0 to 130	2.62	20.0
BD09719	Potassium, Total	mg/L	0.0166	0.367	10.0	11.4	11.5	10.3	8.50 to 11.5	102	70.0 to 130	0.873	20.0
BD09719	Selenium, Dissolved	mg/L	0.000110	0.00100	0.100	0.103	0.105	0.108	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD09719	Silicon, Dissolved	mg/L	0.00119	0.0440	1.00	5.62	5.63	1.02	0.850 to 1.15	101	70.0 to 130	0.178	20.0
BD09719	Silicon, Total	mg/L	0.00262	0.0440	1.00	5.64	5.63	1.03	0.850 to 1.15	106	70.0 to 130	0.177	20.0
BD09719	Sodium, Dissolved	mg/L	-0.00593	0.0880	5.00	11.1	11.0	4.91	4.25 to 5.75	96.4	70.0 to 130	0.905	20.0
BD09719	Sodium, Total	mg/L	-0.000349	0.0880	5.00	11.3	11.5	4.92	4.25 to 5.75	100	70.0 to 130	1.75	20.0
BD09719	Sulfate	mg/L	-0.0419	2.0	20.0	22.4	22.4	19.1	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BD09719	Thallium, Dissolved	mg/L	-0.000001	0.000147	0.100	0.105	0.107	0.109	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD09719	Thallium, Total	mg/L	-0.0000082	0.000147	0.100	0.114	0.113	0.110	0.0850 to 0.115	114	70.0 to 130	0.881	20.0
BD09719	Total Organic Carbon	mg/L	0.0746	1.00	10.0	9.45	9.56	10.1		94.5	80.0 to 120	1.16	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 13:40

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-15

**Laboratory ID Number:** BD09715

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09715	Alkalinity	mg CaCO3/L					202	50.2	45.0 to 55.0			2.51	10.0
BD09719	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.69	0.624	1.96	1.80 to 2.20	103	90.0 to 110	0.482	15.0
BD09723	Solids, Dissolved	mg/L	1.00	25.0			426	53.0	40.0 to 60.0			0.468	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-32

**Location Code:** WMWGREAP  
**Collected:** 5/22/23 14:55  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09716

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	5/25/23 14:07	5/26/23 13:11		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/25/23 14:07	5/26/23 13:11		1.015	10.2	mg/L	0.070035	0.406		
* Iron, Total	5/25/23 14:07	5/26/23 13:11		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	5/25/23 14:07	5/26/23 13:11		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/25/23 14:07	5/26/23 13:11		1.015	0.727	mg/L	0.021315	0.406		
* Molybdenum, Total	5/25/23 14:07	5/26/23 13:11		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 13:11		1	11.6	mg/L				
* Silicon, Total	5/25/23 14:07	5/26/23 13:11		1.015	5.43	mg/L	0.02030	0.25375		
* Sodium, Total	5/25/23 14:07	5/26/23 13:11		1.015	4.09	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	5/25/23 13:08	5/26/23 15:17		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	5/25/23 13:08	5/26/23 15:17		1.015	10.3	mg/L	0.070035	0.406		
* Iron, Dissolved	5/25/23 13:08	5/26/23 15:17		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	5/25/23 13:08	5/26/23 15:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/25/23 13:08	5/26/23 15:17		1.015	0.734	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	5/25/23 13:08	5/26/23 15:17		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	5/25/23 13:08	5/26/23 15:17		1	11.8	mg/L				
* Silicon, Dissolved	5/25/23 13:08	5/26/23 15:17		1.015	5.50	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/25/23 13:08	5/26/23 15:17		1.015	4.05	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	5/25/23 14:07	5/30/23 13:55		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	5/25/23 14:07	5/30/23 13:55		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	5/25/23 14:07	5/30/23 13:55		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	5/25/23 14:07	5/30/23 13:55		1.015	0.0152	mg/L	0.000508	0.001015		
* Beryllium, Total	5/25/23 14:07	5/30/23 13:55		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/25/23 14:07	5/30/23 13:55		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	5/25/23 14:07	5/30/23 13:55		1.015	0.000355	mg/L	0.000203	0.001015	J	
* Cobalt, Total	5/25/23 14:07	5/30/23 13:55		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	5/25/23 14:07	5/30/23 13:55		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	5/25/23 14:07	5/30/23 13:55		1.015	0.000328	mg/L	0.000152	0.001015	J	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-32

**Location Code:** WMWGREAP  
**Collected:** 5/22/23 14:55  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09716

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 13:55		1.015	0.774	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 13:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/25/23 14:07	5/30/23 13:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 13:08	5/30/23 09:48		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 13:08	5/30/23 09:48		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/25/23 13:08	5/30/23 09:48		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	5/25/23 13:08	5/30/23 09:48		1.015	0.0136	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 13:08	5/30/23 09:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 13:08	5/30/23 09:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 13:08	5/30/23 09:48		1.015	0.000379	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/25/23 13:08	5/30/23 09:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/25/23 13:08	5/30/23 09:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/25/23 13:08	5/30/23 09:48		1.015	0.000220	mg/L	0.000152	0.001015	J
* Potassium, Dissolved	5/25/23 13:08	5/30/23 09:48		1.015	0.739	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 13:08	5/30/23 09:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/25/23 13:08	5/30/23 09:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/26/23 00:12		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 09:50	5/25/23 09:50		1	0.293	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/2/23 10:30	6/2/23 13:48		1	33.3	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:40	6/1/23 10:10		1	51.3	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	33.3	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 15:39	5/25/23 15:39		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-32

**Location Code:** WMWGREAP

**Collected:** 5/22/23 14:55

**Customer ID:**

**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09716

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 15:24	5/24/23 15:24		1	3.95	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 11:12	5/25/23 11:12		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 15:44	6/6/23 15:44		1	2.50	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	5/22/23 14:51	5/22/23 14:51			71.32	uS/cm			FA
pH	5/22/23 14:51	5/22/23 14:51			5.98	SU			FA
Temperature	5/22/23 14:51	5/22/23 14:51			20.40	C			FA
Turbidity	5/22/23 14:51	5/22/23 14:51			2.97	NTU			FA
Sulfide	5/22/23 14:51	5/22/23 14:51			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 14:55

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-32

**Laboratory ID Number:** BD09716

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09719	Aluminum, Dissolved	mg/L	0.000260	0.0198	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD09719	Aluminum, Total	mg/L	0.00158	0.0198	0.100	0.113	0.112	0.107	0.0850 to 0.115	113	70.0 to 130	0.889	20.0
BD09719	Antimony, Dissolved	mg/L	0.000333	0.00100	0.100	0.0958	0.0932	0.0929	0.0850 to 0.115	95.8	70.0 to 130	2.75	20.0
BD09719	Antimony, Total	mg/L	0.000357	0.00100	0.100	0.109	0.110	0.109	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BD09719	Arsenic, Dissolved	mg/L	0.0000224	0.000200	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09719	Arsenic, Total	mg/L	0.0000110	0.000200	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD09719	Barium, Dissolved	mg/L	0.0000168	0.00100	0.100	0.135	0.131	0.0992	0.0850 to 0.115	103	70.0 to 130	3.01	20.0
BD09719	Barium, Total	mg/L	0.0000264	0.00100	0.100	0.146	0.148	0.111	0.0850 to 0.115	110	70.0 to 130	1.36	20.0
BD09719	Beryllium, Dissolved	mg/L	0.0000442	0.000880	0.100	0.116	0.0983	0.102	0.0850 to 0.115	116	70.0 to 130	16.5	20.0
BD09719	Beryllium, Total	mg/L	0.0000350	0.000880	0.100	0.0996	0.0959	0.0929	0.0850 to 0.115	99.6	70.0 to 130	3.79	20.0
BD09719	Boron, Dissolved	mg/L	0.00033	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09719	Boron, Total	mg/L	0.000873	0.0650	1.00	1.05	1.05	1.05	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09719	Cadmium, Dissolved	mg/L	0.0000146	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09719	Cadmium, Total	mg/L	-0.0000005	0.000147	0.100	0.111	0.108	0.111	0.0850 to 0.115	111	70.0 to 130	2.74	20.0
BD09719	Calcium, Dissolved	mg/L	-0.000632	0.152	5.00	12.2	12.3	4.84	4.25 to 5.75	98.2	70.0 to 130	0.816	20.0
BD09719	Calcium, Total	mg/L	0.0167	0.152	5.00	12.1	11.8	4.99	4.25 to 5.75	107	70.0 to 130	2.51	20.0
BD09719	Chloride	mg/L	0.0154	1.00	10.0	17.3	17.3	9.82	9.00 to 11.0	98.6	80.0 to 120	0.00	20.0
BD09719	Chromium, Dissolved	mg/L	-0.000038	0.000440	0.100	0.103	0.0995	0.0996	0.0850 to 0.115	103	70.0 to 130	3.46	20.0
BD09719	Chromium, Total	mg/L	-0.0000577	0.000440	0.100	0.103	0.101	0.101	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD09719	Cobalt, Dissolved	mg/L	-0.000007	0.000147	0.100	0.0999	0.0977	0.0971	0.0850 to 0.115	99.3	70.0 to 130	2.23	20.0
BD09719	Cobalt, Total	mg/L	-0.0000174	0.000147	0.100	0.101	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD09719	Fluoride	mg/L	0.043	0.125	2.50	2.55	2.58	2.57	2.25 to 2.75	102	80.0 to 120	1.17	20.0
BD09719	Iron, Dissolved	mg/L	0.00174	0.0176	0.2	0.215	0.216	0.205	0.170 to 0.230	101	70.0 to 130	0.464	20.0
BD09719	Iron, Total	mg/L	0.00582	0.0176	0.2	0.220	0.220	0.211	0.170 to 0.230	101	70.0 to 130	0.00	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 14:55

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-32

**Laboratory ID Number:** BD09716

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09719	Lead, Dissolved	mg/L	0.000091	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BD09719	Lithium, Dissolved	mg/L	0.000878	0.0154	0.200	0.199	0.199	0.200	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD09719	Lithium, Total	mg/L	-0.00006	0.0154	0.200	0.200	0.206	0.197	0.170 to 0.230	100	70.0 to 130	2.96	20.0
BD09719	Magnesium, Dissolved	mg/L	0.00181	0.0462	5.00	6.33	6.30	4.89	4.25 to 5.75	98.4	70.0 to 130	0.475	20.0
BD09719	Magnesium, Total	mg/L	0.00974	0.0462	5.00	6.40	6.37	4.98	4.25 to 5.75	101	70.0 to 130	0.470	20.0
BD09719	Manganese, Dissolved	mg/L	-0.0000486	0.00033	0.100	0.115	0.112	0.104	0.0850 to 0.115	107	70.0 to 130	2.64	20.0
BD09719	Manganese, Total	mg/L	0.0000290	0.00033	0.100	0.116	0.116	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09719	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00355	0.00347	0.00387	0.00340 to 0.00460	88.8	70.0 to 130	2.28	20.0
BD09719	Molybdenum, Dissolved	mg/L	0.00195	0.0100	0.2	0.201	0.202	0.200	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09719	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.203	0.200	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0
BD09719	Potassium, Dissolved	mg/L	0.00726	0.367	10.0	11.6	11.3	10.3	8.50 to 11.5	104	70.0 to 130	2.62	20.0
BD09719	Potassium, Total	mg/L	0.0166	0.367	10.0	11.4	11.5	10.3	8.50 to 11.5	102	70.0 to 130	0.873	20.0
BD09719	Selenium, Dissolved	mg/L	0.000110	0.00100	0.100	0.103	0.105	0.108	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD09719	Silicon, Dissolved	mg/L	0.00119	0.0440	1.00	5.62	5.63	1.02	0.850 to 1.15	101	70.0 to 130	0.178	20.0
BD09719	Silicon, Total	mg/L	0.00262	0.0440	1.00	5.64	5.63	1.03	0.850 to 1.15	106	70.0 to 130	0.177	20.0
BD09719	Sodium, Dissolved	mg/L	-0.00593	0.0880	5.00	11.1	11.0	4.91	4.25 to 5.75	96.4	70.0 to 130	0.905	20.0
BD09719	Sodium, Total	mg/L	-0.000349	0.0880	5.00	11.3	11.5	4.92	4.25 to 5.75	100	70.0 to 130	1.75	20.0
BD09719	Sulfate	mg/L	-0.0419	2.0	20.0	22.4	22.4	19.1	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BD09719	Thallium, Dissolved	mg/L	-0.000001	0.000147	0.100	0.105	0.107	0.109	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD09719	Thallium, Total	mg/L	-0.0000082	0.000147	0.100	0.114	0.113	0.110	0.0850 to 0.115	114	70.0 to 130	0.881	20.0
BD09719	Total Organic Carbon	mg/L	0.0746	1.00	10.0	9.45	9.56	10.1		94.5	80.0 to 120	1.16	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 14:55

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-32

**Laboratory ID Number:** BD09716

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD09715	Alkalinity	mg CaCO3/L					202	50.2	45.0 to 55.0			2.51	10.0
BD09719	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.69	0.624	1.96	1.80 to 2.20	103	90.0 to 110	0.482	15.0
BD09723	Solids, Dissolved	mg/L	1.00	25.0			426	53.0	40.0 to 60.0			0.468	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-33

**Location Code:** WMWGREAP  
**Collected:** 5/22/23 15:43  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09717

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	5/25/23 14:07	5/26/23 13:14		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/25/23 14:07	5/26/23 13:14		1.015	2.52	mg/L	0.070035	0.406		
* Iron, Total	5/25/23 14:07	5/26/23 13:14		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	5/25/23 14:07	5/26/23 13:14		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/25/23 14:07	5/26/23 13:14		1.015	3.53	mg/L	0.021315	0.406		
* Molybdenum, Total	5/25/23 14:07	5/26/23 13:14		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 13:14		1	6.70	mg/L				
* Silicon, Total	5/25/23 14:07	5/26/23 13:14		1.015	3.13	mg/L	0.02030	0.25375		
* Sodium, Total	5/25/23 14:07	5/26/23 13:14		1.015	6.95	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	5/25/23 13:08	5/26/23 15:21		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	5/25/23 13:08	5/26/23 15:21		1.015	2.52	mg/L	0.070035	0.406		
* Iron, Dissolved	5/25/23 13:08	5/26/23 15:21		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	5/25/23 13:08	5/26/23 15:21		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/25/23 13:08	5/26/23 15:21		1.015	3.47	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	5/25/23 13:08	5/26/23 15:21		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	5/25/23 13:08	5/26/23 15:21		1	6.74	mg/L				
* Silicon, Dissolved	5/25/23 13:08	5/26/23 15:21		1.015	3.15	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/25/23 13:08	5/26/23 15:21		1.015	6.77	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	5/25/23 14:07	5/30/23 13:59		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Arsenic, Total	5/25/23 14:07	5/30/23 13:59		1.015	0.000242	mg/L	0.000112	0.000203		
* Aluminum, Total	5/25/23 14:07	5/30/23 13:59		1.015	0.240	mg/L	0.009135	0.05075		
* Barium, Total	5/25/23 14:07	5/30/23 13:59		1.015	0.102	mg/L	0.000508	0.001015		
* Beryllium, Total	5/25/23 14:07	5/30/23 13:59		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/25/23 14:07	5/30/23 13:59		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	5/25/23 14:07	5/30/23 13:59		1.015	0.000477	mg/L	0.000203	0.001015	J	
* Cobalt, Total	5/25/23 14:07	5/30/23 13:59		1.015	0.00117	mg/L	0.000068	0.000203		
* Lead, Total	5/25/23 14:07	5/30/23 13:59		1.015	0.000193	mg/L	0.000068	0.000203	J	
* Manganese, Total	5/25/23 14:07	5/30/23 13:59		1.015	0.0204	mg/L	0.000152	0.001015		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-33

**Location Code:** WMWGREAP  
**Collected:** 5/22/23 15:43  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09717

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 13:59		1.015	4.84	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 13:59		1.015	0.000941	mg/L	0.000508	0.001015	J
* Thallium, Total	5/25/23 14:07	5/30/23 13:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 13:08	5/30/23 09:51		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 13:08	5/30/23 09:51		1.015	0.228	mg/L	0.009135	0.05075	
* Arsenic, Dissolved	5/25/23 13:08	5/30/23 09:51		1.015	0.000203	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/25/23 13:08	5/30/23 09:51		1.015	0.0900	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 13:08	5/30/23 09:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 13:08	5/30/23 09:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 13:08	5/30/23 09:51		1.015	0.000240	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/25/23 13:08	5/30/23 09:51		1.015	0.00115	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/25/23 13:08	5/30/23 09:51		1.015	0.000195	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	5/25/23 13:08	5/30/23 09:51		1.015	0.0190	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/25/23 13:08	5/30/23 09:51		1.015	4.61	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 13:08	5/30/23 09:51		1.015	0.00106	mg/L	0.000508	0.001015	
* Thallium, Dissolved	5/25/23 13:08	5/30/23 09:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/26/23 00:16		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 09:51	5/25/23 09:51		1	4.27	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/2/23 10:30	6/2/23 13:48		1	0.46	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:40	6/1/23 10:10		1	66.0	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	Not Detected	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 15:54	5/25/23 15:54		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-33

**Location Code:** WMWGREAP

**Collected:** 5/22/23 15:43

**Customer ID:**

**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09717

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 15:25	5/24/23 15:25		1	4.53	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 11:13	5/25/23 11:13		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 15:45	6/6/23 15:45		1	15.5	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	5/22/23 15:40	5/22/23 15:40			102.90	uS/cm			FA
pH	5/22/23 15:40	5/22/23 15:40			4.58	SU			FA
Temperature	5/22/23 15:40	5/22/23 15:40			18.86	C			FA
Turbidity	5/22/23 15:40	5/22/23 15:40			2.17	NTU			FA
Sulfide	5/22/23 15:40	5/22/23 15:40			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 15:43

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-33

**Laboratory ID Number:** BD09717

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09719	Aluminum, Dissolved	mg/L	0.000260	0.0198	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0
BD09719	Aluminum, Total	mg/L	0.00158	0.0198	0.100	0.113	0.112	0.107	0.0850 to 0.115	113	70.0 to 130	0.889	20.0
BD09719	Antimony, Dissolved	mg/L	0.000333	0.00100	0.100	0.0958	0.0932	0.0929	0.0850 to 0.115	95.8	70.0 to 130	2.75	20.0
BD09719	Antimony, Total	mg/L	0.000357	0.00100	0.100	0.109	0.110	0.109	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BD09719	Arsenic, Dissolved	mg/L	0.0000224	0.000200	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09719	Arsenic, Total	mg/L	0.0000110	0.000200	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BD09719	Barium, Dissolved	mg/L	0.0000168	0.00100	0.100	0.135	0.131	0.0992	0.0850 to 0.115	103	70.0 to 130	3.01	20.0
BD09719	Barium, Total	mg/L	0.0000264	0.00100	0.100	0.146	0.148	0.111	0.0850 to 0.115	110	70.0 to 130	1.36	20.0
BD09719	Beryllium, Dissolved	mg/L	0.0000442	0.000880	0.100	0.116	0.0983	0.102	0.0850 to 0.115	116	70.0 to 130	16.5	20.0
BD09719	Beryllium, Total	mg/L	0.0000350	0.000880	0.100	0.0996	0.0959	0.0929	0.0850 to 0.115	99.6	70.0 to 130	3.79	20.0
BD09719	Boron, Dissolved	mg/L	0.00033	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09719	Boron, Total	mg/L	0.000873	0.0650	1.00	1.05	1.05	1.05	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09719	Cadmium, Dissolved	mg/L	0.0000146	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09719	Cadmium, Total	mg/L	-0.0000005	0.000147	0.100	0.111	0.108	0.111	0.0850 to 0.115	111	70.0 to 130	2.74	20.0
BD09719	Calcium, Dissolved	mg/L	-0.000632	0.152	5.00	12.2	12.3	4.84	4.25 to 5.75	98.2	70.0 to 130	0.816	20.0
BD09719	Calcium, Total	mg/L	0.0167	0.152	5.00	12.1	11.8	4.99	4.25 to 5.75	107	70.0 to 130	2.51	20.0
BD09719	Chloride	mg/L	0.0154	1.00	10.0	17.3	17.3	9.82	9.00 to 11.0	98.6	80.0 to 120	0.00	20.0
BD09719	Chromium, Dissolved	mg/L	-0.000038	0.000440	0.100	0.103	0.0995	0.0996	0.0850 to 0.115	103	70.0 to 130	3.46	20.0
BD09719	Chromium, Total	mg/L	-0.0000577	0.000440	0.100	0.103	0.101	0.101	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD09719	Cobalt, Dissolved	mg/L	-0.000007	0.000147	0.100	0.0999	0.0977	0.0971	0.0850 to 0.115	99.3	70.0 to 130	2.23	20.0
BD09719	Cobalt, Total	mg/L	-0.0000174	0.000147	0.100	0.101	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD09719	Fluoride	mg/L	0.043	0.125	2.50	2.55	2.58	2.57	2.25 to 2.75	102	80.0 to 120	1.17	20.0
BD09719	Iron, Dissolved	mg/L	0.00174	0.0176	0.2	0.215	0.216	0.205	0.170 to 0.230	101	70.0 to 130	0.464	20.0
BD09719	Iron, Total	mg/L	0.00582	0.0176	0.2	0.220	0.220	0.211	0.170 to 0.230	101	70.0 to 130	0.00	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 15:43

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-33

**Laboratory ID Number:** BD09717

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09719	Lead, Dissolved	mg/L	0.0000091	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BD09719	Lithium, Dissolved	mg/L	0.000878	0.0154	0.200	0.199	0.199	0.200	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD09719	Lithium, Total	mg/L	-0.00006	0.0154	0.200	0.200	0.206	0.197	0.170 to 0.230	100	70.0 to 130	2.96	20.0
BD09719	Magnesium, Dissolved	mg/L	0.00181	0.0462	5.00	6.33	6.30	4.89	4.25 to 5.75	98.4	70.0 to 130	0.475	20.0
BD09719	Magnesium, Total	mg/L	0.00974	0.0462	5.00	6.40	6.37	4.98	4.25 to 5.75	101	70.0 to 130	0.470	20.0
BD09719	Manganese, Dissolved	mg/L	-0.0000486	0.00033	0.100	0.115	0.112	0.104	0.0850 to 0.115	107	70.0 to 130	2.64	20.0
BD09719	Manganese, Total	mg/L	0.0000290	0.00033	0.100	0.116	0.116	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09719	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00355	0.00347	0.00387	0.00340 to 0.00460	88.8	70.0 to 130	2.28	20.0
BD09719	Molybdenum, Dissolved	mg/L	0.00195	0.0100	0.2	0.201	0.202	0.200	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09719	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.203	0.200	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0
BD09719	Potassium, Dissolved	mg/L	0.00726	0.367	10.0	11.6	11.3	10.3	8.50 to 11.5	104	70.0 to 130	2.62	20.0
BD09719	Potassium, Total	mg/L	0.0166	0.367	10.0	11.4	11.5	10.3	8.50 to 11.5	102	70.0 to 130	0.873	20.0
BD09719	Selenium, Dissolved	mg/L	0.000110	0.00100	0.100	0.103	0.105	0.108	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD09719	Silicon, Dissolved	mg/L	0.00119	0.0440	1.00	5.62	5.63	1.02	0.850 to 1.15	101	70.0 to 130	0.178	20.0
BD09719	Silicon, Total	mg/L	0.00262	0.0440	1.00	5.64	5.63	1.03	0.850 to 1.15	106	70.0 to 130	0.177	20.0
BD09719	Sodium, Dissolved	mg/L	-0.00593	0.0880	5.00	11.1	11.0	4.91	4.25 to 5.75	96.4	70.0 to 130	0.905	20.0
BD09719	Sodium, Total	mg/L	-0.000349	0.0880	5.00	11.3	11.5	4.92	4.25 to 5.75	100	70.0 to 130	1.75	20.0
BD09719	Sulfate	mg/L	-0.0419	2.0	20.0	22.4	22.4	19.1	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BD09719	Thallium, Dissolved	mg/L	-0.000001	0.000147	0.100	0.105	0.107	0.109	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD09719	Thallium, Total	mg/L	-0.0000082	0.000147	0.100	0.114	0.113	0.110	0.0850 to 0.115	114	70.0 to 130	0.881	20.0
BD09719	Total Organic Carbon	mg/L	0.0746	1.00	10.0	9.45	9.56	10.1		94.5	80.0 to 120	1.16	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 15:43

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-33

**Laboratory ID Number:** BD09717

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09715	Alkalinity	mg CaCO3/L					202	50.2	45.0 to 55.0			2.51	10.0
BD09719	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.69	0.624	1.96	1.80 to 2.20	103	90.0 to 110	0.482	15.0
BD09723	Solids, Dissolved	mg/L	1.00	25.0			426	53.0	40.0 to 60.0			0.468	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-33 Dup

**Location Code:** WMWGREAP  
**Collected:** 5/22/23 15:43  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09718

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	5/25/23 14:07	5/26/23 13:17		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/25/23 14:07	5/26/23 13:17		1.015	2.46	mg/L	0.070035	0.406		
* Iron, Total	5/25/23 14:07	5/26/23 13:17		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	5/25/23 14:07	5/26/23 13:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/25/23 14:07	5/26/23 13:17		1.015	3.50	mg/L	0.021315	0.406		
* Molybdenum, Total	5/25/23 14:07	5/26/23 13:17		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 13:17		1	6.72	mg/L				
* Silicon, Total	5/25/23 14:07	5/26/23 13:17		1.015	3.14	mg/L	0.02030	0.25375		
* Sodium, Total	5/25/23 14:07	5/26/23 13:17		1.015	6.98	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	5/25/23 13:08	5/26/23 15:24		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	5/25/23 13:08	5/26/23 15:24		1.015	2.51	mg/L	0.070035	0.406		
* Iron, Dissolved	5/25/23 13:08	5/26/23 15:24		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	5/25/23 13:08	5/26/23 15:24		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/25/23 13:08	5/26/23 15:24		1.015	3.51	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	5/25/23 13:08	5/26/23 15:24		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	5/25/23 13:08	5/26/23 15:24		1	6.81	mg/L				
* Silicon, Dissolved	5/25/23 13:08	5/26/23 15:24		1.015	3.18	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/25/23 13:08	5/26/23 15:24		1.015	6.81	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	5/25/23 14:07	5/30/23 14:03		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	5/25/23 14:07	5/30/23 14:03		1.015	0.238	mg/L	0.009135	0.05075		
* Arsenic, Total	5/25/23 14:07	5/30/23 14:03		1.015	0.000214	mg/L	0.000112	0.000203		
* Barium, Total	5/25/23 14:07	5/30/23 14:03		1.015	0.0992	mg/L	0.000508	0.001015		
* Beryllium, Total	5/25/23 14:07	5/30/23 14:03		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/25/23 14:07	5/30/23 14:03		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	5/25/23 14:07	5/30/23 14:03		1.015	0.000358	mg/L	0.000203	0.001015	J	
* Cobalt, Total	5/25/23 14:07	5/30/23 14:03		1.015	0.00118	mg/L	0.000068	0.000203		
* Lead, Total	5/25/23 14:07	5/30/23 14:03		1.015	0.000202	mg/L	0.000068	0.000203	J	
* Manganese, Total	5/25/23 14:07	5/30/23 14:03		1.015	0.0198	mg/L	0.000152	0.001015		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-33 Dup

**Location Code:** WMWGREAP  
**Collected:** 5/22/23 15:43  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09718

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 14:03		1.015	4.73	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 14:03		1.015	0.00107	mg/L	0.000508	0.001015	
* Thallium, Total	5/25/23 14:07	5/30/23 14:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 13:08	5/30/23 09:55		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 13:08	5/30/23 09:55		1.015	0.237	mg/L	0.009135	0.05075	
* Arsenic, Dissolved	5/25/23 13:08	5/30/23 09:55		1.015	0.000180	mg/L	0.000112	0.000203	J
* Barium, Dissolved	5/25/23 13:08	5/30/23 09:55		1.015	0.0882	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 13:08	5/30/23 09:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 13:08	5/30/23 09:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 13:08	5/30/23 09:55		1.015	0.000279	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/25/23 13:08	5/30/23 09:55		1.015	0.00115	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/25/23 13:08	5/30/23 09:55		1.015	0.000183	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	5/25/23 13:08	5/30/23 09:55		1.015	0.0192	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/25/23 13:08	5/30/23 09:55		1.015	4.64	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 13:08	5/30/23 09:55		1.015	0.00110	mg/L	0.000508	0.001015	
* Thallium, Dissolved	5/25/23 13:08	5/30/23 09:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/26/23 00:20		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 09:52	5/25/23 09:52		1	4.32	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/2/23 10:30	6/2/23 13:48		1	0.30	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:40	6/1/23 10:10		1	60.7	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	Not Detected	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 16:11	5/25/23 16:11		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-33 Dup

**Location Code:** WMWGREAP

**Collected:** 5/22/23 15:43

**Customer ID:**

**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09718

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 15:26	5/24/23 15:26		1	4.52	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 11:14	5/25/23 11:14		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 15:46	6/6/23 15:46		1	15.7	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	5/22/23 15:40	5/22/23 15:40			102.90	uS/cm			FA
pH	5/22/23 15:40	5/22/23 15:40			4.58	SU			FA
Temperature	5/22/23 15:40	5/22/23 15:40			18.86	C			FA
Turbidity	5/22/23 15:40	5/22/23 15:40			2.17	NTU			FA
Sulfide	5/22/23 15:40	5/22/23 15:40			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 5/22/23 15:43  
**Customer ID:**  
**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-33 Dup

**Laboratory ID Number:** BD09718

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec		
BD09719	Aluminum, Dissolved	mg/L	0.000260	0.0198	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0	
BD09719	Aluminum, Total	mg/L	0.00158	0.0198	0.100	0.113	0.112	0.107	0.0850 to 0.115	113	70.0 to 130	0.889	20.0	
BD09719	Antimony, Dissolved	mg/L	0.000333	0.00100	0.100	0.0958	0.0932	0.0929	0.0850 to 0.115	95.8	70.0 to 130	2.75	20.0	
BD09719	Antimony, Total	mg/L	0.000357	0.00100	0.100	0.109	0.110	0.109	0.0850 to 0.115	109	70.0 to 130	0.913	20.0	
BD09719	Arsenic, Dissolved	mg/L	0.0000224	0.000200	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0	
BD09719	Arsenic, Total	mg/L	0.0000110	0.000200	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0	
BD09719	Barium, Dissolved	mg/L	0.0000168	0.00100	0.100	0.135	0.131	0.0992	0.0850 to 0.115	103	70.0 to 130	3.01	20.0	
BD09719	Barium, Total	mg/L	0.0000264	0.00100	0.100	0.146	0.148	0.111	0.0850 to 0.115	110	70.0 to 130	1.36	20.0	
BD09719	Beryllium, Dissolved	mg/L	0.0000442	0.000880	0.100	0.116	0.0983	0.102	0.0850 to 0.115	116	70.0 to 130	16.5	20.0	
BD09719	Beryllium, Total	mg/L	0.0000350	0.000880	0.100	0.0996	0.0959	0.0929	0.0850 to 0.115	99.6	70.0 to 130	3.79	20.0	
BD09719	Boron, Dissolved	mg/L	0.00033	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0	
BD09719	Boron, Total	mg/L	0.000873	0.0650	1.00	1.05	1.05	1.05	0.850 to 1.15	105	70.0 to 130	0.00	20.0	
BD09719	Cadmium, Dissolved	mg/L	0.0000146	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0	
BD09719	Cadmium, Total	mg/L	-0.0000005	0.000147	0.100	0.111	0.108	0.111	0.0850 to 0.115	111	70.0 to 130	2.74	20.0	
BD09719	Calcium, Dissolved	mg/L	-0.000632	0.152	5.00	12.2	12.3	4.84	4.25 to 5.75	98.2	70.0 to 130	0.816	20.0	
BD09719	Calcium, Total	mg/L	0.0167	0.152	5.00	12.1	11.8	4.99	4.25 to 5.75	107	70.0 to 130	2.51	20.0	
BD09719	Chloride	mg/L	0.0154	1.00	10.0	17.3	17.3	9.82	9.00 to 11.0	98.6	80.0 to 120	0.00	20.0	
BD09719	Chromium, Dissolved	mg/L	-0.000038	0.000440	0.100	0.103	0.0995	0.0996	0.0850 to 0.115	103	70.0 to 130	3.46	20.0	
BD09719	Chromium, Total	mg/L	-0.0000577	0.000440	0.100	0.103	0.101	0.101	0.0850 to 0.115	103	70.0 to 130	1.96	20.0	
BD09719	Cobalt, Dissolved	mg/L	-0.000007	0.000147	0.100	0.0999	0.0977	0.0971	0.0850 to 0.115	99.3	70.0 to 130	2.23	20.0	
BD09719	Cobalt, Total	mg/L	-0.0000174	0.000147	0.100	0.101	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.00	20.0	
BD09719	Fluoride	mg/L	0.043	0.125	2.50	2.55	2.58	2.57	2.25 to 2.75	102	80.0 to 120	1.17	20.0	
BD09719	Iron, Dissolved	mg/L	0.00174	0.0176	0.2	0.215	0.216	0.205	0.170 to 0.230	101	70.0 to 130	0.464	20.0	
BD09719	Iron, Total	mg/L	0.00582	0.0176	0.2	0.220	0.220	0.211	0.170 to 0.230	101	70.0 to 130	0.00	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 15:43

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-33 Dup

**Laboratory ID Number:** BD09718

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09719	Lead, Dissolved	mg/L	0.000091	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BD09719	Lithium, Dissolved	mg/L	0.000878	0.0154	0.200	0.199	0.199	0.200	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD09719	Lithium, Total	mg/L	-0.00006	0.0154	0.200	0.200	0.206	0.197	0.170 to 0.230	100	70.0 to 130	2.96	20.0
BD09719	Magnesium, Dissolved	mg/L	0.00181	0.0462	5.00	6.33	6.30	4.89	4.25 to 5.75	98.4	70.0 to 130	0.475	20.0
BD09719	Magnesium, Total	mg/L	0.00974	0.0462	5.00	6.40	6.37	4.98	4.25 to 5.75	101	70.0 to 130	0.470	20.0
BD09719	Manganese, Dissolved	mg/L	-0.0000486	0.00033	0.100	0.115	0.112	0.104	0.0850 to 0.115	107	70.0 to 130	2.64	20.0
BD09719	Manganese, Total	mg/L	0.0000290	0.00033	0.100	0.116	0.116	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09719	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00355	0.00347	0.00387	0.00340 to 0.00460	88.8	70.0 to 130	2.28	20.0
BD09719	Molybdenum, Dissolved	mg/L	0.00195	0.0100	0.2	0.201	0.202	0.200	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09719	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.203	0.200	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0
BD09719	Potassium, Dissolved	mg/L	0.00726	0.367	10.0	11.6	11.3	10.3	8.50 to 11.5	104	70.0 to 130	2.62	20.0
BD09719	Potassium, Total	mg/L	0.0166	0.367	10.0	11.4	11.5	10.3	8.50 to 11.5	102	70.0 to 130	0.873	20.0
BD09719	Selenium, Dissolved	mg/L	0.000110	0.00100	0.100	0.103	0.105	0.108	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD09719	Silicon, Dissolved	mg/L	0.00119	0.0440	1.00	5.62	5.63	1.02	0.850 to 1.15	101	70.0 to 130	0.178	20.0
BD09719	Silicon, Total	mg/L	0.00262	0.0440	1.00	5.64	5.63	1.03	0.850 to 1.15	106	70.0 to 130	0.177	20.0
BD09719	Sodium, Dissolved	mg/L	-0.00593	0.0880	5.00	11.1	11.0	4.91	4.25 to 5.75	96.4	70.0 to 130	0.905	20.0
BD09719	Sodium, Total	mg/L	-0.000349	0.0880	5.00	11.3	11.5	4.92	4.25 to 5.75	100	70.0 to 130	1.75	20.0
BD09719	Sulfate	mg/L	-0.0419	2.0	20.0	22.4	22.4	19.1	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BD09719	Thallium, Dissolved	mg/L	-0.000001	0.000147	0.100	0.105	0.107	0.109	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD09719	Thallium, Total	mg/L	-0.0000082	0.000147	0.100	0.114	0.113	0.110	0.0850 to 0.115	114	70.0 to 130	0.881	20.0
BD09719	Total Organic Carbon	mg/L	0.0746	1.00	10.0	9.45	9.56	10.1		94.5	80.0 to 120	1.16	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 15:43

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-33 Dup

**Laboratory ID Number:** BD09718

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09715	Alkalinity	mg CaCO3/L					202	50.2	45.0 to 55.0			2.51	10.0
BD09719	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.69	0.624	1.96	1.80 to 2.20	103	90.0 to 110	0.482	15.0
BD09723	Solids, Dissolved	mg/L	1.00	25.0			426	53.0	40.0 to 60.0			0.468	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-31

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 09:27  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09719

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/25/23 14:07	5/26/23 13:20		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/25/23 14:07	5/26/23 13:20		1.015	6.75	mg/L	0.070035	0.406	
* Iron, Total	5/25/23 14:07	5/26/23 13:20		1.015	0.0171	mg/L	0.008120	0.0406	J
* Lithium, Total	5/25/23 14:07	5/26/23 13:20		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/25/23 14:07	5/26/23 13:20		1.015	1.37	mg/L	0.021315	0.406	
* Molybdenum, Total	5/25/23 14:07	5/26/23 13:20		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 13:20		1	9.80	mg/L			
* Silicon, Total	5/25/23 14:07	5/26/23 13:20		1.015	4.58	mg/L	0.02030	0.25375	
* Sodium, Total	5/25/23 14:07	5/26/23 13:20		1.015	6.30	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>						
* Boron, Dissolved	5/25/23 13:08	5/26/23 15:27		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	5/25/23 13:08	5/26/23 15:27		1.015	7.29	mg/L	0.070035	0.406	
* Iron, Dissolved	5/25/23 13:08	5/26/23 15:27		1.015	0.0123	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	5/25/23 13:08	5/26/23 15:27		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/25/23 13:08	5/26/23 15:27		1.015	1.41	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/25/23 13:08	5/26/23 15:27		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/25/23 13:08	5/26/23 15:27		1	9.87	mg/L			
* Silicon, Dissolved	5/25/23 13:08	5/26/23 15:27		1.015	4.61	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/25/23 13:08	5/26/23 15:27		1.015	6.28	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/25/23 14:07	5/30/23 14:06		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	5/25/23 14:07	5/30/23 14:06		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	5/25/23 14:07	5/30/23 14:06		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	5/25/23 14:07	5/30/23 14:06		1.015	0.0361	mg/L	0.000508	0.001015	
* Beryllium, Total	5/25/23 14:07	5/30/23 14:06		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/25/23 14:07	5/30/23 14:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/25/23 14:07	5/30/23 14:06		1.015	0.000293	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/25/23 14:07	5/30/23 14:06		1.015	0.000627	mg/L	0.000068	0.000203	
* Lead, Total	5/25/23 14:07	5/30/23 14:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/25/23 14:07	5/30/23 14:06		1.015	0.00848	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-31

**Location Code:** WMWGREAP

**Collected:** 5/23/23 09:27

**Customer ID:**

**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09719

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 14:06		1.015	1.17	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 14:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/25/23 14:07	5/30/23 14:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 13:08	5/30/23 09:58		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 13:08	5/30/23 09:58		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/25/23 13:08	5/30/23 09:58		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	5/25/23 13:08	5/30/23 09:58		1.015	0.0317	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 13:08	5/30/23 09:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 13:08	5/30/23 09:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 13:08	5/30/23 09:58		1.015	0.000228	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/25/23 13:08	5/30/23 09:58		1.015	0.000648	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/25/23 13:08	5/30/23 09:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/25/23 13:08	5/30/23 09:58		1.015	0.00829	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/25/23 13:08	5/30/23 09:58		1.015	1.17	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 13:08	5/30/23 09:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/25/23 13:08	5/30/23 09:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/26/23 00:24		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 09:53	5/25/23 09:53		1	0.621	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/2/23 10:30	6/2/23 13:48		1	24.5	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:40	6/1/23 10:10		1	47.3	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	24.5	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 16:23	5/25/23 16:23		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-31

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 09:27  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09719

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 15:27	5/24/23 15:27		1	7.44	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 11:16	5/25/23 11:16		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 15:48	6/6/23 15:48		1	3.00	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	5/23/23 09:25	5/23/23 09:25			73.71	uS/cm			FA
pH	5/23/23 09:25	5/23/23 09:25			5.67	SU			FA
Temperature	5/23/23 09:25	5/23/23 09:25			17.60	C			FA
Turbidity	5/23/23 09:25	5/23/23 09:25			1.81	NTU			FA
Sulfide	5/23/23 09:25	5/23/23 09:25			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 09:27

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-31

**Laboratory ID Number:** BD09719

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec		
BD09719	Aluminum, Dissolved	mg/L	0.000260	0.0198	0.100	0.109	0.106	0.104	0.0850 to 0.115	109	70.0 to 130	2.79	20.0	
BD09719	Aluminum, Total	mg/L	0.00158	0.0198	0.100	0.113	0.112	0.107	0.0850 to 0.115	113	70.0 to 130	0.889	20.0	
BD09719	Antimony, Dissolved	mg/L	0.000333	0.00100	0.100	0.0958	0.0932	0.0929	0.0850 to 0.115	95.8	70.0 to 130	2.75	20.0	
BD09719	Antimony, Total	mg/L	0.000357	0.00100	0.100	0.109	0.110	0.109	0.0850 to 0.115	109	70.0 to 130	0.913	20.0	
BD09719	Arsenic, Dissolved	mg/L	0.0000224	0.000200	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0	
BD09719	Arsenic, Total	mg/L	0.0000110	0.000200	0.100	0.107	0.105	0.104	0.0850 to 0.115	107	70.0 to 130	1.89	20.0	
BD09719	Barium, Dissolved	mg/L	0.0000168	0.00100	0.100	0.135	0.131	0.0992	0.0850 to 0.115	103	70.0 to 130	3.01	20.0	
BD09719	Barium, Total	mg/L	0.0000264	0.00100	0.100	0.146	0.148	0.111	0.0850 to 0.115	110	70.0 to 130	1.36	20.0	
BD09719	Beryllium, Dissolved	mg/L	0.0000442	0.000880	0.100	0.116	0.0983	0.102	0.0850 to 0.115	116	70.0 to 130	16.5	20.0	
BD09719	Beryllium, Total	mg/L	0.0000350	0.000880	0.100	0.0996	0.0959	0.0929	0.0850 to 0.115	99.6	70.0 to 130	3.79	20.0	
BD09719	Boron, Dissolved	mg/L	0.00033	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0	
BD09719	Boron, Total	mg/L	0.000873	0.0650	1.00	1.05	1.05	1.05	0.850 to 1.15	105	70.0 to 130	0.00	20.0	
BD09719	Cadmium, Dissolved	mg/L	0.0000146	0.000147	0.100	0.104	0.104	0.107	0.0850 to 0.115	104	70.0 to 130	0.00	20.0	
BD09719	Cadmium, Total	mg/L	-0.0000005	0.000147	0.100	0.111	0.108	0.111	0.0850 to 0.115	111	70.0 to 130	2.74	20.0	
BD09719	Calcium, Dissolved	mg/L	-0.000632	0.152	5.00	12.2	12.3	4.84	4.25 to 5.75	98.2	70.0 to 130	0.816	20.0	
BD09719	Calcium, Total	mg/L	0.0167	0.152	5.00	12.1	11.8	4.99	4.25 to 5.75	107	70.0 to 130	2.51	20.0	
BD09719	Chloride	mg/L	0.0154	1.00	10.0	17.3	17.3	9.82	9.00 to 11.0	98.6	80.0 to 120	0.00	20.0	
BD09719	Chromium, Dissolved	mg/L	-0.000038	0.000440	0.100	0.103	0.0995	0.0996	0.0850 to 0.115	103	70.0 to 130	3.46	20.0	
BD09719	Chromium, Total	mg/L	-0.0000577	0.000440	0.100	0.103	0.101	0.101	0.0850 to 0.115	103	70.0 to 130	1.96	20.0	
BD09719	Cobalt, Dissolved	mg/L	-0.000007	0.000147	0.100	0.0999	0.0977	0.0971	0.0850 to 0.115	99.3	70.0 to 130	2.23	20.0	
BD09719	Cobalt, Total	mg/L	-0.0000174	0.000147	0.100	0.101	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.00	20.0	
BD09719	Fluoride	mg/L	0.043	0.125	2.50	2.55	2.58	2.57	2.25 to 2.75	102	80.0 to 120	1.17	20.0	
BD09719	Iron, Dissolved	mg/L	0.00174	0.0176	0.2	0.215	0.216	0.205	0.170 to 0.230	101	70.0 to 130	0.464	20.0	
BD09719	Iron, Total	mg/L	0.00582	0.0176	0.2	0.220	0.220	0.211	0.170 to 0.230	101	70.0 to 130	0.00	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 09:27

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-31

**Laboratory ID Number:** BD09719

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09719	Lead, Dissolved	mg/L	0.000091	0.000147	0.100	0.103	0.105	0.106	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BD09719	Lithium, Dissolved	mg/L	0.000878	0.0154	0.200	0.199	0.199	0.200	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD09719	Lithium, Total	mg/L	-0.00006	0.0154	0.200	0.200	0.206	0.197	0.170 to 0.230	100	70.0 to 130	2.96	20.0
BD09719	Magnesium, Dissolved	mg/L	0.00181	0.0462	5.00	6.33	6.30	4.89	4.25 to 5.75	98.4	70.0 to 130	0.475	20.0
BD09719	Magnesium, Total	mg/L	0.00974	0.0462	5.00	6.40	6.37	4.98	4.25 to 5.75	101	70.0 to 130	0.470	20.0
BD09719	Manganese, Dissolved	mg/L	-0.0000486	0.00033	0.100	0.115	0.112	0.104	0.0850 to 0.115	107	70.0 to 130	2.64	20.0
BD09719	Manganese, Total	mg/L	0.0000290	0.00033	0.100	0.116	0.116	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09719	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00355	0.00347	0.00387	0.00340 to 0.00460	88.8	70.0 to 130	2.28	20.0
BD09719	Molybdenum, Dissolved	mg/L	0.00195	0.0100	0.2	0.201	0.202	0.200	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09719	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.199	0.203	0.200	0.170 to 0.230	99.5	70.0 to 130	1.99	20.0
BD09719	Potassium, Dissolved	mg/L	0.00726	0.367	10.0	11.6	11.3	10.3	8.50 to 11.5	104	70.0 to 130	2.62	20.0
BD09719	Potassium, Total	mg/L	0.0166	0.367	10.0	11.4	11.5	10.3	8.50 to 11.5	102	70.0 to 130	0.873	20.0
BD09719	Selenium, Dissolved	mg/L	0.000110	0.00100	0.100	0.103	0.105	0.108	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09719	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD09719	Silicon, Dissolved	mg/L	0.00119	0.0440	1.00	5.62	5.63	1.02	0.850 to 1.15	101	70.0 to 130	0.178	20.0
BD09719	Silicon, Total	mg/L	0.00262	0.0440	1.00	5.64	5.63	1.03	0.850 to 1.15	106	70.0 to 130	0.177	20.0
BD09719	Sodium, Dissolved	mg/L	-0.00593	0.0880	5.00	11.1	11.0	4.91	4.25 to 5.75	96.4	70.0 to 130	0.905	20.0
BD09719	Sodium, Total	mg/L	-0.000349	0.0880	5.00	11.3	11.5	4.92	4.25 to 5.75	100	70.0 to 130	1.75	20.0
BD09719	Sulfate	mg/L	-0.0419	2.0	20.0	22.4	22.4	19.1	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BD09719	Thallium, Dissolved	mg/L	-0.000001	0.000147	0.100	0.105	0.107	0.109	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD09719	Thallium, Total	mg/L	-0.0000082	0.000147	0.100	0.114	0.113	0.110	0.0850 to 0.115	114	70.0 to 130	0.881	20.0
BD09719	Total Organic Carbon	mg/L	0.0746	1.00	10.0	9.45	9.56	10.1		94.5	80.0 to 120	1.16	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 09:27

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-31

**Laboratory ID Number:** BD09719

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09715	Alkalinity	mg CaCO3/L					202	50.2	45.0 to 55.0			2.51	10.0
BD09719	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.69	0.624	1.96	1.80 to 2.20	103	90.0 to 110	0.482	15.0
BD09723	Solids, Dissolved	mg/L	1.00	25.0			426	53.0	40.0 to 60.0			0.468	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-35H

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 10:32  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09720

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	5/25/23 14:07	5/26/23 13:36		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/25/23 14:07	5/26/23 13:36		1.015	22.1	mg/L	0.070035	0.406		
* Iron, Total	5/25/23 14:07	5/26/23 13:36		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	5/25/23 14:07	5/26/23 13:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/25/23 14:07	5/26/23 13:36		1.015	3.01	mg/L	0.021315	0.406		
* Molybdenum, Total	5/25/23 14:07	5/26/23 13:36		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 13:36		1	8.20	mg/L				
* Silicon, Total	5/25/23 14:07	5/26/23 13:36		1.015	3.83	mg/L	0.02030	0.25375		
* Sodium, Total	5/25/23 14:07	5/26/23 13:36		1.015	3.20	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	5/25/23 13:08	5/26/23 15:43		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	5/25/23 13:08	5/26/23 15:43		1.015	21.9	mg/L	0.070035	0.406		
* Iron, Dissolved	5/25/23 13:08	5/26/23 15:43		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	5/25/23 13:08	5/26/23 15:43		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/25/23 13:08	5/26/23 15:43		1.015	2.98	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	5/25/23 13:08	5/26/23 15:43		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	5/25/23 13:08	5/26/23 15:43		1	8.26	mg/L				
* Silicon, Dissolved	5/25/23 13:08	5/26/23 15:43		1.015	3.86	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/25/23 13:08	5/26/23 15:43		1.015	3.21	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	5/25/23 14:07	5/30/23 14:28		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	5/25/23 14:07	5/30/23 14:28		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	5/25/23 14:07	5/30/23 14:28		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	5/25/23 14:07	5/30/23 14:28		1.015	0.0394	mg/L	0.000508	0.001015		
* Beryllium, Total	5/25/23 14:07	5/30/23 14:28		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/25/23 14:07	5/30/23 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	5/25/23 14:07	5/30/23 14:28		1.015	0.000525	mg/L	0.000203	0.001015	J	
* Cobalt, Total	5/25/23 14:07	5/30/23 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	5/25/23 14:07	5/30/23 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	5/25/23 14:07	5/30/23 14:28		1.015	0.000171	mg/L	0.000152	0.001015	J	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-35H

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 10:32  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09720

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 14:28		1.015	1.48	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 14:28		1.015	0.00285	mg/L	0.000508	0.001015	
* Thallium, Total	5/25/23 14:07	5/30/23 14:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 13:08	5/30/23 10:20		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 13:08	5/30/23 10:20		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/25/23 13:08	5/30/23 10:20		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	5/25/23 13:08	5/30/23 10:20		1.015	0.0338	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 13:08	5/30/23 10:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 13:08	5/30/23 10:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 13:08	5/30/23 10:20		1.015	0.000492	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/25/23 13:08	5/30/23 10:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/25/23 13:08	5/30/23 10:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/25/23 13:08	5/30/23 10:20		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Dissolved	5/25/23 13:08	5/30/23 10:20		1.015	1.45	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 13:08	5/30/23 10:20		1.015	0.00283	mg/L	0.000508	0.001015	
* Thallium, Dissolved	5/25/23 13:08	5/30/23 10:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/26/23 00:44		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 14:03	5/25/23 14:03		1	0.793	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/2/23 10:30	6/2/23 13:48		1	43.7	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:40	6/1/23 10:10		1	90.7	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	43.7	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/2/23 10:30	6/2/23 13:48		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 17:39	5/25/23 17:39		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-35H

**Location Code:** WMWGREAP

**Collected:** 5/23/23 10:32

**Customer ID:**

**Submittal Date:** 5/24/23 12:00

**Laboratory ID Number:** BD09720

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 15:43	5/24/23 15:43		1	2.92	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 13:06	5/25/23 13:06		1	0.116	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 16:04	6/6/23 16:04		1	25.2	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	5/23/23 10:29	5/23/23 10:29			136.25	uS/cm			FA
pH	5/23/23 10:29	5/23/23 10:29			6.26	SU			FA
Temperature	5/23/23 10:29	5/23/23 10:29			19.35	C			FA
Turbidity	5/23/23 10:29	5/23/23 10:29			2.08	NTU			FA
Sulfide	5/23/23 10:29	5/23/23 10:29			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 10:32

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-35H

**Laboratory ID Number:** BD09720

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09723	Aluminum, Dissolved	mg/L	0.000260	0.0198	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD09724	Aluminum, Total	mg/L	0.00158	0.0198	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09723	Antimony, Dissolved	mg/L	0.000333	0.00100	0.100	0.105	0.103	0.0929	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD09724	Antimony, Total	mg/L	0.000357	0.00100	0.100	0.105	0.107	0.109	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD09723	Arsenic, Dissolved	mg/L	0.0000224	0.000200	0.100	0.487	0.489	0.107	0.0850 to 0.115	97.0	70.0 to 130	0.410	20.0
BD09724	Arsenic, Total	mg/L	0.0000110	0.000200	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD09723	Barium, Dissolved	mg/L	0.0000168	0.00100	0.100	0.312	0.307	0.0992	0.0850 to 0.115	95.0	70.0 to 130	1.62	20.0
BD09724	Barium, Total	mg/L	0.0000264	0.00100	0.100	0.112	0.111	0.111	0.0850 to 0.115	112	70.0 to 130	0.897	20.0
BD09723	Beryllium, Dissolved	mg/L	0.0000442	0.000880	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD09724	Beryllium, Total	mg/L	0.0000350	0.000880	0.100	0.0931	0.0945	0.0929	0.0850 to 0.115	93.1	70.0 to 130	1.49	20.0
BD09723	Boron, Dissolved	mg/L	0.00033	0.0650	1.00	1.39	1.39	1.04	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BD09724	Boron, Total	mg/L	0.000873	0.0650	1.00	1.02	1.02	1.05	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD09723	Cadmium, Dissolved	mg/L	0.0000146	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD09724	Cadmium, Total	mg/L	-0.0000005	0.000147	0.100	0.110	0.112	0.111	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BD09723	Calcium, Dissolved	mg/L	-0.000632	0.152	5.00	113	105	4.84	4.25 to 5.75	380	70.0 to 130	7.34	20.0
BD09724	Calcium, Total	mg/L	0.0167	0.152	5.00	4.94	4.78	4.99	4.25 to 5.75	98.8	70.0 to 130	3.29	20.0
BD09724	Chloride	mg/L	0.028	1.00	10.0	9.86	9.60	9.83	9.00 to 11.0	98.6	80.0 to 120	2.67	20.0
BD09723	Chromium, Dissolved	mg/L	-0.000038	0.000440	0.100	0.101	0.0995	0.0996	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BD09724	Chromium, Total	mg/L	-0.0000577	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD09723	Cobalt, Dissolved	mg/L	-0.000007	0.000147	0.100	0.132	0.129	0.0971	0.0850 to 0.115	97.9	70.0 to 130	2.30	20.0
BD09724	Cobalt, Total	mg/L	-0.0000174	0.000147	0.100	0.0981	0.100	0.0998	0.0850 to 0.115	98.1	70.0 to 130	1.92	20.0
BD09724	Fluoride	mg/L	0.033	0.125	2.50	2.61	2.56	2.57	2.25 to 2.75	104	80.0 to 120	1.93	20.0
BD09723	Iron, Dissolved	mg/L	0.00174	0.0176	0.2	40.7	41.9	0.205	0.170 to 0.230	150	70.0 to 130	2.91	20.0
BD09724	Iron, Total	mg/L	0.00582	0.0176	0.2	0.205	0.212	0.211	0.170 to 0.230	102	70.0 to 130	3.36	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 10:32

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-35H

**Laboratory ID Number:** BD09720

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09723	Lead, Dissolved	mg/L	0.0000091	0.000147	0.100	0.102	0.104	0.106	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD09724	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09723	Lithium, Dissolved	mg/L	0.000878	0.0154	0.200	0.253	0.254	0.200	0.170 to 0.230	101	70.0 to 130	0.394	20.0
BD09724	Lithium, Total	mg/L	-0.00006	0.0154	0.200	0.200	0.205	0.197	0.170 to 0.230	100	70.0 to 130	2.47	20.0
BD09723	Magnesium, Dissolved	mg/L	0.00181	0.0462	5.00	23.5	23.8	4.89	4.25 to 5.75	90.0	70.0 to 130	1.27	20.0
BD09724	Magnesium, Total	mg/L	0.00974	0.0462	5.00	4.99	4.89	4.98	4.25 to 5.75	99.8	70.0 to 130	2.02	20.0
BD09723	Manganese, Dissolved	mg/L	-0.0000486	0.00033	0.100	1.88	1.91	0.104	0.0850 to 0.115	80.0	70.0 to 130	1.58	20.0
BD09724	Manganese, Total	mg/L	0.0000290	0.00033	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09878	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00388	0.00388	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.00	20.0
BD09723	Molybdenum, Dissolved	mg/L	0.00195	0.0100	0.2	0.204	0.206	0.200	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BD09724	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.197	0.202	0.200	0.170 to 0.230	98.5	70.0 to 130	2.51	20.0
BD09723	Potassium, Dissolved	mg/L	0.00726	0.367	10.0	17.7	17.8	10.3	8.50 to 11.5	100	70.0 to 130	0.563	20.0
BD09724	Potassium, Total	mg/L	0.0166	0.367	10.0	10.1	10.4	10.3	8.50 to 11.5	101	70.0 to 130	2.93	20.0
BD09723	Selenium, Dissolved	mg/L	0.000110	0.00100	0.100	0.105	0.105	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09724	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD09723	Silicon, Dissolved	mg/L	0.00119	0.0440	1.00	8.00	8.01	1.02	0.850 to 1.15	91.0	70.0 to 130	0.125	20.0
BD09724	Silicon, Total	mg/L	0.00262	0.0440	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD09723	Sodium, Dissolved	mg/L	-0.00593	0.0880	5.00	18.1	18.2	4.91	4.25 to 5.75	98.0	70.0 to 130	0.551	20.0
BD09724	Sodium, Total	mg/L	-0.000349	0.0880	5.00	4.93	5.01	4.92	4.25 to 5.75	98.6	70.0 to 130	1.61	20.0
BD09878	Sulfate	mg/L	-0.0523	2.0	160	263	264	18.9	18.0 to 22.0	100	80.0 to 120	0.380	20.0
BD09723	Thallium, Dissolved	mg/L	-0.000001	0.000147	0.100	0.105	0.108	0.109	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BD09724	Thallium, Total	mg/L	-0.0000082	0.000147	0.100	0.112	0.112	0.110	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD09878	Total Organic Carbon	mg/L	0.0719	1.00	10.0	11.2	12.0	9.75		93.0	80.0 to 120	6.90	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 10:32

**Customer ID:**

**Delivery Date:** 5/24/23 12:00

**Description:** Greene County Ash Pond - MW-35H

**Laboratory ID Number:** BD09720

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD09715	Alkalinity	mg CaCO3/L					202	50.2	45.0 to 55.0			2.51	10.0
BD09878	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.27	0.154	2.05	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD09723	Solids, Dissolved	mg/L	1.00	25.0			426	53.0	40.0 to 60.0			0.468	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-57H

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 13:42  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:01

**Laboratory ID Number:** BD09721

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/25/23 14:07	5/26/23 13:39		1.015	0.109	mg/L	0.030000	0.1015	
* Calcium, Total	5/25/23 14:07	5/26/23 13:39		1.015	24.4	mg/L	0.070035	0.406	
* Iron, Total	5/25/23 14:07	5/31/23 15:41		10.15	5.88	mg/L	0.08120	0.406	
* Lithium, Total	5/25/23 14:07	5/26/23 13:39		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/25/23 14:07	5/26/23 13:39		1.015	7.31	mg/L	0.021315	0.406	
* Molybdenum, Total	5/25/23 14:07	5/26/23 13:39		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 13:39		1	11.1	mg/L			
* Silicon, Total	5/25/23 14:07	5/26/23 13:39		1.015	5.19	mg/L	0.02030	0.25375	
* Sodium, Total	5/25/23 14:07	5/26/23 13:39		1.015	14.0	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/25/23 13:08	5/26/23 15:46		1.015	0.109	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/25/23 13:08	5/26/23 15:46		1.015	24.0	mg/L	0.070035	0.406	
* Iron, Dissolved	5/25/23 13:08	5/31/23 16:22		10.15	7.66	mg/L	0.08120	0.406	
* Lithium, Dissolved	5/25/23 13:08	5/26/23 15:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/25/23 13:08	5/26/23 15:46		1.015	7.17	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/25/23 13:08	5/26/23 15:46		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/25/23 13:08	5/26/23 15:46		1	11.1	mg/L			
* Silicon, Dissolved	5/25/23 13:08	5/26/23 15:46		1.015	5.18	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/25/23 13:08	5/26/23 15:46		1.015	14.0	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/25/23 14:07	5/30/23 14:31		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	5/25/23 14:07	5/30/23 14:31		1.015	0.00126	mg/L	0.000112	0.000203	
* Aluminum, Total	5/25/23 14:07	5/30/23 14:31		1.015	0.0811	mg/L	0.009135	0.05075	
* Barium, Total	5/25/23 14:07	5/30/23 14:31		1.015	0.128	mg/L	0.000508	0.001015	
* Beryllium, Total	5/25/23 14:07	5/30/23 14:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/25/23 14:07	5/30/23 14:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/25/23 14:07	5/30/23 14:31		1.015	0.000406	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/25/23 14:07	5/30/23 14:31		1.015	0.0208	mg/L	0.000068	0.000203	
* Lead, Total	5/25/23 14:07	5/30/23 14:31		1.015	0.000166	mg/L	0.000068	0.000203	J
* Manganese, Total	5/25/23 14:07	5/30/23 14:31		1.015	0.895	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-57H

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 13:42  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:01

**Laboratory ID Number:** BD09721

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 14:31		1.015	4.32	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 14:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/25/23 14:07	5/30/23 14:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 13:08	5/30/23 10:23		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 13:08	5/30/23 10:23		1.015	0.0457	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	5/25/23 13:08	5/30/23 10:23		1.015	0.00122	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/25/23 13:08	5/30/23 10:23		1.015	0.115	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 13:08	5/30/23 10:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 13:08	5/30/23 10:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 13:08	5/30/23 10:23		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/25/23 13:08	5/30/23 10:23		1.015	0.0209	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/25/23 13:08	5/30/23 10:23		1.015	0.0000833	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	5/25/23 13:08	5/30/23 10:23		1.015	0.877	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/25/23 13:08	5/30/23 10:23		1.015	4.21	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 13:08	5/30/23 10:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/25/23 13:08	5/30/23 10:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/26/23 00:48		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 14:05	5/25/23 14:05		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/5/23 11:10	6/5/23 13:58		1	65.4	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:40	6/1/23 10:10		1	164	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/5/23 11:10	6/5/23 13:58		1	65.4	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/5/23 11:10	6/5/23 13:58		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 17:52	5/25/23 17:52		1	3.34	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-57H

**Location Code:** WMWGREAP

**Collected:** 5/23/23 13:42

**Customer ID:**

**Submittal Date:** 5/24/23 12:01

**Laboratory ID Number:** BD09721

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 15:44	5/24/23 15:44		1	11.4	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 13:07	5/25/23 13:07		1	0.101	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 16:18	6/6/23 16:18		3	53.6	mg/L	1.8	6	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	5/23/23 13:39	5/23/23 13:39			256.94	uS/cm			FA
pH	5/23/23 13:39	5/23/23 13:39			6.00	SU			FA
Temperature	5/23/23 13:39	5/23/23 13:39			18.26	C			FA
Turbidity	5/23/23 13:39	5/23/23 13:39			3.01	NTU			FA
Sulfide	5/23/23 13:39	5/23/23 13:39			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 13:42

**Customer ID:**

**Delivery Date:** 5/24/23 12:01

**Description:** Greene County Ash Pond - MW-57H

**Laboratory ID Number:** BD09721

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09723	Aluminum, Dissolved	mg/L	0.000260	0.0198	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD09724	Aluminum, Total	mg/L	0.00158	0.0198	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09723	Antimony, Dissolved	mg/L	0.000333	0.00100	0.100	0.105	0.103	0.0929	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD09724	Antimony, Total	mg/L	0.000357	0.00100	0.100	0.105	0.107	0.109	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD09723	Arsenic, Dissolved	mg/L	0.0000224	0.000200	0.100	0.487	0.489	0.107	0.0850 to 0.115	97.0	70.0 to 130	0.410	20.0
BD09724	Arsenic, Total	mg/L	0.0000110	0.000200	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD09723	Barium, Dissolved	mg/L	0.0000168	0.00100	0.100	0.312	0.307	0.0992	0.0850 to 0.115	95.0	70.0 to 130	1.62	20.0
BD09724	Barium, Total	mg/L	0.0000264	0.00100	0.100	0.112	0.111	0.111	0.0850 to 0.115	112	70.0 to 130	0.897	20.0
BD09723	Beryllium, Dissolved	mg/L	0.0000442	0.000880	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD09724	Beryllium, Total	mg/L	0.0000350	0.000880	0.100	0.0931	0.0945	0.0929	0.0850 to 0.115	93.1	70.0 to 130	1.49	20.0
BD09723	Boron, Dissolved	mg/L	0.00033	0.0650	1.00	1.39	1.39	1.04	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BD09724	Boron, Total	mg/L	0.000873	0.0650	1.00	1.02	1.02	1.05	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD09723	Cadmium, Dissolved	mg/L	0.0000146	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD09724	Cadmium, Total	mg/L	-0.0000005	0.000147	0.100	0.110	0.112	0.111	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BD09723	Calcium, Dissolved	mg/L	-0.000632	0.152	5.00	113	105	4.84	4.25 to 5.75	380	70.0 to 130	7.34	20.0
BD09724	Calcium, Total	mg/L	0.0167	0.152	5.00	4.94	4.78	4.99	4.25 to 5.75	98.8	70.0 to 130	3.29	20.0
BD09724	Chloride	mg/L	0.028	1.00	10.0	9.86	9.60	9.83	9.00 to 11.0	98.6	80.0 to 120	2.67	20.0
BD09723	Chromium, Dissolved	mg/L	-0.000038	0.000440	0.100	0.101	0.0995	0.0996	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BD09724	Chromium, Total	mg/L	-0.0000577	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD09723	Cobalt, Dissolved	mg/L	-0.000007	0.000147	0.100	0.132	0.129	0.0971	0.0850 to 0.115	97.9	70.0 to 130	2.30	20.0
BD09724	Cobalt, Total	mg/L	-0.0000174	0.000147	0.100	0.0981	0.100	0.0998	0.0850 to 0.115	98.1	70.0 to 130	1.92	20.0
BD09724	Fluoride	mg/L	0.033	0.125	2.50	2.61	2.56	2.57	2.25 to 2.75	104	80.0 to 120	1.93	20.0
BD09723	Iron, Dissolved	mg/L	0.00174	0.0176	0.2	40.7	41.9	0.205	0.170 to 0.230	150	70.0 to 130	2.91	20.0
BD09724	Iron, Total	mg/L	0.00582	0.0176	0.2	0.205	0.212	0.211	0.170 to 0.230	102	70.0 to 130	3.36	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 13:42

**Customer ID:**

**Delivery Date:** 5/24/23 12:01

**Description:** Greene County Ash Pond - MW-57H

**Laboratory ID Number:** BD09721

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09723	Lead, Dissolved	mg/L	0.0000091	0.000147	0.100	0.102	0.104	0.106	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD09724	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09723	Lithium, Dissolved	mg/L	0.000878	0.0154	0.200	0.253	0.254	0.200	0.170 to 0.230	101	70.0 to 130	0.394	20.0
BD09724	Lithium, Total	mg/L	-0.00006	0.0154	0.200	0.200	0.205	0.197	0.170 to 0.230	100	70.0 to 130	2.47	20.0
BD09723	Magnesium, Dissolved	mg/L	0.00181	0.0462	5.00	23.5	23.8	4.89	4.25 to 5.75	90.0	70.0 to 130	1.27	20.0
BD09724	Magnesium, Total	mg/L	0.00974	0.0462	5.00	4.99	4.89	4.98	4.25 to 5.75	99.8	70.0 to 130	2.02	20.0
BD09723	Manganese, Dissolved	mg/L	-0.0000486	0.00033	0.100	1.88	1.91	0.104	0.0850 to 0.115	80.0	70.0 to 130	1.58	20.0
BD09724	Manganese, Total	mg/L	0.0000290	0.00033	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09878	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00388	0.00388	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.00	20.0
BD09723	Molybdenum, Dissolved	mg/L	0.00195	0.0100	0.2	0.204	0.206	0.200	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BD09724	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.197	0.202	0.200	0.170 to 0.230	98.5	70.0 to 130	2.51	20.0
BD09723	Potassium, Dissolved	mg/L	0.00726	0.367	10.0	17.7	17.8	10.3	8.50 to 11.5	100	70.0 to 130	0.563	20.0
BD09724	Potassium, Total	mg/L	0.0166	0.367	10.0	10.1	10.4	10.3	8.50 to 11.5	101	70.0 to 130	2.93	20.0
BD09723	Selenium, Dissolved	mg/L	0.000110	0.00100	0.100	0.105	0.105	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09724	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD09723	Silicon, Dissolved	mg/L	0.00119	0.0440	1.00	8.00	8.01	1.02	0.850 to 1.15	91.0	70.0 to 130	0.125	20.0
BD09724	Silicon, Total	mg/L	0.00262	0.0440	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD09723	Sodium, Dissolved	mg/L	-0.00593	0.0880	5.00	18.1	18.2	4.91	4.25 to 5.75	98.0	70.0 to 130	0.551	20.0
BD09724	Sodium, Total	mg/L	-0.000349	0.0880	5.00	4.93	5.01	4.92	4.25 to 5.75	98.6	70.0 to 130	1.61	20.0
BD09878	Sulfate	mg/L	-0.0523	2.0	160	263	264	18.9	18.0 to 22.0	100	80.0 to 120	0.380	20.0
BD09723	Thallium, Dissolved	mg/L	-0.000001	0.000147	0.100	0.105	0.108	0.109	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BD09724	Thallium, Total	mg/L	-0.0000082	0.000147	0.100	0.112	0.112	0.110	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD09878	Total Organic Carbon	mg/L	0.0719	1.00	10.0	11.2	12.0	9.75		93.0	80.0 to 120	6.90	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 13:42

**Customer ID:**

**Delivery Date:** 5/24/23 12:01

**Description:** Greene County Ash Pond - MW-57H

**Laboratory ID Number:** BD09721

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09722	Alkalinity	mg CaCO3/L					68.2	49.5	45.0 to 55.0			0.147	10.0
BD09878	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.27	0.154	2.05	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD09723	Solids, Dissolved	mg/L	1.00	25.0			426	53.0	40.0 to 60.0			0.468	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-57H Dup

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 13:42  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:01

**Laboratory ID Number:** BD09722

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/25/23 14:07	5/26/23 13:42		1.015	0.106	mg/L	0.030000	0.1015	
* Calcium, Total	5/25/23 14:07	5/26/23 13:42		1.015	24.2	mg/L	0.070035	0.406	
* Iron, Total	5/25/23 14:07	5/31/23 15:44		10.15	5.62	mg/L	0.08120	0.406	
* Lithium, Total	5/25/23 14:07	5/26/23 13:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/25/23 14:07	5/26/23 13:42		1.015	7.18	mg/L	0.021315	0.406	
* Molybdenum, Total	5/25/23 14:07	5/26/23 13:42		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 13:42		1	11.0	mg/L			
* Silicon, Total	5/25/23 14:07	5/26/23 13:42		1.015	5.16	mg/L	0.02030	0.25375	
* Sodium, Total	5/25/23 14:07	5/26/23 13:42		1.015	13.8	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/25/23 13:08	5/26/23 15:49		1.015	0.108	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/25/23 13:08	5/26/23 15:49		1.015	24.5	mg/L	0.070035	0.406	
* Iron, Dissolved	5/25/23 13:08	5/31/23 16:25		10.15	6.03	mg/L	0.08120	0.406	
* Lithium, Dissolved	5/25/23 13:08	5/26/23 15:49		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/25/23 13:08	5/26/23 15:49		1.015	7.22	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/25/23 13:08	5/26/23 15:49		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/25/23 13:08	5/26/23 15:49		1	11.1	mg/L			
* Silicon, Dissolved	5/25/23 13:08	5/26/23 15:49		1.015	5.17	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/25/23 13:08	5/26/23 15:49		1.015	13.9	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/25/23 14:07	5/30/23 14:35		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	5/25/23 14:07	5/30/23 14:35		1.015	0.00131	mg/L	0.000112	0.000203	
* Aluminum, Total	5/25/23 14:07	5/30/23 14:35		1.015	0.0790	mg/L	0.009135	0.05075	
* Barium, Total	5/25/23 14:07	5/30/23 14:35		1.015	0.126	mg/L	0.000508	0.001015	
* Beryllium, Total	5/25/23 14:07	5/30/23 14:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/25/23 14:07	5/30/23 14:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/25/23 14:07	5/30/23 14:35		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/25/23 14:07	5/30/23 14:35		1.015	0.0194	mg/L	0.000068	0.000203	
* Lead, Total	5/25/23 14:07	5/30/23 14:35		1.015	0.000164	mg/L	0.000068	0.000203	J
* Manganese, Total	5/25/23 14:07	5/30/23 14:35		1.015	0.872	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-57H Dup

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 13:42  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:01

**Laboratory ID Number:** BD09722

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 14:35		1.015	4.14	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 14:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/25/23 14:07	5/30/23 14:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 13:08	5/30/23 10:27		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 13:08	5/30/23 10:27		1.015	0.0458	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	5/25/23 13:08	5/30/23 10:27		1.015	0.00113	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/25/23 13:08	5/30/23 10:27		1.015	0.120	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 13:08	5/30/23 10:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 13:08	5/30/23 10:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 13:08	5/30/23 10:27		1.015	0.000218	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/25/23 13:08	5/30/23 10:27		1.015	0.0211	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/25/23 13:08	5/30/23 10:27		1.015	0.000103	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	5/25/23 13:08	5/30/23 10:27		1.015	0.878	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/25/23 13:08	5/30/23 10:27		1.015	4.28	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 13:08	5/30/23 10:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/25/23 13:08	5/30/23 10:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/26/23 00:52		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 14:07	5/25/23 14:07		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/5/23 11:10	6/5/23 13:58		1	68.3	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:40	6/1/23 10:10		1	164	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/5/23 11:10	6/5/23 13:58		1	68.3	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/5/23 11:10	6/5/23 13:58		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 18:06	5/25/23 18:06		1	3.37	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-57H Dup

**Location Code:** WMWGREAP

**Collected:** 5/23/23 13:42

**Customer ID:**

**Submittal Date:** 5/24/23 12:01

**Laboratory ID Number:** BD09722

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 15:45	5/24/23 15:45		1	11.3	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 13:08	5/25/23 13:08		1	0.104	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 16:19	6/6/23 16:19		3	51.8	mg/L	1.8	6	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	5/23/23 13:39	5/23/23 13:39			256.94	uS/cm			FA
pH	5/23/23 13:39	5/23/23 13:39			6.00	SU			FA
Temperature	5/23/23 13:39	5/23/23 13:39			18.26	C			FA
Turbidity	5/23/23 13:39	5/23/23 13:39			3.01	NTU			FA
Sulfide	5/23/23 13:39	5/23/23 13:39			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 13:42

**Customer ID:**

**Delivery Date:** 5/24/23 12:01

**Description:** Greene County Ash Pond - MW-57H Dup

**Laboratory ID Number:** BD09722

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09723	Aluminum, Dissolved	mg/L	0.000260	0.0198	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD09724	Aluminum, Total	mg/L	0.00158	0.0198	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09723	Antimony, Dissolved	mg/L	0.000333	0.00100	0.100	0.105	0.103	0.0929	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD09724	Antimony, Total	mg/L	0.000357	0.00100	0.100	0.105	0.107	0.109	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD09723	Arsenic, Dissolved	mg/L	0.0000224	0.000200	0.100	0.487	0.489	0.107	0.0850 to 0.115	97.0	70.0 to 130	0.410	20.0
BD09724	Arsenic, Total	mg/L	0.0000110	0.000200	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD09723	Barium, Dissolved	mg/L	0.0000168	0.00100	0.100	0.312	0.307	0.0992	0.0850 to 0.115	95.0	70.0 to 130	1.62	20.0
BD09724	Barium, Total	mg/L	0.0000264	0.00100	0.100	0.112	0.111	0.111	0.0850 to 0.115	112	70.0 to 130	0.897	20.0
BD09723	Beryllium, Dissolved	mg/L	0.0000442	0.000880	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD09724	Beryllium, Total	mg/L	0.0000350	0.000880	0.100	0.0931	0.0945	0.0929	0.0850 to 0.115	93.1	70.0 to 130	1.49	20.0
BD09723	Boron, Dissolved	mg/L	0.00033	0.0650	1.00	1.39	1.39	1.04	0.850 to 1.15	106	70.0 to 130	0.00	20.0
BD09724	Boron, Total	mg/L	0.000873	0.0650	1.00	1.02	1.02	1.05	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD09723	Cadmium, Dissolved	mg/L	0.0000146	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD09724	Cadmium, Total	mg/L	-0.0000005	0.000147	0.100	0.110	0.112	0.111	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BD09723	Calcium, Dissolved	mg/L	-0.000632	0.152	5.00	113	105	4.84	4.25 to 5.75	380	70.0 to 130	7.34	20.0
BD09724	Calcium, Total	mg/L	0.0167	0.152	5.00	4.94	4.78	4.99	4.25 to 5.75	98.8	70.0 to 130	3.29	20.0
BD09724	Chloride	mg/L	0.028	1.00	10.0	9.86	9.60	9.83	9.00 to 11.0	98.6	80.0 to 120	2.67	20.0
BD09723	Chromium, Dissolved	mg/L	-0.000038	0.000440	0.100	0.101	0.0995	0.0996	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BD09724	Chromium, Total	mg/L	-0.0000577	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD09723	Cobalt, Dissolved	mg/L	-0.000007	0.000147	0.100	0.132	0.129	0.0971	0.0850 to 0.115	97.9	70.0 to 130	2.30	20.0
BD09724	Cobalt, Total	mg/L	-0.0000174	0.000147	0.100	0.0981	0.100	0.0998	0.0850 to 0.115	98.1	70.0 to 130	1.92	20.0
BD09724	Fluoride	mg/L	0.033	0.125	2.50	2.61	2.56	2.57	2.25 to 2.75	104	80.0 to 120	1.93	20.0
BD09723	Iron, Dissolved	mg/L	0.00174	0.0176	0.2	40.7	41.9	0.205	0.170 to 0.230	150	70.0 to 130	2.91	20.0
BD09724	Iron, Total	mg/L	0.00582	0.0176	0.2	0.205	0.212	0.211	0.170 to 0.230	102	70.0 to 130	3.36	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 13:42

**Customer ID:**

**Delivery Date:** 5/24/23 12:01

**Description:** Greene County Ash Pond - MW-57H Dup

**Laboratory ID Number:** BD09722

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09723	Lead, Dissolved	mg/L	0.000091	0.000147	0.100	0.102	0.104	0.106	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD09724	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09723	Lithium, Dissolved	mg/L	0.000878	0.0154	0.200	0.253	0.254	0.200	0.170 to 0.230	101	70.0 to 130	0.394	20.0
BD09724	Lithium, Total	mg/L	-0.00006	0.0154	0.200	0.200	0.205	0.197	0.170 to 0.230	100	70.0 to 130	2.47	20.0
BD09723	Magnesium, Dissolved	mg/L	0.00181	0.0462	5.00	23.5	23.8	4.89	4.25 to 5.75	90.0	70.0 to 130	1.27	20.0
BD09724	Magnesium, Total	mg/L	0.00974	0.0462	5.00	4.99	4.89	4.98	4.25 to 5.75	99.8	70.0 to 130	2.02	20.0
BD09723	Manganese, Dissolved	mg/L	-0.0000486	0.00033	0.100	1.88	1.91	0.104	0.0850 to 0.115	80.0	70.0 to 130	1.58	20.0
BD09724	Manganese, Total	mg/L	0.0000290	0.00033	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09878	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00388	0.00388	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.00	20.0
BD09723	Molybdenum, Dissolved	mg/L	0.00195	0.0100	0.2	0.204	0.206	0.200	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BD09724	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.197	0.202	0.200	0.170 to 0.230	98.5	70.0 to 130	2.51	20.0
BD09723	Potassium, Dissolved	mg/L	0.00726	0.367	10.0	17.7	17.8	10.3	8.50 to 11.5	100	70.0 to 130	0.563	20.0
BD09724	Potassium, Total	mg/L	0.0166	0.367	10.0	10.1	10.4	10.3	8.50 to 11.5	101	70.0 to 130	2.93	20.0
BD09723	Selenium, Dissolved	mg/L	0.000110	0.00100	0.100	0.105	0.105	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09724	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD09723	Silicon, Dissolved	mg/L	0.00119	0.0440	1.00	8.00	8.01	1.02	0.850 to 1.15	91.0	70.0 to 130	0.125	20.0
BD09724	Silicon, Total	mg/L	0.00262	0.0440	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD09723	Sodium, Dissolved	mg/L	-0.00593	0.0880	5.00	18.1	18.2	4.91	4.25 to 5.75	98.0	70.0 to 130	0.551	20.0
BD09724	Sodium, Total	mg/L	-0.000349	0.0880	5.00	4.93	5.01	4.92	4.25 to 5.75	98.6	70.0 to 130	1.61	20.0
BD09878	Sulfate	mg/L	-0.0523	2.0	160	263	264	18.9	18.0 to 22.0	100	80.0 to 120	0.380	20.0
BD09723	Thallium, Dissolved	mg/L	-0.000001	0.000147	0.100	0.105	0.108	0.109	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BD09724	Thallium, Total	mg/L	-0.0000082	0.000147	0.100	0.112	0.112	0.110	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD09878	Total Organic Carbon	mg/L	0.0719	1.00	10.0	11.2	12.0	9.75		93.0	80.0 to 120	6.90	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 13:42

**Customer ID:**

**Delivery Date:** 5/24/23 12:01

**Description:** Greene County Ash Pond - MW-57H Dup

**Laboratory ID Number:** BD09722

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09722	Alkalinity	mg CaCO3/L					68.2	49.5	45.0 to 55.0			0.147	10.0
BD09878	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.27	0.154	2.05	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD09723	Solids, Dissolved	mg/L	1.00	25.0			426	53.0	40.0 to 60.0			0.468	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-54H

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 14:40  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:01

**Laboratory ID Number:** BD09723

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/25/23 14:07	5/26/23 13:45		1.015	0.335	mg/L	0.030000	0.1015	
* Calcium, Total	5/25/23 14:07	5/31/23 15:47		10.15	106	mg/L	0.70035	4.06	
* Iron, Total	5/25/23 14:07	6/5/23 13:31		101.5	41.3	mg/L	0.8120	4.06	
* Lithium, Total	5/25/23 14:07	5/26/23 13:45		1.015	0.0523	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/25/23 14:07	5/26/23 13:45		1.015	19.2	mg/L	0.021315	0.406	
* Molybdenum, Total	5/25/23 14:07	5/26/23 13:45		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 13:45		1	15.5	mg/L			
* Silicon, Total	5/25/23 14:07	5/26/23 13:45		1.015	7.25	mg/L	0.02030	0.25375	
* Sodium, Total	5/25/23 14:07	5/26/23 13:45		1.015	13.5	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/25/23 13:08	5/26/23 15:52		1.015	0.331	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/25/23 13:08	5/31/23 16:28		10.15	94.0	mg/L	0.70035	4.06	RA
* Iron, Dissolved	5/25/23 13:08	6/5/23 10:54		101.5	40.4	mg/L	0.8120	4.06	RA
* Lithium, Dissolved	5/25/23 13:08	5/26/23 15:52		1.015	0.0514	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/25/23 13:08	5/26/23 15:52		1.015	19.0	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/25/23 13:08	5/26/23 15:52		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/25/23 13:08	5/26/23 15:52		1	15.2	mg/L			
* Silicon, Dissolved	5/25/23 13:08	5/26/23 15:52		1.015	7.09	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/25/23 13:08	5/26/23 15:52		1.015	13.2	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/25/23 14:07	5/30/23 14:38		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/25/23 14:07	5/30/23 14:38		1.015	0.0553	mg/L	0.009135	0.05075	
* Arsenic, Total	5/25/23 14:07	5/30/23 14:38		1.015	0.389	mg/L	0.000112	0.000203	
* Barium, Total	5/25/23 14:07	5/30/23 14:38		1.015	0.244	mg/L	0.000508	0.001015	
* Beryllium, Total	5/25/23 14:07	5/30/23 14:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/25/23 14:07	5/30/23 14:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/25/23 14:07	5/30/23 14:38		1.015	0.000239	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/25/23 14:07	5/30/23 14:38		1.015	0.0346	mg/L	0.000068	0.000203	
* Lead, Total	5/25/23 14:07	5/30/23 14:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/25/23 14:07	5/30/23 15:10		5.075	1.81	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-54H

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 14:40  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:01

**Laboratory ID Number:** BD09723

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 14:38		1.015	7.75	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 14:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/25/23 14:07	5/30/23 14:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 13:08	5/30/23 10:30		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 13:08	5/30/23 10:30		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/25/23 13:08	5/30/23 10:30		1.015	0.390	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/25/23 13:08	5/30/23 10:30		1.015	0.217	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 13:08	5/30/23 10:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 13:08	5/30/23 10:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 13:08	5/30/23 10:30		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/25/23 13:08	5/30/23 10:30		1.015	0.0341	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/25/23 13:08	5/30/23 10:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/25/23 13:08	5/30/23 10:59		5.075	1.80	mg/L	0.000761	0.005075	
* Potassium, Dissolved	5/25/23 13:08	5/30/23 10:30		1.015	7.66	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 13:08	5/30/23 10:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/25/23 13:08	5/30/23 10:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/26/23 00:56		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 14:08	5/25/23 14:08		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/5/23 11:10	6/5/23 13:58		1	259	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:40	6/1/23 10:10		1	428	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/5/23 11:10	6/5/23 13:58		1	259	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/5/23 11:10	6/5/23 13:58		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 18:22	5/25/23 18:22		1	2.65	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-54H

**Location Code:** WMWGREAP

**Collected:** 5/23/23 14:40

**Customer ID:**

**Submittal Date:** 5/24/23 12:01

**Laboratory ID Number:** BD09723

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 15:42	5/24/23 15:42		1	5.71	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 13:09	5/25/23 13:09		1	0.258	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 16:20	6/6/23 16:20		4	80.0	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	5/23/23 14:36	5/23/23 14:36			619.09	uS/cm			FA
pH	5/23/23 14:36	5/23/23 14:36			6.92	SU			FA
Temperature	5/23/23 14:36	5/23/23 14:36			18.32	C			FA
Turbidity	5/23/23 14:36	5/23/23 14:36			6.34	NTU			FA
Sulfide	5/23/23 14:36	5/23/23 14:36			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 14:40

**Customer ID:**

**Delivery Date:** 5/24/23 12:01

**Description:** Greene County Ash Pond - MW-54H

**Laboratory ID Number:** BD09723

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike				Limit	Rec	Limit	Prec		
BD09723	Aluminum, Dissolved	mg/L	0.000260	0.0198	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0	
BD09724	Aluminum, Total	mg/L	0.00158	0.0198	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0	
BD09723	Antimony, Dissolved	mg/L	0.000333	0.00100	0.100	0.105	0.103	0.0929	0.0850 to 0.115	105	70.0 to 130	1.92	20.0	
BD09724	Antimony, Total	mg/L	0.000357	0.00100	0.100	0.105	0.107	0.109	0.0850 to 0.115	105	70.0 to 130	1.89	20.0	
BD09723	Arsenic, Dissolved	mg/L	0.0000224	0.000200	0.100	0.487	0.489	0.107	0.0850 to 0.115	97.0	70.0 to 130	0.410	20.0	
BD09724	Arsenic, Total	mg/L	0.0000110	0.000200	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0	
BD09723	Barium, Dissolved	mg/L	0.0000168	0.00100	0.100	0.312	0.307	0.0992	0.0850 to 0.115	95.0	70.0 to 130	1.62	20.0	
BD09724	Barium, Total	mg/L	0.0000264	0.00100	0.100	0.112	0.111	0.111	0.0850 to 0.115	112	70.0 to 130	0.897	20.0	
BD09723	Beryllium, Dissolved	mg/L	0.0000442	0.000880	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BD09724	Beryllium, Total	mg/L	0.0000350	0.000880	0.100	0.0931	0.0945	0.0929	0.0850 to 0.115	93.1	70.0 to 130	1.49	20.0	
BD09723	Boron, Dissolved	mg/L	0.00033	0.0650	1.00	1.39	1.39	1.04	0.850 to 1.15	106	70.0 to 130	0.00	20.0	
BD09724	Boron, Total	mg/L	0.000873	0.0650	1.00	1.02	1.02	1.05	0.850 to 1.15	102	70.0 to 130	0.00	20.0	
BD09723	Cadmium, Dissolved	mg/L	0.0000146	0.000147	0.100	0.104	0.101	0.107	0.0850 to 0.115	104	70.0 to 130	2.93	20.0	
BD09724	Cadmium, Total	mg/L	-0.0000005	0.000147	0.100	0.110	0.112	0.111	0.0850 to 0.115	110	70.0 to 130	1.80	20.0	
BD09723	Calcium, Dissolved	mg/L	-0.000632	0.152	5.00	113	105	4.84	4.25 to 5.75	380	70.0 to 130	7.34	20.0	
BD09724	Calcium, Total	mg/L	0.0167	0.152	5.00	4.94	4.78	4.99	4.25 to 5.75	98.8	70.0 to 130	3.29	20.0	
BD09724	Chloride	mg/L	0.028	1.00	10.0	9.86	9.60	9.83	9.00 to 11.0	98.6	80.0 to 120	2.67	20.0	
BD09723	Chromium, Dissolved	mg/L	-0.000038	0.000440	0.100	0.101	0.0995	0.0996	0.0850 to 0.115	101	70.0 to 130	1.50	20.0	
BD09724	Chromium, Total	mg/L	-0.0000577	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BD09723	Cobalt, Dissolved	mg/L	-0.000007	0.000147	0.100	0.132	0.129	0.0971	0.0850 to 0.115	97.9	70.0 to 130	2.30	20.0	
BD09724	Cobalt, Total	mg/L	-0.0000174	0.000147	0.100	0.0981	0.100	0.0998	0.0850 to 0.115	98.1	70.0 to 130	1.92	20.0	
BD09724	Fluoride	mg/L	0.033	0.125	2.50	2.61	2.56	2.57	2.25 to 2.75	104	80.0 to 120	1.93	20.0	
BD09723	Iron, Dissolved	mg/L	0.00174	0.0176	0.2	40.7	41.9	0.205	0.170 to 0.230	150	70.0 to 130	2.91	20.0	
BD09724	Iron, Total	mg/L	0.00582	0.0176	0.2	0.205	0.212	0.211	0.170 to 0.230	102	70.0 to 130	3.36	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 14:40

**Customer ID:**

**Delivery Date:** 5/24/23 12:01

**Description:** Greene County Ash Pond - MW-54H

**Laboratory ID Number:** BD09723

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09723	Lead, Dissolved	mg/L	0.0000091	0.000147	0.100	0.102	0.104	0.106	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD09724	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09723	Lithium, Dissolved	mg/L	0.000878	0.0154	0.200	0.253	0.254	0.200	0.170 to 0.230	101	70.0 to 130	0.394	20.0
BD09724	Lithium, Total	mg/L	-0.00006	0.0154	0.200	0.200	0.205	0.197	0.170 to 0.230	100	70.0 to 130	2.47	20.0
BD09723	Magnesium, Dissolved	mg/L	0.00181	0.0462	5.00	23.5	23.8	4.89	4.25 to 5.75	90.0	70.0 to 130	1.27	20.0
BD09724	Magnesium, Total	mg/L	0.00974	0.0462	5.00	4.99	4.89	4.98	4.25 to 5.75	99.8	70.0 to 130	2.02	20.0
BD09723	Manganese, Dissolved	mg/L	-0.0000486	0.00033	0.100	1.88	1.91	0.104	0.0850 to 0.115	80.0	70.0 to 130	1.58	20.0
BD09724	Manganese, Total	mg/L	0.0000290	0.00033	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09878	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00388	0.00388	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.00	20.0
BD09723	Molybdenum, Dissolved	mg/L	0.00195	0.0100	0.2	0.204	0.206	0.200	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BD09724	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.197	0.202	0.200	0.170 to 0.230	98.5	70.0 to 130	2.51	20.0
BD09723	Potassium, Dissolved	mg/L	0.00726	0.367	10.0	17.7	17.8	10.3	8.50 to 11.5	100	70.0 to 130	0.563	20.0
BD09724	Potassium, Total	mg/L	0.0166	0.367	10.0	10.1	10.4	10.3	8.50 to 11.5	101	70.0 to 130	2.93	20.0
BD09723	Selenium, Dissolved	mg/L	0.000110	0.00100	0.100	0.105	0.105	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09724	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD09723	Silicon, Dissolved	mg/L	0.00119	0.0440	1.00	8.00	8.01	1.02	0.850 to 1.15	91.0	70.0 to 130	0.125	20.0
BD09724	Silicon, Total	mg/L	0.00262	0.0440	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD09723	Sodium, Dissolved	mg/L	-0.00593	0.0880	5.00	18.1	18.2	4.91	4.25 to 5.75	98.0	70.0 to 130	0.551	20.0
BD09724	Sodium, Total	mg/L	-0.000349	0.0880	5.00	4.93	5.01	4.92	4.25 to 5.75	98.6	70.0 to 130	1.61	20.0
BD09878	Sulfate	mg/L	-0.0523	2.0	160	263	264	18.9	18.0 to 22.0	100	80.0 to 120	0.380	20.0
BD09723	Thallium, Dissolved	mg/L	-0.000001	0.000147	0.100	0.105	0.108	0.109	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BD09724	Thallium, Total	mg/L	-0.0000082	0.000147	0.100	0.112	0.112	0.110	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD09878	Total Organic Carbon	mg/L	0.0719	1.00	10.0	11.2	12.0	9.75		93.0	80.0 to 120	6.90	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 14:40

**Customer ID:**

**Delivery Date:** 5/24/23 12:01

**Description:** Greene County Ash Pond - MW-54H

**Laboratory ID Number:** BD09723

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09722	Alkalinity	mg CaCO3/L					68.2	49.5	45.0 to 55.0			0.147	10.0
BD09878	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.27	0.154	2.05	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD09723	Solids, Dissolved	mg/L	1.00	25.0			426	53.0	40.0 to 60.0			0.468	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-3

**Location Code:** WMWGREAPFB  
**Collected:** 5/23/23 15:05  
**Customer ID:**  
**Submittal Date:** 5/24/23 12:01

**Laboratory ID Number:** BD09724

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/25/23 14:07	5/26/23 13:49		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/25/23 14:07	5/26/23 13:49		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	5/25/23 14:07	5/26/23 13:49		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	5/25/23 14:07	5/26/23 13:49		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/25/23 14:07	5/26/23 13:49		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	5/25/23 14:07	5/26/23 13:49		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 13:49		1	Not Detected	mg/L			
* Silicon, Total	5/25/23 14:07	5/26/23 13:49		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	5/25/23 14:07	5/26/23 13:49		1.015	Not Detected	mg/L	0.04060	0.406	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/25/23 14:07	5/30/23 14:42		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/25/23 14:07	5/30/23 14:42		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/25/23 14:07	5/30/23 14:42		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	5/25/23 14:07	5/30/23 14:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	5/25/23 14:07	5/30/23 14:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/25/23 14:07	5/30/23 14:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/25/23 14:07	5/30/23 14:42		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/25/23 14:07	5/30/23 14:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/25/23 14:07	5/30/23 14:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/25/23 14:07	5/30/23 14:42		1.015	0.000157	mg/L	0.000152	0.001015	J
* Potassium, Total	5/25/23 14:07	5/30/23 14:42		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	5/25/23 14:07	5/30/23 14:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/25/23 14:07	5/30/23 14:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/26/23 00:59		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 14:10	5/25/23 14:10		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:40	6/1/23 10:10		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-3

**Location Code:** WMWGREAPFB

**Collected:** 5/23/23 15:05

**Customer ID:**

**Submittal Date:** 5/24/23 12:01

**Laboratory ID Number:** BD09724

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 18:38	5/25/23 18:38		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 15:47	5/24/23 15:47		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 13:10	5/25/23 13:10		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 16:09	6/6/23 16:09		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/23/23 15:05

**Customer ID:**

**Delivery Date:** 5/24/23 12:01

**Description:** Greene County Ash Pond Field Blank-3

**Laboratory ID Number:** BD09724

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09724	Aluminum, Total	mg/L	0.00158	0.0198	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD09724	Antimony, Total	mg/L	0.000357	0.00100	0.100	0.105	0.107	0.109	0.0850 to 0.115	105	70.0 to 130	1.89	20.0
BD09724	Arsenic, Total	mg/L	0.0000110	0.000200	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD09724	Barium, Total	mg/L	0.0000264	0.00100	0.100	0.112	0.111	0.111	0.0850 to 0.115	112	70.0 to 130	0.897	20.0
BD09724	Beryllium, Total	mg/L	0.0000350	0.000880	0.100	0.0931	0.0945	0.0929	0.0850 to 0.115	93.1	70.0 to 130	1.49	20.0
BD09724	Boron, Total	mg/L	0.000873	0.0650	1.00	1.02	1.02	1.05	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD09724	Cadmium, Total	mg/L	-0.0000005	0.000147	0.100	0.110	0.112	0.111	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BD09724	Calcium, Total	mg/L	0.0167	0.152	5.00	4.94	4.78	4.99	4.25 to 5.75	98.8	70.0 to 130	3.29	20.0
BD09724	Chloride	mg/L	0.028	1.00	10.0	9.86	9.60	9.83	9.00 to 11.0	98.6	80.0 to 120	2.67	20.0
BD09724	Chromium, Total	mg/L	-0.0000577	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD09724	Cobalt, Total	mg/L	-0.0000174	0.000147	0.100	0.0981	0.100	0.0998	0.0850 to 0.115	98.1	70.0 to 130	1.92	20.0
BD09724	Fluoride	mg/L	0.033	0.125	2.50	2.61	2.56	2.57	2.25 to 2.75	104	80.0 to 120	1.93	20.0
BD09724	Iron, Total	mg/L	0.00582	0.0176	0.2	0.205	0.212	0.211	0.170 to 0.230	102	70.0 to 130	3.36	20.0
BD09724	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.107	0.106	0.106	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09724	Lithium, Total	mg/L	-0.00006	0.0154	0.200	0.200	0.205	0.197	0.170 to 0.230	100	70.0 to 130	2.47	20.0
BD09724	Magnesium, Total	mg/L	0.00974	0.0462	5.00	4.99	4.89	4.98	4.25 to 5.75	99.8	70.0 to 130	2.02	20.0
BD09724	Manganese, Total	mg/L	0.0000290	0.00033	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09878	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00388	0.00388	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.00	20.0
BD09724	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.197	0.202	0.200	0.170 to 0.230	98.5	70.0 to 130	2.51	20.0
BD09724	Potassium, Total	mg/L	0.0166	0.367	10.0	10.1	10.4	10.3	8.50 to 11.5	101	70.0 to 130	2.93	20.0
BD09724	Selenium, Total	mg/L	0.0000410	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD09724	Silicon, Total	mg/L	0.00262	0.0440	1.00	1.02	1.03	1.03	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BD09724	Sodium, Total	mg/L	-0.000349	0.0880	5.00	4.93	5.01	4.92	4.25 to 5.75	98.6	70.0 to 130	1.61	20.0
BD09878	Sulfate	mg/L	-0.0523	2.0	160	263	264	18.9	18.0 to 22.0	100	80.0 to 120	0.380	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/23/23 15:05

**Customer ID:**

**Delivery Date:** 5/24/23 12:01

**Description:** Greene County Ash Pond Field Blank-3

**Laboratory ID Number:** BD09724

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard Limit	Rec		Prec Limit
				Limit	Spike	MS	Rec				Limit	Prec	
BD09724	Thallium, Total	mg/L	-0.0000082	0.000147	0.100	0.112	0.112	0.110	0.0850 to 0.115	112	70.0 to 130	0.00	20.0
BD09878	Total Organic Carbon	mg/L	0.0719	1.00	10.0	11.2	12.0	9.75		93.0	80.0 to 120	6.90	20.0

**Comments:**



# Batch QC Summary

**Customer Account:** WMWGREAPFB  
**Sample Date:** 5/23/23 15:05  
**Customer ID:**  
**Delivery Date:** 5/24/23 12:01

**Description:** Greene County Ash Pond Field Blank-3

**Laboratory ID Number:** BD09724

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09878	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.27	0.154	2.05	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD09723	Solids, Dissolved	mg/L	1.00	25.0			426	53.0	40.0 to 60.0			0.468	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-10

**Location Code:** WMWGREAP  
**Collected:** 5/24/23 08:44  
**Customer ID:**  
**Submittal Date:** 5/25/23 11:16

**Laboratory ID Number:** BD09875

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/31/23 12:04	6/5/23 14:19		1.015	2.30	mg/L	0.030000	0.1015	
* Calcium, Total	5/31/23 12:04	6/5/23 15:19		10.15	108	mg/L	0.70035	4.06	
* Iron, Total	5/31/23 12:04	6/5/23 15:19		10.15	21.7	mg/L	0.08120	0.406	
* Lithium, Total	5/31/23 12:04	6/5/23 14:19		1.015	0.223	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/31/23 12:04	6/5/23 14:19		1.015	21.4	mg/L	0.021315	0.406	
* Molybdenum, Total	5/31/23 12:04	6/5/23 14:19		1.015	0.00638	mg/L	0.005075	0.01015	J
* Silica, Total (calc.)	5/31/23 12:04	6/5/23 14:19		1	10.9	mg/L			
* Silicon, Total	5/31/23 12:04	6/5/23 14:19		1.015	5.10	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/23 12:04	6/5/23 14:19		1.015	31.5	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/31/23 09:10	6/5/23 13:54		1.015	2.30	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/31/23 09:10	6/5/23 15:01		10.15	107	mg/L	0.70035	4.06	
* Iron, Dissolved	5/31/23 09:10	6/5/23 15:01		10.15	21.2	mg/L	0.08120	0.406	
* Lithium, Dissolved	5/31/23 09:10	6/5/23 13:54		1.015	0.236	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/31/23 09:10	6/5/23 13:54		1.015	21.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/31/23 09:10	6/5/23 13:54		1.015	0.00764	mg/L	0.005075	0.01015	J
* Silica, Dissolved (calc.)	5/31/23 09:10	6/5/23 13:54		1	10.7	mg/L			
* Silicon, Dissolved	5/31/23 09:10	6/5/23 13:54		1.015	5.02	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/31/23 09:10	6/5/23 13:54		1.015	31.3	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/31/23 12:04	5/31/23 13:30		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	5/31/23 12:04	5/31/23 13:30		1.015	0.0123	mg/L	0.000112	0.000203	
* Aluminum, Total	5/31/23 12:04	5/31/23 13:30		1.015	0.0145	mg/L	0.009135	0.05075	J
* Barium, Total	5/31/23 12:04	5/31/23 13:30		1.015	0.269	mg/L	0.000508	0.001015	
* Beryllium, Total	5/31/23 12:04	5/31/23 13:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/31/23 12:04	5/31/23 13:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/31/23 12:04	5/31/23 13:30		1.015	0.000338	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/31/23 12:04	5/31/23 13:30		1.015	0.0176	mg/L	0.000068	0.000203	
* Lead, Total	5/31/23 12:04	5/31/23 13:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/31/23 12:04	5/31/23 13:55		5.075	2.92	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-10

**Location Code:** WMWGREAP  
**Collected:** 5/24/23 08:44  
**Customer ID:**  
**Submittal Date:** 5/25/23 11:16

**Laboratory ID Number:** BD09875

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/31/23 12:04	5/31/23 13:30		1.015	8.09	mg/L	0.169505	0.5075	
* Selenium, Total	5/31/23 12:04	5/31/23 13:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/31/23 12:04	5/31/23 13:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/31/23 09:10	5/31/23 09:29		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/31/23 09:10	5/31/23 09:29		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/31/23 09:10	5/31/23 09:29		1.015	0.0131	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/31/23 09:10	5/31/23 09:29		1.015	0.264	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/23 09:10	5/31/23 09:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/23 09:10	5/31/23 09:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/23 09:10	5/31/23 09:29		1.015	0.000244	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/23 09:10	5/31/23 09:29		1.015	0.0160	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/23 09:10	5/31/23 09:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/23 09:10	5/31/23 09:56		5.075	2.98	mg/L	0.000761	0.005075	
* Potassium, Dissolved	5/31/23 09:10	5/31/23 09:29		1.015	7.95	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/23 09:10	5/31/23 09:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/23 09:10	5/31/23 09:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/26/23 01:03		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 14:11	5/25/23 14:11		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/5/23 11:10	6/5/23 13:58		1	271	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/30/23 11:08	6/1/23 13:45		1	490	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/5/23 11:10	6/5/23 13:58		1	271	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/5/23 11:10	6/5/23 13:58		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 18:52	5/25/23 18:52		1	2.95	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-10

**Location Code:** WMWGREAP

**Collected:** 5/24/23 08:44

**Customer ID:**

**Submittal Date:** 5/25/23 11:16

**Laboratory ID Number:** BD09875

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 08:56	6/8/23 08:56		1	13.5	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 13:34	5/25/23 13:34		1	0.303	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 16:21	6/6/23 16:21		8	119	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/24/23 08:41	5/24/23 08:41			750.03	uS/cm			FA
pH	5/24/23 08:41	5/24/23 08:41			6.59	SU			FA
Temperature	5/24/23 08:41	5/24/23 08:41			19.62	C			FA
Turbidity	5/24/23 08:41	5/24/23 08:41			3.38	NTU			FA
Sulfide	5/24/23 08:41	5/24/23 08:41			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 5/24/23 08:44  
**Customer ID:**  
**Delivery Date:** 5/25/23 11:16

**Description:** Greene County Ash Pond - MW-10

**Laboratory ID Number:** BD09875

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD09878	Aluminum, Dissolved	mg/L	-0.000298	0.0198	0.100	0.105	0.103	0.102	0.0850 to 0.115	105	70.0 to 130	1.92	20.0	
BD09878	Aluminum, Total	mg/L	0.000866	0.0198	0.100	0.107	0.106	0.109	0.0850 to 0.115	107	70.0 to 130	0.939	20.0	
BD09878	Antimony, Dissolved	mg/L	0.000321	0.00100	0.100	0.0900	0.0931	0.0913	0.0850 to 0.115	90.0	70.0 to 130	3.39	20.0	
BD09878	Antimony, Total	mg/L	0.000332	0.00100	0.100	0.0993	0.101	0.0923	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0	
BD09878	Arsenic, Dissolved	mg/L	0.0000133	0.000200	0.100	0.115	0.118	0.100	0.0850 to 0.115	103	70.0 to 130	2.58	20.0	
BD09878	Arsenic, Total	mg/L	0.0000116	0.000200	0.100	0.114	0.113	0.100	0.0850 to 0.115	103	70.0 to 130	0.881	20.0	
BD09878	Barium, Dissolved	mg/L	-0.0000034	0.00100	0.100	0.253	0.255	0.0984	0.0850 to 0.115	94.0	70.0 to 130	0.787	20.0	
BD09878	Barium, Total	mg/L	0.0000350	0.00100	0.100	0.256	0.262	0.0987	0.0850 to 0.115	94.0	70.0 to 130	2.32	20.0	
BD09878	Beryllium, Dissolved	mg/L	0.0000397	0.000880	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0	
BD09878	Beryllium, Total	mg/L	0.0000144	0.000880	0.100	0.0939	0.0974	0.0968	0.0850 to 0.115	93.9	70.0 to 130	3.66	20.0	
BD09878	Boron, Dissolved	mg/L	-0.000185	0.0650	1.00	2.23	2.23	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0	
BD09878	Boron, Total	mg/L	0.000475	0.0650	1.00	2.27	2.26	1.04	0.850 to 1.15	106	70.0 to 130	0.442	20.0	
BD09878	Cadmium, Dissolved	mg/L	0.0000053	0.000147	0.100	0.0976	0.102	0.0984	0.0850 to 0.115	97.6	70.0 to 130	4.41	20.0	
BD09878	Cadmium, Total	mg/L	0.0000158	0.000147	0.100	0.100	0.100	0.0983	0.0850 to 0.115	100	70.0 to 130	0.00	20.0	
BD09878	Calcium, Dissolved	mg/L	0.00117	0.152	5.00	126	121	5.05	4.25 to 5.75	80.0	70.0 to 130	4.05	20.0	
BD09878	Calcium, Total	mg/L	0.00349	0.152	5.00	115	107	4.97	4.25 to 5.75	20.0	70.0 to 130	7.21	20.0	
BD10171	Chloride	mg/L	0.000394	1.00	160	259	262	9.94	9.00 to 11.0	96.2	80.0 to 120	1.15	20.0	
BD09878	Chromium, Dissolved	mg/L	0.0000120	0.000440	0.100	0.102	0.0999	0.0995	0.0850 to 0.115	102	70.0 to 130	2.08	20.0	
BD09878	Chromium, Total	mg/L	0.000177	0.000440	0.100	0.0969	0.0955	0.102	0.0850 to 0.115	96.7	70.0 to 130	1.46	20.0	
BD09878	Cobalt, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.122	0.121	0.102	0.0850 to 0.115	104	70.0 to 130	0.823	20.0	
BD09878	Cobalt, Total	mg/L	0.0000038	0.000147	0.100	0.116	0.115	0.105	0.0850 to 0.115	97.9	70.0 to 130	0.866	20.0	
BD09878	Fluoride	mg/L	0.0359	0.125	2.50	2.77	2.81	2.59	2.25 to 2.75	106	80.0 to 120	1.43	20.0	
BD09878	Iron, Dissolved	mg/L	0.00531	0.0176	0.2	12.5	12.1	0.208	0.170 to 0.230	-100	70.0 to 130	3.25	20.0	
BD09878	Iron, Total	mg/L	0.0149	0.0176	0.2	11.8	11.3	0.217	0.170 to 0.230	-200	70.0 to 130	4.33	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/24/23 08:44

**Customer ID:**

**Delivery Date:** 5/25/23 11:16

**Description:** Greene County Ash Pond - MW-10

**Laboratory ID Number:** BD09875

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09878	Lead, Dissolved	mg/L	0.0000153	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD09878	Lead, Total	mg/L	0.0000077	0.000147	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD09878	Lithium, Dissolved	mg/L	-0.000198	0.0154	0.200	0.388	0.383	0.201	0.170 to 0.230	104	70.0 to 130	1.30	20.0
BD09878	Lithium, Total	mg/L	-0.000104	0.0154	0.200	0.396	0.400	0.211	0.170 to 0.230	106	70.0 to 130	1.01	20.0
BD09878	Magnesium, Dissolved	mg/L	0.000166	0.0462	5.00	35.4	35.2	5.02	4.25 to 5.75	92.0	70.0 to 130	0.567	20.0
BD09878	Magnesium, Total	mg/L	0.00972	0.0462	5.00	36.3	36.6	5.11	4.25 to 5.75	100	70.0 to 130	0.823	20.0
BD09878	Manganese, Dissolved	mg/L	-0.0000072	0.00033	0.100	9.92	9.94	0.104	0.0850 to 0.115	250	70.0 to 130	0.201	20.0
BD09878	Manganese, Total	mg/L	0.0000588	0.00033	0.100	10.3	10.2	0.106	0.0850 to 0.115	550	70.0 to 130	0.976	20.0
BD09878	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00388	0.00388	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.00	20.0
BD09878	Molybdenum, Dissolved	mg/L	-0.00208	0.0100	0.2	0.210	0.211	0.209	0.170 to 0.230	105	70.0 to 130	0.475	20.0
BD09878	Molybdenum, Total	mg/L	-0.002	0.0100	0.2	0.212	0.214	0.210	0.170 to 0.230	106	70.0 to 130	0.939	20.0
BD09878	Potassium, Dissolved	mg/L	0.00219	0.367	10.0	19.2	18.9	10.4	8.50 to 11.5	107	70.0 to 130	1.57	20.0
BD09878	Potassium, Total	mg/L	0.0174	0.367	10.0	18.8	18.8	10.7	8.50 to 11.5	99.4	70.0 to 130	0.00	20.0
BD09878	Selenium, Dissolved	mg/L	0.0000340	0.00100	0.100	0.107	0.107	0.103	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD09878	Selenium, Total	mg/L	0.000247	0.00100	0.100	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD09878	Silicon, Dissolved	mg/L	0.000236	0.0440	1.00	5.44	5.47	1.04	0.850 to 1.15	96.0	70.0 to 130	0.550	20.0
BD09878	Silicon, Total	mg/L	0.00132	0.0440	1.00	5.50	5.48	1.05	0.850 to 1.15	104	70.0 to 130	0.364	20.0
BD09878	Sodium, Dissolved	mg/L	-0.000708	0.0880	5.00	60.7	59.3	4.97	4.25 to 5.75	84.0	70.0 to 130	2.33	20.0
BD09878	Sodium, Total	mg/L	0.00577	0.0880	5.00	57.7	54.4	5.16	4.25 to 5.75	86.0	70.0 to 130	5.89	20.0
BD09878	Sulfate	mg/L	-0.0523	2.0	160	263	264	18.9	18.0 to 22.0	100	80.0 to 120	0.380	20.0
BD09878	Thallium, Dissolved	mg/L	0.0000107	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD09878	Thallium, Total	mg/L	0.0000050	0.000147	0.100	0.107	0.102	0.105	0.0850 to 0.115	107	70.0 to 130	4.78	20.0
BD09878	Total Organic Carbon	mg/L	0.0719	1.00	10.0	11.2	12.0	9.75		93.0	80.0 to 120	6.90	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/24/23 08:44

**Customer ID:**

**Delivery Date:** 5/25/23 11:16

**Description:** Greene County Ash Pond - MW-10

**Laboratory ID Number:** BD09875

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09722	Alkalinity	mg CaCO3/L					68.2	49.5	45.0 to 55.0			0.147	10.0
BD09878	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.27	0.154	2.05	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD09878	Solids, Dissolved	mg/L	1.00	25.0			580	55.0	40.0 to 60.0			0.345	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-14

**Location Code:** WMWGREAP  
**Collected:** 5/24/23 10:16  
**Customer ID:**  
**Submittal Date:** 5/25/23 11:16

**Laboratory ID Number:** BD09876

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/31/23 12:04	6/5/23 14:23		1.015	1.82	mg/L	0.030000	0.1015	
* Calcium, Total	5/31/23 12:04	6/5/23 15:23		101.5	119	mg/L	7.0035	40.6	
* Iron, Total	5/31/23 12:04	6/5/23 15:23		101.5	58.1	mg/L	0.8120	4.06	
* Lithium, Total	5/31/23 12:04	6/5/23 14:23		1.015	0.578	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/31/23 12:04	6/5/23 14:23		1.015	28.5	mg/L	0.021315	0.406	
* Molybdenum, Total	5/31/23 12:04	6/5/23 14:23		1.015	0.0152	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	5/31/23 12:04	6/5/23 14:23		1	14.0	mg/L			
* Silicon, Total	5/31/23 12:04	6/5/23 14:23		1.015	6.54	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/23 12:04	6/5/23 14:23		1.015	32.6	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/31/23 09:10	6/5/23 13:57		1.015	1.84	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/31/23 09:10	6/5/23 15:04		101.5	135	mg/L	7.0035	40.6	
* Iron, Dissolved	5/31/23 09:10	6/5/23 15:04		101.5	64.8	mg/L	0.8120	4.06	
* Lithium, Dissolved	5/31/23 09:10	6/5/23 13:57		1.015	0.564	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/31/23 09:10	6/5/23 13:57		1.015	28.2	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/31/23 09:10	6/5/23 13:57		1.015	0.0143	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	5/31/23 09:10	6/5/23 13:57		1	14.0	mg/L			
* Silicon, Dissolved	5/31/23 09:10	6/5/23 13:57		1.015	6.53	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/31/23 09:10	6/5/23 13:57		1.015	32.9	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/31/23 12:04	5/31/23 13:33		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	5/31/23 12:04	5/31/23 13:33		1.015	0.0277	mg/L	0.000112	0.000203	
* Aluminum, Total	5/31/23 12:04	5/31/23 13:33		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	5/31/23 12:04	5/31/23 13:33		1.015	0.127	mg/L	0.000508	0.001015	
* Beryllium, Total	5/31/23 12:04	5/31/23 13:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/31/23 12:04	5/31/23 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/31/23 12:04	5/31/23 13:33		1.015	0.000305	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/31/23 12:04	5/31/23 13:33		1.015	0.0346	mg/L	0.000068	0.000203	
* Lead, Total	5/31/23 12:04	5/31/23 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/31/23 12:04	5/31/23 13:58		5.075	5.43	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-14

**Location Code:** WMWGREAP  
**Collected:** 5/24/23 10:16  
**Customer ID:**  
**Submittal Date:** 5/25/23 11:16

**Laboratory ID Number:** BD09876

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/31/23 12:04	5/31/23 13:33		1.015	12.2	mg/L	0.169505	0.5075	
* Selenium, Total	5/31/23 12:04	5/31/23 13:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/31/23 12:04	5/31/23 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/31/23 09:10	5/31/23 09:32		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/31/23 09:10	5/31/23 09:32		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/31/23 09:10	5/31/23 09:32		1.015	0.0263	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/31/23 09:10	5/31/23 09:32		1.015	0.125	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/23 09:10	5/31/23 09:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/23 09:10	5/31/23 09:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/23 09:10	5/31/23 09:32		1.015	0.000209	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/23 09:10	5/31/23 09:32		1.015	0.0341	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/23 09:10	5/31/23 09:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/23 09:10	5/31/23 10:00		5.075	5.04	mg/L	0.000761	0.005075	
* Potassium, Dissolved	5/31/23 09:10	5/31/23 09:32		1.015	11.7	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/23 09:10	5/31/23 09:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/23 09:10	5/31/23 09:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/26/23 01:07		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 14:12	5/25/23 14:12		1	0.212	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/5/23 11:10	6/5/23 13:58		1	321	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/30/23 11:08	6/1/23 13:45		1	650	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/5/23 11:10	6/5/23 13:58		1	321	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	6/5/23 11:10	6/5/23 13:58		1	Not Detected	mg CaCO3/L		0.5	A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 19:06	5/25/23 19:06		1	2.45	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-14

**Location Code:** WMWGREAP

**Collected:** 5/24/23 10:16

**Customer ID:**

**Submittal Date:** 5/25/23 11:16

**Laboratory ID Number:** BD09876

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 08:57	6/8/23 08:57		1	10.0	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 13:35	5/25/23 13:35		1	0.258	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 16:22	6/6/23 16:22		10	178	mg/L	6.0	20	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/24/23 10:13	5/24/23 10:13			968.17	uS/cm			FA
pH	5/24/23 10:13	5/24/23 10:13			6.40	SU			FA
Temperature	5/24/23 10:13	5/24/23 10:13			19.62	C			FA
Turbidity	5/24/23 10:13	5/24/23 10:13			7.63	NTU			FA
Sulfide	5/24/23 10:13	5/24/23 10:13			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/24/23 10:16

**Customer ID:**

**Delivery Date:** 5/25/23 11:16

**Description:** Greene County Ash Pond - MW-14

**Laboratory ID Number:** BD09876

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD09878	Aluminum, Dissolved	mg/L	-0.000298	0.0198	0.100	0.105	0.103	0.102	0.0850 to 0.115	105	70.0 to 130	1.92	20.0	
BD09878	Aluminum, Total	mg/L	0.000866	0.0198	0.100	0.107	0.106	0.109	0.0850 to 0.115	107	70.0 to 130	0.939	20.0	
BD09878	Antimony, Dissolved	mg/L	0.000321	0.00100	0.100	0.0900	0.0931	0.0913	0.0850 to 0.115	90.0	70.0 to 130	3.39	20.0	
BD09878	Antimony, Total	mg/L	0.000332	0.00100	0.100	0.0993	0.101	0.0923	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0	
BD09878	Arsenic, Dissolved	mg/L	0.0000133	0.000200	0.100	0.115	0.118	0.100	0.0850 to 0.115	103	70.0 to 130	2.58	20.0	
BD09878	Arsenic, Total	mg/L	0.0000116	0.000200	0.100	0.114	0.113	0.100	0.0850 to 0.115	103	70.0 to 130	0.881	20.0	
BD09878	Barium, Dissolved	mg/L	-0.0000034	0.00100	0.100	0.253	0.255	0.0984	0.0850 to 0.115	94.0	70.0 to 130	0.787	20.0	
BD09878	Barium, Total	mg/L	0.0000350	0.00100	0.100	0.256	0.262	0.0987	0.0850 to 0.115	94.0	70.0 to 130	2.32	20.0	
BD09878	Beryllium, Dissolved	mg/L	0.0000397	0.000880	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0	
BD09878	Beryllium, Total	mg/L	0.0000144	0.000880	0.100	0.0939	0.0974	0.0968	0.0850 to 0.115	93.9	70.0 to 130	3.66	20.0	
BD09878	Boron, Dissolved	mg/L	-0.000185	0.0650	1.00	2.23	2.23	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0	
BD09878	Boron, Total	mg/L	0.000475	0.0650	1.00	2.27	2.26	1.04	0.850 to 1.15	106	70.0 to 130	0.442	20.0	
BD09878	Cadmium, Dissolved	mg/L	0.0000053	0.000147	0.100	0.0976	0.102	0.0984	0.0850 to 0.115	97.6	70.0 to 130	4.41	20.0	
BD09878	Cadmium, Total	mg/L	0.0000158	0.000147	0.100	0.100	0.100	0.0983	0.0850 to 0.115	100	70.0 to 130	0.00	20.0	
BD09878	Calcium, Dissolved	mg/L	0.00117	0.152	5.00	126	121	5.05	4.25 to 5.75	80.0	70.0 to 130	4.05	20.0	
BD09878	Calcium, Total	mg/L	0.00349	0.152	5.00	115	107	4.97	4.25 to 5.75	20.0	70.0 to 130	7.21	20.0	
BD10171	Chloride	mg/L	0.000394	1.00	160	259	262	9.94	9.00 to 11.0	96.2	80.0 to 120	1.15	20.0	
BD09878	Chromium, Dissolved	mg/L	0.0000120	0.000440	0.100	0.102	0.0999	0.0995	0.0850 to 0.115	102	70.0 to 130	2.08	20.0	
BD09878	Chromium, Total	mg/L	0.000177	0.000440	0.100	0.0969	0.0955	0.102	0.0850 to 0.115	96.7	70.0 to 130	1.46	20.0	
BD09878	Cobalt, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.122	0.121	0.102	0.0850 to 0.115	104	70.0 to 130	0.823	20.0	
BD09878	Cobalt, Total	mg/L	0.0000038	0.000147	0.100	0.116	0.115	0.105	0.0850 to 0.115	97.9	70.0 to 130	0.866	20.0	
BD09878	Fluoride	mg/L	0.0359	0.125	2.50	2.77	2.81	2.59	2.25 to 2.75	106	80.0 to 120	1.43	20.0	
BD09878	Iron, Dissolved	mg/L	0.00531	0.0176	0.2	12.5	12.1	0.208	0.170 to 0.230	-100	70.0 to 130	3.25	20.0	
BD09878	Iron, Total	mg/L	0.0149	0.0176	0.2	11.8	11.3	0.217	0.170 to 0.230	-200	70.0 to 130	4.33	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/24/23 10:16

**Customer ID:**

**Delivery Date:** 5/25/23 11:16

**Description:** Greene County Ash Pond - MW-14

**Laboratory ID Number:** BD09876

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09878	Lead, Dissolved	mg/L	0.0000153	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD09878	Lead, Total	mg/L	0.0000077	0.000147	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD09878	Lithium, Dissolved	mg/L	-0.000198	0.0154	0.200	0.388	0.383	0.201	0.170 to 0.230	104	70.0 to 130	1.30	20.0
BD09878	Lithium, Total	mg/L	-0.000104	0.0154	0.200	0.396	0.400	0.211	0.170 to 0.230	106	70.0 to 130	1.01	20.0
BD09878	Magnesium, Dissolved	mg/L	0.000166	0.0462	5.00	35.4	35.2	5.02	4.25 to 5.75	92.0	70.0 to 130	0.567	20.0
BD09878	Magnesium, Total	mg/L	0.00972	0.0462	5.00	36.3	36.6	5.11	4.25 to 5.75	100	70.0 to 130	0.823	20.0
BD09878	Manganese, Dissolved	mg/L	-0.0000072	0.00033	0.100	9.92	9.94	0.104	0.0850 to 0.115	250	70.0 to 130	0.201	20.0
BD09878	Manganese, Total	mg/L	0.0000588	0.00033	0.100	10.3	10.2	0.106	0.0850 to 0.115	550	70.0 to 130	0.976	20.0
BD09878	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00388	0.00388	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.00	20.0
BD09878	Molybdenum, Dissolved	mg/L	-0.00208	0.0100	0.2	0.210	0.211	0.209	0.170 to 0.230	105	70.0 to 130	0.475	20.0
BD09878	Molybdenum, Total	mg/L	-0.002	0.0100	0.2	0.212	0.214	0.210	0.170 to 0.230	106	70.0 to 130	0.939	20.0
BD09878	Potassium, Dissolved	mg/L	0.00219	0.367	10.0	19.2	18.9	10.4	8.50 to 11.5	107	70.0 to 130	1.57	20.0
BD09878	Potassium, Total	mg/L	0.0174	0.367	10.0	18.8	18.8	10.7	8.50 to 11.5	99.4	70.0 to 130	0.00	20.0
BD09878	Selenium, Dissolved	mg/L	0.0000340	0.00100	0.100	0.107	0.107	0.103	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD09878	Selenium, Total	mg/L	0.000247	0.00100	0.100	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD09878	Silicon, Dissolved	mg/L	0.000236	0.0440	1.00	5.44	5.47	1.04	0.850 to 1.15	96.0	70.0 to 130	0.550	20.0
BD09878	Silicon, Total	mg/L	0.00132	0.0440	1.00	5.50	5.48	1.05	0.850 to 1.15	104	70.0 to 130	0.364	20.0
BD09878	Sodium, Dissolved	mg/L	-0.000708	0.0880	5.00	60.7	59.3	4.97	4.25 to 5.75	84.0	70.0 to 130	2.33	20.0
BD09878	Sodium, Total	mg/L	0.00577	0.0880	5.00	57.7	54.4	5.16	4.25 to 5.75	86.0	70.0 to 130	5.89	20.0
BD09878	Sulfate	mg/L	-0.0523	2.0	160	263	264	18.9	18.0 to 22.0	100	80.0 to 120	0.380	20.0
BD09878	Thallium, Dissolved	mg/L	0.0000107	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD09878	Thallium, Total	mg/L	0.0000050	0.000147	0.100	0.107	0.102	0.105	0.0850 to 0.115	107	70.0 to 130	4.78	20.0
BD09878	Total Organic Carbon	mg/L	0.0719	1.00	10.0	11.2	12.0	9.75		93.0	80.0 to 120	6.90	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/24/23 10:16

**Customer ID:**

**Delivery Date:** 5/25/23 11:16

**Description:** Greene County Ash Pond - MW-14

**Laboratory ID Number:** BD09876

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09722	Alkalinity	mg CaCO3/L					68.2	49.5	45.0 to 55.0			0.147	10.0
BD09878	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.27	0.154	2.05	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD09878	Solids, Dissolved	mg/L	1.00	25.0			580	55.0	40.0 to 60.0			0.345	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-39H

**Location Code:** WMWGREAP  
**Collected:** 5/24/23 11:23  
**Customer ID:**  
**Submittal Date:** 5/25/23 11:16

**Laboratory ID Number:** BD09877

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/31/23 12:04	6/5/23 14:26		1.015	2.19	mg/L	0.030000	0.1015	
* Calcium, Total	5/31/23 12:04	6/5/23 15:26		10.15	126	mg/L	0.70035	4.06	
* Iron, Total	5/31/23 12:04	6/5/23 15:26		10.15	31.2	mg/L	0.08120	0.406	
* Lithium, Total	5/31/23 12:04	6/5/23 14:26		1.015	0.378	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/31/23 12:04	6/5/23 14:26		1.015	24.9	mg/L	0.021315	0.406	
* Molybdenum, Total	5/31/23 12:04	6/5/23 14:26		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/31/23 12:04	6/5/23 14:26		1	11.3	mg/L			
* Silicon, Total	5/31/23 12:04	6/5/23 14:26		1.015	5.29	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/23 12:04	6/5/23 14:26		1.015	29.0	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/31/23 09:10	6/5/23 14:00		1.015	2.19	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/31/23 09:10	6/5/23 15:07		10.15	141	mg/L	0.70035	4.06	
* Iron, Dissolved	5/31/23 09:10	6/5/23 15:07		10.15	34.3	mg/L	0.08120	0.406	
* Lithium, Dissolved	5/31/23 09:10	6/5/23 14:00		1.015	0.378	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/31/23 09:10	6/5/23 14:00		1.015	24.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/31/23 09:10	6/5/23 14:00		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/31/23 09:10	6/5/23 14:00		1	11.3	mg/L			
* Silicon, Dissolved	5/31/23 09:10	6/5/23 14:00		1.015	5.30	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/31/23 09:10	6/5/23 14:00		1.015	29.1	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/31/23 12:04	5/31/23 13:37		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	5/31/23 12:04	5/31/23 13:37		1.015	0.0595	mg/L	0.000112	0.000203	
* Aluminum, Total	5/31/23 12:04	5/31/23 13:37		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	5/31/23 12:04	5/31/23 13:37		1.015	0.249	mg/L	0.000508	0.001015	
* Beryllium, Total	5/31/23 12:04	5/31/23 13:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/31/23 12:04	5/31/23 13:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/31/23 12:04	5/31/23 13:37		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/31/23 12:04	5/31/23 13:37		1.015	0.0153	mg/L	0.000068	0.000203	
* Lead, Total	5/31/23 12:04	5/31/23 13:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/31/23 12:04	5/31/23 14:02		5.075	3.72	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-39H

**Location Code:** WMWGREAP

**Collected:** 5/24/23 11:23

**Customer ID:**

**Submittal Date:** 5/25/23 11:16

**Laboratory ID Number:** BD09877

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/31/23 12:04	5/31/23 13:37		1.015	13.1	mg/L	0.169505	0.5075	
* Selenium, Total	5/31/23 12:04	5/31/23 13:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/31/23 12:04	5/31/23 13:37		1.015	0.000665	mg/L	0.000068	0.000203	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/31/23 09:10	5/31/23 09:36		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/31/23 09:10	5/31/23 09:36		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/31/23 09:10	5/31/23 09:36		1.015	0.0615	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/31/23 09:10	5/31/23 09:36		1.015	0.243	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/23 09:10	5/31/23 09:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/23 09:10	5/31/23 09:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/23 09:10	5/31/23 09:36		1.015	0.000217	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/23 09:10	5/31/23 09:36		1.015	0.0157	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/23 09:10	5/31/23 09:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/23 09:10	5/31/23 10:04		5.075	3.78	mg/L	0.000761	0.005075	
* Potassium, Dissolved	5/31/23 09:10	5/31/23 09:36		1.015	13.1	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/23 09:10	5/31/23 09:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/23 09:10	5/31/23 09:36		1.015	0.000670	mg/L	0.000068	0.000203	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/26/23 01:11		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 14:13	5/25/23 14:13		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/5/23 11:10	6/5/23 13:58		1	442	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/30/23 11:08	6/1/23 13:45		1	512	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/5/23 11:10	6/5/23 13:58		1	442	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	6/5/23 11:10	6/5/23 13:58		1	Not Detected	mg CaCO3/L		0.5	A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 19:23	5/25/23 19:23		1	1.81	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-39H

**Location Code:** WMWGREAP

**Collected:** 5/24/23 11:23

**Customer ID:**

**Submittal Date:** 5/25/23 11:16

**Laboratory ID Number:** BD09877

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 08:58	6/8/23 08:58		1	6.51	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 13:36	5/25/23 13:36		1	0.442	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 16:13	6/6/23 16:13		1	26.2	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/24/23 11:20	5/24/23 11:20			808.79	uS/cm			FA
pH	5/24/23 11:20	5/24/23 11:20			6.47	SU			FA
Temperature	5/24/23 11:20	5/24/23 11:20			19.52	C			FA
Turbidity	5/24/23 11:20	5/24/23 11:20			1.98	NTU			FA
Sulfide	5/24/23 11:20	5/24/23 11:20			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 5/24/23 11:23  
**Customer ID:**  
**Delivery Date:** 5/25/23 11:16

**Description:** Greene County Ash Pond - MW-39H

**Laboratory ID Number:** BD09877

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD09878	Aluminum, Dissolved	mg/L	-0.000298	0.0198	0.100	0.105	0.103	0.102	0.0850 to 0.115	105	70.0 to 130	1.92	20.0	
BD09878	Aluminum, Total	mg/L	0.000866	0.0198	0.100	0.107	0.106	0.109	0.0850 to 0.115	107	70.0 to 130	0.939	20.0	
BD09878	Antimony, Dissolved	mg/L	0.000321	0.00100	0.100	0.0900	0.0931	0.0913	0.0850 to 0.115	90.0	70.0 to 130	3.39	20.0	
BD09878	Antimony, Total	mg/L	0.000332	0.00100	0.100	0.0993	0.101	0.0923	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0	
BD09878	Arsenic, Dissolved	mg/L	0.0000133	0.000200	0.100	0.115	0.118	0.100	0.0850 to 0.115	103	70.0 to 130	2.58	20.0	
BD09878	Arsenic, Total	mg/L	0.0000116	0.000200	0.100	0.114	0.113	0.100	0.0850 to 0.115	103	70.0 to 130	0.881	20.0	
BD09878	Barium, Dissolved	mg/L	-0.0000034	0.00100	0.100	0.253	0.255	0.0984	0.0850 to 0.115	94.0	70.0 to 130	0.787	20.0	
BD09878	Barium, Total	mg/L	0.0000350	0.00100	0.100	0.256	0.262	0.0987	0.0850 to 0.115	94.0	70.0 to 130	2.32	20.0	
BD09878	Beryllium, Dissolved	mg/L	0.0000397	0.000880	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0	
BD09878	Beryllium, Total	mg/L	0.0000144	0.000880	0.100	0.0939	0.0974	0.0968	0.0850 to 0.115	93.9	70.0 to 130	3.66	20.0	
BD09878	Boron, Dissolved	mg/L	-0.000185	0.0650	1.00	2.23	2.23	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0	
BD09878	Boron, Total	mg/L	0.000475	0.0650	1.00	2.27	2.26	1.04	0.850 to 1.15	106	70.0 to 130	0.442	20.0	
BD09878	Cadmium, Dissolved	mg/L	0.0000053	0.000147	0.100	0.0976	0.102	0.0984	0.0850 to 0.115	97.6	70.0 to 130	4.41	20.0	
BD09878	Cadmium, Total	mg/L	0.0000158	0.000147	0.100	0.100	0.100	0.0983	0.0850 to 0.115	100	70.0 to 130	0.00	20.0	
BD09878	Calcium, Dissolved	mg/L	0.00117	0.152	5.00	126	121	5.05	4.25 to 5.75	80.0	70.0 to 130	4.05	20.0	
BD09878	Calcium, Total	mg/L	0.00349	0.152	5.00	115	107	4.97	4.25 to 5.75	20.0	70.0 to 130	7.21	20.0	
BD10171	Chloride	mg/L	0.000394	1.00	160	259	262	9.94	9.00 to 11.0	96.2	80.0 to 120	1.15	20.0	
BD09878	Chromium, Dissolved	mg/L	0.0000120	0.000440	0.100	0.102	0.0999	0.0995	0.0850 to 0.115	102	70.0 to 130	2.08	20.0	
BD09878	Chromium, Total	mg/L	0.000177	0.000440	0.100	0.0969	0.0955	0.102	0.0850 to 0.115	96.7	70.0 to 130	1.46	20.0	
BD09878	Cobalt, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.122	0.121	0.102	0.0850 to 0.115	104	70.0 to 130	0.823	20.0	
BD09878	Cobalt, Total	mg/L	0.0000038	0.000147	0.100	0.116	0.115	0.105	0.0850 to 0.115	97.9	70.0 to 130	0.866	20.0	
BD09878	Fluoride	mg/L	0.0359	0.125	2.50	2.77	2.81	2.59	2.25 to 2.75	106	80.0 to 120	1.43	20.0	
BD09878	Iron, Dissolved	mg/L	0.00531	0.0176	0.2	12.5	12.1	0.208	0.170 to 0.230	-100	70.0 to 130	3.25	20.0	
BD09878	Iron, Total	mg/L	0.0149	0.0176	0.2	11.8	11.3	0.217	0.170 to 0.230	-200	70.0 to 130	4.33	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/24/23 11:23

**Customer ID:**

**Delivery Date:** 5/25/23 11:16

**Description:** Greene County Ash Pond - MW-39H

**Laboratory ID Number:** BD09877

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09878	Lead, Dissolved	mg/L	0.0000153	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD09878	Lead, Total	mg/L	0.0000077	0.000147	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD09878	Lithium, Dissolved	mg/L	-0.000198	0.0154	0.200	0.388	0.383	0.201	0.170 to 0.230	104	70.0 to 130	1.30	20.0
BD09878	Lithium, Total	mg/L	-0.000104	0.0154	0.200	0.396	0.400	0.211	0.170 to 0.230	106	70.0 to 130	1.01	20.0
BD09878	Magnesium, Dissolved	mg/L	0.000166	0.0462	5.00	35.4	35.2	5.02	4.25 to 5.75	92.0	70.0 to 130	0.567	20.0
BD09878	Magnesium, Total	mg/L	0.00972	0.0462	5.00	36.3	36.6	5.11	4.25 to 5.75	100	70.0 to 130	0.823	20.0
BD09878	Manganese, Dissolved	mg/L	-0.0000072	0.00033	0.100	9.92	9.94	0.104	0.0850 to 0.115	250	70.0 to 130	0.201	20.0
BD09878	Manganese, Total	mg/L	0.0000588	0.00033	0.100	10.3	10.2	0.106	0.0850 to 0.115	550	70.0 to 130	0.976	20.0
BD09878	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00388	0.00388	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.00	20.0
BD09878	Molybdenum, Dissolved	mg/L	-0.00208	0.0100	0.2	0.210	0.211	0.209	0.170 to 0.230	105	70.0 to 130	0.475	20.0
BD09878	Molybdenum, Total	mg/L	-0.002	0.0100	0.2	0.212	0.214	0.210	0.170 to 0.230	106	70.0 to 130	0.939	20.0
BD09878	Potassium, Dissolved	mg/L	0.00219	0.367	10.0	19.2	18.9	10.4	8.50 to 11.5	107	70.0 to 130	1.57	20.0
BD09878	Potassium, Total	mg/L	0.0174	0.367	10.0	18.8	18.8	10.7	8.50 to 11.5	99.4	70.0 to 130	0.00	20.0
BD09878	Selenium, Dissolved	mg/L	0.0000340	0.00100	0.100	0.107	0.107	0.103	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD09878	Selenium, Total	mg/L	0.000247	0.00100	0.100	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD09878	Silicon, Dissolved	mg/L	0.000236	0.0440	1.00	5.44	5.47	1.04	0.850 to 1.15	96.0	70.0 to 130	0.550	20.0
BD09878	Silicon, Total	mg/L	0.00132	0.0440	1.00	5.50	5.48	1.05	0.850 to 1.15	104	70.0 to 130	0.364	20.0
BD09878	Sodium, Dissolved	mg/L	-0.000708	0.0880	5.00	60.7	59.3	4.97	4.25 to 5.75	84.0	70.0 to 130	2.33	20.0
BD09878	Sodium, Total	mg/L	0.00577	0.0880	5.00	57.7	54.4	5.16	4.25 to 5.75	86.0	70.0 to 130	5.89	20.0
BD09878	Sulfate	mg/L	-0.0523	2.0	160	263	264	18.9	18.0 to 22.0	100	80.0 to 120	0.380	20.0
BD09878	Thallium, Dissolved	mg/L	0.0000107	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD09878	Thallium, Total	mg/L	0.0000050	0.000147	0.100	0.107	0.102	0.105	0.0850 to 0.115	107	70.0 to 130	4.78	20.0
BD09878	Total Organic Carbon	mg/L	0.0719	1.00	10.0	11.2	12.0	9.75		93.0	80.0 to 120	6.90	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/24/23 11:23

**Customer ID:**

**Delivery Date:** 5/25/23 11:16

**Description:** Greene County Ash Pond - MW-39H

**Laboratory ID Number:** BD09877

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09722	Alkalinity	mg CaCO3/L					68.2	49.5	45.0 to 55.0			0.147	10.0
BD09878	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.27	0.154	2.05	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD09878	Solids, Dissolved	mg/L	1.00	25.0			580	55.0	40.0 to 60.0			0.345	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-43H

**Location Code:** WMWGREAP  
**Collected:** 5/24/23 13:58  
**Customer ID:**  
**Submittal Date:** 5/25/23 11:16

**Laboratory ID Number:** BD09878

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	5/31/23 12:04	6/5/23 14:29		1.015	1.21	mg/L	0.030000	0.1015		
* Calcium, Total	5/31/23 12:04	6/5/23 15:29		10.15	114	mg/L	0.70035	4.06	RA	
* Iron, Total	5/31/23 12:04	6/5/23 15:29		10.15	12.2	mg/L	0.08120	0.406	RA	
* Lithium, Total	5/31/23 12:04	6/5/23 14:29		1.015	0.184	mg/L	0.007105	0.01999956		
* Magnesium, Total	5/31/23 12:04	6/5/23 14:29		1.015	31.3	mg/L	0.021315	0.406		
* Molybdenum, Total	5/31/23 12:04	6/5/23 14:29		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	5/31/23 12:04	6/5/23 14:29		1	9.54	mg/L				
* Silicon, Total	5/31/23 12:04	6/5/23 14:29		1.015	4.46	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/23 12:04	6/5/23 15:29		10.15	53.4	mg/L	0.4060	4.06	RA	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	5/31/23 09:10	6/5/23 14:04		1.015	1.19	mg/L	0.030000	0.1015		
* Calcium, Dissolved	5/31/23 09:10	6/5/23 15:10		10.15	122	mg/L	0.70035	4.06	RA	
* Iron, Dissolved	5/31/23 09:10	6/5/23 15:10		10.15	12.7	mg/L	0.08120	0.406	RA	
* Lithium, Dissolved	5/31/23 09:10	6/5/23 14:04		1.015	0.179	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	5/31/23 09:10	6/5/23 14:04		1.015	30.8	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	5/31/23 09:10	6/5/23 14:04		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	5/31/23 09:10	6/5/23 14:04		1	9.59	mg/L				
* Silicon, Dissolved	5/31/23 09:10	6/5/23 14:04		1.015	4.48	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/31/23 09:10	6/5/23 15:10		10.15	56.5	mg/L	0.4060	4.06	RA	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	5/31/23 12:04	5/31/23 13:40		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	5/31/23 12:04	5/31/23 13:40		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	5/31/23 12:04	5/31/23 13:40		1.015	0.0113	mg/L	0.000112	0.000203		
* Barium, Total	5/31/23 12:04	5/31/23 13:40		1.015	0.162	mg/L	0.000508	0.001015		
* Beryllium, Total	5/31/23 12:04	5/31/23 13:40		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/31/23 12:04	5/31/23 13:40		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	5/31/23 12:04	5/31/23 13:40		1.015	0.000220	mg/L	0.000203	0.001015	J	
* Cobalt, Total	5/31/23 12:04	5/31/23 13:40		1.015	0.0181	mg/L	0.000068	0.000203		
* Lead, Total	5/31/23 12:04	5/31/23 13:40		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	5/31/23 12:04	5/31/23 14:06		10.15	9.75	mg/L	0.001522	0.01015	RA	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-43H

**Location Code:** WMWGREAP  
**Collected:** 5/24/23 13:58  
**Customer ID:**  
**Submittal Date:** 5/25/23 11:16

**Laboratory ID Number:** BD09878

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/31/23 12:04	5/31/23 13:40		1.015	8.86	mg/L	0.169505	0.5075	
* Selenium, Total	5/31/23 12:04	5/31/23 13:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/31/23 12:04	5/31/23 13:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/31/23 09:10	5/31/23 09:39		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/31/23 09:10	5/31/23 09:39		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/31/23 09:10	5/31/23 09:39		1.015	0.0119	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/31/23 09:10	5/31/23 09:39		1.015	0.159	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/23 09:10	5/31/23 09:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/23 09:10	5/31/23 09:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/23 09:10	5/31/23 09:39		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/31/23 09:10	5/31/23 09:39		1.015	0.0178	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/23 09:10	5/31/23 09:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/23 09:10	5/31/23 10:07		10.15	9.67	mg/L	0.001522	0.01015	RA
* Potassium, Dissolved	5/31/23 09:10	5/31/23 09:39		1.015	8.52	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/23 09:10	5/31/23 09:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/23 09:10	5/31/23 09:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/26/23 01:15		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 14:14	5/25/23 14:14		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/5/23 11:10	6/5/23 13:58		1	380	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/30/23 11:08	6/1/23 13:45		1	578	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/5/23 11:10	6/5/23 13:58		1	380	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	6/5/23 11:10	6/5/23 13:58		1	Not Detected	mg CaCO3/L		0.5	A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 19:39	5/25/23 19:39		1	1.90	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-43H

**Location Code:** WMWGREAP

**Collected:** 5/24/23 13:58

**Customer ID:**

**Submittal Date:** 5/25/23 11:16

**Laboratory ID Number:** BD09878

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 09:10	6/8/23 09:10		3	30.5	mg/L	1.50	3	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 13:38	5/25/23 13:38		1	0.126	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 16:32	6/6/23 16:32		8	103	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/24/23 13:55	5/24/23 13:55			871.81	uS/cm			FA
pH	5/24/23 13:55	5/24/23 13:55			6.38	SU			FA
Temperature	5/24/23 13:55	5/24/23 13:55			18.94	C			FA
Turbidity	5/24/23 13:55	5/24/23 13:55			4.48	NTU			FA
Sulfide	5/24/23 13:55	5/24/23 13:55			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/24/23 13:58

**Customer ID:**

**Delivery Date:** 5/25/23 11:16

**Description:** Greene County Ash Pond - MW-43H

**Laboratory ID Number:** BD09878

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09878	Aluminum, Dissolved	mg/L	-0.000298	0.0198	0.100	0.105	0.103	0.102	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD09878	Aluminum, Total	mg/L	0.000866	0.0198	0.100	0.107	0.106	0.109	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09878	Antimony, Dissolved	mg/L	0.000321	0.00100	0.100	0.0900	0.0931	0.0913	0.0850 to 0.115	90.0	70.0 to 130	3.39	20.0
BD09878	Antimony, Total	mg/L	0.000332	0.00100	0.100	0.0993	0.101	0.0923	0.0850 to 0.115	99.3	70.0 to 130	1.70	20.0
BD09878	Arsenic, Dissolved	mg/L	0.0000133	0.000200	0.100	0.115	0.118	0.100	0.0850 to 0.115	103	70.0 to 130	2.58	20.0
BD09878	Arsenic, Total	mg/L	0.0000116	0.000200	0.100	0.114	0.113	0.100	0.0850 to 0.115	103	70.0 to 130	0.881	20.0
BD09878	Barium, Dissolved	mg/L	-0.0000034	0.00100	0.100	0.253	0.255	0.0984	0.0850 to 0.115	94.0	70.0 to 130	0.787	20.0
BD09878	Barium, Total	mg/L	0.0000350	0.00100	0.100	0.256	0.262	0.0987	0.0850 to 0.115	94.0	70.0 to 130	2.32	20.0
BD09878	Beryllium, Dissolved	mg/L	0.0000397	0.000880	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD09878	Beryllium, Total	mg/L	0.0000144	0.000880	0.100	0.0939	0.0974	0.0968	0.0850 to 0.115	93.9	70.0 to 130	3.66	20.0
BD09878	Boron, Dissolved	mg/L	-0.000185	0.0650	1.00	2.23	2.23	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09878	Boron, Total	mg/L	0.000475	0.0650	1.00	2.27	2.26	1.04	0.850 to 1.15	106	70.0 to 130	0.442	20.0
BD09878	Cadmium, Dissolved	mg/L	0.0000053	0.000147	0.100	0.0976	0.102	0.0984	0.0850 to 0.115	97.6	70.0 to 130	4.41	20.0
BD09878	Cadmium, Total	mg/L	0.0000158	0.000147	0.100	0.100	0.100	0.0983	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD09878	Calcium, Dissolved	mg/L	0.00117	0.152	5.00	126	121	5.05	4.25 to 5.75	80.0	70.0 to 130	4.05	20.0
BD09878	Calcium, Total	mg/L	0.00349	0.152	5.00	115	107	4.97	4.25 to 5.75	20.0	70.0 to 130	7.21	20.0
BD10171	Chloride	mg/L	0.000394	1.00	160	259	262	9.94	9.00 to 11.0	96.2	80.0 to 120	1.15	20.0
BD09878	Chromium, Dissolved	mg/L	0.0000120	0.000440	0.100	0.102	0.0999	0.0995	0.0850 to 0.115	102	70.0 to 130	2.08	20.0
BD09878	Chromium, Total	mg/L	0.000177	0.000440	0.100	0.0969	0.0955	0.102	0.0850 to 0.115	96.7	70.0 to 130	1.46	20.0
BD09878	Cobalt, Dissolved	mg/L	-0.0000010	0.000147	0.100	0.122	0.121	0.102	0.0850 to 0.115	104	70.0 to 130	0.823	20.0
BD09878	Cobalt, Total	mg/L	0.0000038	0.000147	0.100	0.116	0.115	0.105	0.0850 to 0.115	97.9	70.0 to 130	0.866	20.0
BD09878	Fluoride	mg/L	0.0359	0.125	2.50	2.77	2.81	2.59	2.25 to 2.75	106	80.0 to 120	1.43	20.0
BD09878	Iron, Dissolved	mg/L	0.00531	0.0176	0.2	12.5	12.1	0.208	0.170 to 0.230	-100	70.0 to 130	3.25	20.0
BD09878	Iron, Total	mg/L	0.0149	0.0176	0.2	11.8	11.3	0.217	0.170 to 0.230	-200	70.0 to 130	4.33	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/24/23 13:58

**Customer ID:**

**Delivery Date:** 5/25/23 11:16

**Description:** Greene County Ash Pond - MW-43H

**Laboratory ID Number:** BD09878

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09878	Lead, Dissolved	mg/L	0.0000153	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD09878	Lead, Total	mg/L	0.0000077	0.000147	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD09878	Lithium, Dissolved	mg/L	-0.000198	0.0154	0.200	0.388	0.383	0.201	0.170 to 0.230	104	70.0 to 130	1.30	20.0
BD09878	Lithium, Total	mg/L	-0.000104	0.0154	0.200	0.396	0.400	0.211	0.170 to 0.230	106	70.0 to 130	1.01	20.0
BD09878	Magnesium, Dissolved	mg/L	0.000166	0.0462	5.00	35.4	35.2	5.02	4.25 to 5.75	92.0	70.0 to 130	0.567	20.0
BD09878	Magnesium, Total	mg/L	0.00972	0.0462	5.00	36.3	36.6	5.11	4.25 to 5.75	100	70.0 to 130	0.823	20.0
BD09878	Manganese, Dissolved	mg/L	-0.0000072	0.00033	0.100	9.92	9.94	0.104	0.0850 to 0.115	250	70.0 to 130	0.201	20.0
BD09878	Manganese, Total	mg/L	0.0000588	0.00033	0.100	10.3	10.2	0.106	0.0850 to 0.115	550	70.0 to 130	0.976	20.0
BD09878	Mercury, Total by CVAA	mg/L	-0.00013	0.000500	0.004	0.00388	0.00388	0.00387	0.00340 to 0.00460	97.0	70.0 to 130	0.00	20.0
BD09878	Molybdenum, Dissolved	mg/L	-0.00208	0.0100	0.2	0.210	0.211	0.209	0.170 to 0.230	105	70.0 to 130	0.475	20.0
BD09878	Molybdenum, Total	mg/L	-0.002	0.0100	0.2	0.212	0.214	0.210	0.170 to 0.230	106	70.0 to 130	0.939	20.0
BD09878	Potassium, Dissolved	mg/L	0.00219	0.367	10.0	19.2	18.9	10.4	8.50 to 11.5	107	70.0 to 130	1.57	20.0
BD09878	Potassium, Total	mg/L	0.0174	0.367	10.0	18.8	18.8	10.7	8.50 to 11.5	99.4	70.0 to 130	0.00	20.0
BD09878	Selenium, Dissolved	mg/L	0.0000340	0.00100	0.100	0.107	0.107	0.103	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD09878	Selenium, Total	mg/L	0.000247	0.00100	0.100	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD09878	Silicon, Dissolved	mg/L	0.000236	0.0440	1.00	5.44	5.47	1.04	0.850 to 1.15	96.0	70.0 to 130	0.550	20.0
BD09878	Silicon, Total	mg/L	0.00132	0.0440	1.00	5.50	5.48	1.05	0.850 to 1.15	104	70.0 to 130	0.364	20.0
BD09878	Sodium, Dissolved	mg/L	-0.000708	0.0880	5.00	60.7	59.3	4.97	4.25 to 5.75	84.0	70.0 to 130	2.33	20.0
BD09878	Sodium, Total	mg/L	0.00577	0.0880	5.00	57.7	54.4	5.16	4.25 to 5.75	86.0	70.0 to 130	5.89	20.0
BD09878	Sulfate	mg/L	-0.0523	2.0	160	263	264	18.9	18.0 to 22.0	100	80.0 to 120	0.380	20.0
BD09878	Thallium, Dissolved	mg/L	0.0000107	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD09878	Thallium, Total	mg/L	0.0000050	0.000147	0.100	0.107	0.102	0.105	0.0850 to 0.115	107	70.0 to 130	4.78	20.0
BD09878	Total Organic Carbon	mg/L	0.0719	1.00	10.0	11.2	12.0	9.75		93.0	80.0 to 120	6.90	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.



## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/24/23 13:58

**Customer ID:**

**Delivery Date:** 5/25/23 11:16

**Description:** Greene County Ash Pond - MW-43H

**Laboratory ID Number:** BD09878

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09722	Alkalinity	mg CaCO3/L					68.2	49.5	45.0 to 55.0			0.147	10.0
BD09878	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	2.27	0.154	2.05	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD09878	Solids, Dissolved	mg/L	1.00	25.0			580	55.0	40.0 to 60.0			0.345	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-4

**Location Code:** WMWGREAPFB  
**Collected:** 5/30/23 12:30  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10166

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 16:00		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/2/23 11:34	6/6/23 16:00		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	6/2/23 11:34	6/6/23 16:00		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/2/23 11:34	6/6/23 16:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/2/23 11:34	6/6/23 16:00		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	6/2/23 11:34	6/6/23 16:00		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 16:00		1	Not Detected	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 16:00		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	6/2/23 11:34	6/6/23 16:00		1.015	Not Detected	mg/L	0.04060	0.406	U
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 14:04		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	6/2/23 11:34	6/2/23 14:04		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	6/2/23 11:34	6/2/23 14:04		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	6/2/23 11:34	6/2/23 14:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	6/2/23 11:34	6/2/23 14:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 14:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/2/23 11:34	6/2/23 14:04		1.015	0.000207	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 14:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	6/2/23 11:34	6/2/23 14:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 14:04		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	6/2/23 11:34	6/2/23 14:04		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	6/2/23 11:34	6/2/23 14:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 14:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>			<b>Analyst: ELH</b>						
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 18:40		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>			<b>Analyst: SC</b>						
* Nitrogen, Nitrate/Nitrite	6/1/23 15:45	6/1/23 15:45		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2540C</b>			<b>Analyst: CNJ</b>						
* Solids, Dissolved	6/2/23 10:08	6/5/23 14:15		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-4

**Location Code:** WMWGREAPFB  
**Collected:** 5/30/23 12:30  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10166

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 13:34	6/7/23 13:34		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 09:01	6/8/23 09:01		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 10:35	6/9/23 10:35		1	0.0620	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 10:25	6/7/23 10:25		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/30/23 12:30

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond Field Blank-4

**Laboratory ID Number:** BD10166

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10175	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10175	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0899	0.0888	0.0921	0.0850 to 0.115	89.9	70.0 to 130	1.23	20.0
BD10175	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10175	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD10175	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.109	0.108	0.105	0.0850 to 0.115	109	70.0 to 130	0.922	20.0
BD10175	Boron, Total	mg/L	0.000112	0.0650	1.00	1.04	0.987	0.998	0.850 to 1.15	104	70.0 to 130	5.23	20.0
BD10175	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.0978	0.0999	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BD10175	Calcium, Total	mg/L	0.000397	0.152	5.00	4.69	4.65	4.81	4.25 to 5.75	93.8	70.0 to 130	0.857	20.0
BD10171	Chloride	mg/L	0.000394	1.00	160	259	262	9.94	9.00 to 11.0	96.2	80.0 to 120	1.15	20.0
BD10175	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD10175	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BD10175	Fluoride	mg/L	0.0373	0.125	2.50	2.54	2.54	2.56	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD10175	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.200	0.203	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD10175	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD10175	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.206	0.205	0.205	0.170 to 0.230	103	70.0 to 130	0.487	20.0
BD10175	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	4.89	4.88	4.98	4.25 to 5.75	97.8	70.0 to 130	0.205	20.0
BD10175	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.102	0.100	0.102	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD10175	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00392	0.00391	0.00389	0.00340 to 0.00460	98.0	70.0 to 130	0.255	20.0
BD10175	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.204	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10175	Potassium, Total	mg/L	0.00141	0.367	10.0	10.5	10.2	10.6	8.50 to 11.5	105	70.0 to 130	2.90	20.0
BD10175	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.102	0.0998	0.101	0.0850 to 0.115	102	70.0 to 130	2.18	20.0
BD10175	Silicon, Total	mg/L	0.000658	0.0440	1.00	1.01	1.00	1.02	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BD10175	Sodium, Total	mg/L	0.00301	0.0880	5.00	4.94	4.91	4.96	4.25 to 5.75	98.8	70.0 to 130	0.609	20.0
BD10175	Sulfate	mg/L	0.576	2.0	20.0	20.8	21.1	20.6	18.0 to 22.0	104	80.0 to 120	1.43	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/30/23 12:30

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond Field Blank-4

**Laboratory ID Number:** BD10166

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Limit			Limit	Limit	Prec			
BD10175	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.106	0.107	0.108	0.0850 to 0.115		106	70.0 to 130		0.939	20.0
BD10174	Total Organic Carbon	mg/L	0.132	1.00	10.0	10.2	10.1	24.2			102	80.0 to 120		0.985	20.0

**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/30/23 12:30

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond Field Blank-4

**Laboratory ID Number:** BD10166

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10175	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.99	-0.040	1.88	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD10171	Solids, Dissolved	mg/L	2.00	25.0			658	55.0	40.0 to 60.0			1.84	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-53H

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 13:46  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10167

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 16:03		1.015	0.435	mg/L	0.030000	0.1015	
* Calcium, Total	6/2/23 11:34	6/8/23 13:19		101.5	78.7	mg/L	7.0035	40.6	
* Iron, Total	6/2/23 11:34	6/8/23 13:19		101.5	73.0	mg/L	0.8120	4.06	
* Lithium, Total	6/2/23 11:34	6/6/23 16:03		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/2/23 11:34	6/6/23 16:03		1.015	11.0	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 16:03		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 16:03		1	14.7	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 16:03		1.015	6.89	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/6/23 16:03		1.015	20.2	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	6/1/23 12:45	6/6/23 13:09		1.015	0.436	mg/L	0.030000	0.1015	
* Calcium, Dissolved	6/1/23 12:45	6/6/23 15:06		101.5	76.4	mg/L	7.0035	40.6	
* Iron, Dissolved	6/1/23 12:45	6/6/23 15:06		101.5	71.9	mg/L	0.8120	4.06	
* Lithium, Dissolved	6/1/23 12:45	6/6/23 13:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 13:09		1.015	11.2	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 13:09		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 13:09		1	14.6	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 13:09		1.015	6.84	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 13:09		1.015	20.4	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 14:08		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	6/2/23 11:34	6/2/23 14:08		1.015	0.195	mg/L	0.009135	0.05075	
* Arsenic, Total	6/2/23 11:34	6/2/23 14:08		1.015	0.242	mg/L	0.000112	0.000203	
* Barium, Total	6/2/23 11:34	6/2/23 14:08		1.015	0.391	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 14:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 14:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/2/23 11:34	6/2/23 14:08		1.015	0.000512	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 14:08		1.015	0.00406	mg/L	0.000068	0.000203	
* Lead, Total	6/2/23 11:34	6/2/23 14:08		1.015	0.000141	mg/L	0.000068	0.000203	J
* Manganese, Total	6/2/23 11:34	6/2/23 16:41		5.075	3.08	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-53H

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 13:46  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10167

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 14:08		1.015	4.47	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 14:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 14:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 13:12		1.015	0.00231	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 13:12		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 13:12		1.015	0.252	mg/L	0.000112	0.000203	
* Barium, Dissolved	6/1/23 12:45	6/1/23 13:12		1.015	0.375	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 13:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 13:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	6/1/23 12:45	6/1/23 13:12		1.015	0.000335	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 13:12		1.015	0.00355	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 13:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/2/23 09:37		5.075	3.03	mg/L	0.000761	0.005075	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 13:12		1.015	4.46	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 13:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 13:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 18:43		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 15:47	6/1/23 15:47		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/9/23 09:47	6/9/23 11:51		1	262	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:08	6/5/23 14:15		1	427	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/9/23 09:47	6/9/23 11:51		1	262	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/9/23 09:47	6/9/23 11:51		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 13:48	6/7/23 13:48		1	5.10	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-53H

**Location Code:** WMWGREAP

**Collected:** 5/30/23 13:46

**Customer ID:**

**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10167

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 09:02	6/8/23 09:02		1	12.7	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 10:36	6/9/23 10:36		1	0.167	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 10:40	6/7/23 10:40		3	74.2	mg/L	1.8	6	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	5/30/23 13:44	5/30/23 13:44			721.16	uS/cm			FA
pH	5/30/23 13:44	5/30/23 13:44			6.66	SU			FA
Temperature	5/30/23 13:44	5/30/23 13:44			21.00	C			FA
Turbidity	5/30/23 13:44	5/30/23 13:44			9.69	NTU			FA
Sulfide	5/30/23 13:44	5/30/23 13:44			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 5/30/23 13:46  
**Customer ID:**  
**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-53H

**Laboratory ID Number:** BD10167

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BD10177	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD10175	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10177	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0936	0.0953	0.0907	0.0850 to 0.115	92.5	70.0 to 130	1.80	20.0
BD10175	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0899	0.0888	0.0921	0.0850 to 0.115	89.9	70.0 to 130	1.23	20.0
BD10177	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0995	0.103	0.103	0.0850 to 0.115	99.2	70.0 to 130	3.46	20.0
BD10175	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10177	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.126	0.128	0.104	0.0850 to 0.115	103	70.0 to 130	1.57	20.0
BD10175	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD10177	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.102	0.102	0.104	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD10175	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.109	0.108	0.105	0.0850 to 0.115	109	70.0 to 130	0.922	20.0
BD10177	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.07	1.08	0.999	0.850 to 1.15	100	70.0 to 130	0.930	20.0
BD10175	Boron, Total	mg/L	0.000112	0.0650	1.00	1.04	0.987	0.998	0.850 to 1.15	104	70.0 to 130	5.23	20.0
BD10177	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0988	0.0996	0.0992	0.0850 to 0.115	98.7	70.0 to 130	0.806	20.0
BD10175	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.0978	0.0999	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BD10177	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	14.7	14.5	4.78	4.25 to 5.75	96.8	70.0 to 130	1.37	20.0
BD10175	Calcium, Total	mg/L	0.000397	0.152	5.00	4.69	4.65	4.81	4.25 to 5.75	93.8	70.0 to 130	0.857	20.0
BD10171	Chloride	mg/L	0.000394	1.00	160	259	262	9.94	9.00 to 11.0	96.2	80.0 to 120	1.15	20.0
BD10177	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0982	0.101	0.0995	0.0850 to 0.115	98.2	70.0 to 130	2.81	20.0
BD10175	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD10177	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0962	0.100	0.0970	0.0850 to 0.115	96.0	70.0 to 130	3.87	20.0
BD10175	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BD10175	Fluoride	mg/L	0.0373	0.125	2.50	2.54	2.54	2.56	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD10177	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.204	0.203	0.201	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD10175	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.200	0.203	0.170 to 0.230	100	70.0 to 130	0.499	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 13:46

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-53H

**Laboratory ID Number:** BD10167

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10177	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD10175	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD10177	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.259	0.255	0.205	0.170 to 0.230	104	70.0 to 130	1.56	20.0
BD10175	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.206	0.205	0.205	0.170 to 0.230	103	70.0 to 130	0.487	20.0
BD10177	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	7.64	7.53	5.02	4.25 to 5.75	101	70.0 to 130	1.45	20.0
BD10175	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	4.89	4.88	4.98	4.25 to 5.75	97.8	70.0 to 130	0.205	20.0
BD10177	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.207	0.215	0.106	0.0850 to 0.115	105	70.0 to 130	3.79	20.0
BD10175	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.102	0.100	0.102	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD10175	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00392	0.00391	0.00389	0.00340 to 0.00460	98.0	70.0 to 130	0.255	20.0
BD10177	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD10175	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.204	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10177	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	12.0	12.6	10.2	8.50 to 11.5	98.5	70.0 to 130	4.88	20.0
BD10175	Potassium, Total	mg/L	0.00141	0.367	10.0	10.5	10.2	10.6	8.50 to 11.5	105	70.0 to 130	2.90	20.0
BD10177	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.103	0.105	0.104	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD10175	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.102	0.0998	0.101	0.0850 to 0.115	102	70.0 to 130	2.18	20.0
BD10177	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	4.77	4.76	1.02	0.850 to 1.15	107	70.0 to 130	0.210	20.0
BD10175	Silicon, Total	mg/L	0.000658	0.0440	1.00	1.01	1.00	1.02	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BD10177	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	9.05	8.92	5.01	4.25 to 5.75	99.6	70.0 to 130	1.45	20.0
BD10175	Sodium, Total	mg/L	0.00301	0.0880	5.00	4.94	4.91	4.96	4.25 to 5.75	98.8	70.0 to 130	0.609	20.0
BD10175	Sulfate	mg/L	0.576	2.0	20.0	20.8	21.1	20.6	18.0 to 22.0	104	80.0 to 120	1.43	20.0
BD10177	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD10175	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.106	0.107	0.108	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD10174	Total Organic Carbon	mg/L	0.132	1.00	10.0	10.2	10.1	24.2		102	80.0 to 120	0.985	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 13:46

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-53H

**Laboratory ID Number:** BD10167

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10173	Alkalinity	mg CaCO3/L					158	50.0	45.0 to 55.0			0.635	10.0
BD10175	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.99	-0.040	1.88	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD10171	Solids, Dissolved	mg/L	2.00	25.0			658	55.0	40.0 to 60.0			1.84	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-6

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 14:33  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10168

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>			
* Boron, Total	6/2/23 11:34	6/6/23 16:06		1.015	1.09	mg/L	0.030000	0.1015	
* Calcium, Total	6/2/23 11:34	6/8/23 13:22		10.15	138	mg/L	0.70035	4.06	
* Iron, Total	6/2/23 11:34	6/6/23 16:06		1.015	0.452	mg/L	0.008120	0.0406	
* Lithium, Total	6/2/23 11:34	6/6/23 16:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/2/23 11:34	6/6/23 16:06		1.015	22.5	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 16:06		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 16:06		1	22.3	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 16:06		1.015	10.4	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/8/23 13:22		10.15	147	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>						
* Boron, Dissolved	6/1/23 12:45	6/6/23 13:12		1.015	1.08	mg/L	0.030000	0.1015	
* Calcium, Dissolved	6/1/23 12:45	6/6/23 15:09		10.15	136	mg/L	0.70035	4.06	
* Iron, Dissolved	6/1/23 12:45	6/6/23 13:12		1.015	0.506	mg/L	0.008120	0.0406	
* Lithium, Dissolved	6/1/23 12:45	6/6/23 13:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 13:12		1.015	22.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 13:12		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 13:12		1	22.3	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 13:12		1.015	10.4	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 15:09		10.15	152	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>			
* Antimony, Total	6/2/23 11:34	6/2/23 14:11		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	6/2/23 11:34	6/2/23 14:11		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	6/2/23 11:34	6/2/23 14:11		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	6/2/23 11:34	6/2/23 14:11		1.015	0.0665	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 14:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 14:11		1.015	0.0000805	mg/L	0.000068	0.000203	J
* Chromium, Total	6/2/23 11:34	6/2/23 14:11		1.015	0.000234	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 14:11		1.015	0.00194	mg/L	0.000068	0.000203	
* Lead, Total	6/2/23 11:34	6/2/23 14:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 14:11		1.015	0.467	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-6

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 14:33  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10168

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 14:11		1.015	0.606	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 14:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 14:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 13:16		1.015	0.00181	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 13:16		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 13:16		1.015	0.000465	mg/L	0.000112	0.000203	
* Barium, Dissolved	6/1/23 12:45	6/1/23 13:16		1.015	0.0638	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 13:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 13:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	6/1/23 12:45	6/1/23 13:16		1.015	0.000216	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 13:16		1.015	0.00196	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 13:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/1/23 13:16		1.015	0.481	mg/L	0.000152	0.001015	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 13:16		1.015	0.623	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 13:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 13:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 18:47		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 15:48	6/1/23 15:48		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/9/23 09:47	6/9/23 11:51		1	400	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:08	6/5/23 14:15		1	818	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/9/23 09:47	6/9/23 11:51		1	400	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	6/9/23 09:47	6/9/23 11:51		1	Not Detected	mg CaCO3/L		0.5	A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 14:05	6/7/23 14:05		1	1.10	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-6

**Location Code:** WMWGREAP

**Collected:** 5/30/23 14:33

**Customer ID:**

**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10168

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 09:11	6/8/23 09:11		4	39.4	mg/L	2.00	4	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 10:37	6/9/23 10:37		1	0.193	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 10:41	6/7/23 10:41		10	210	mg/L	6.0	20	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	5/30/23 14:29	5/30/23 14:29			1144.28	uS/cm			FA
pH	5/30/23 14:29	5/30/23 14:29			6.50	SU			FA
Temperature	5/30/23 14:29	5/30/23 14:29			20.43	C			FA
Turbidity	5/30/23 14:29	5/30/23 14:29			0.16	NTU			FA
Sulfide	5/30/23 14:29	5/30/23 14:29			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 14:33

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-6

**Laboratory ID Number:** BD10168

Sample	Analysis	Units	MB				Standard			Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10177	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD10175	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10177	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0936	0.0953	0.0907	0.0850 to 0.115	92.5	70.0 to 130	1.80	20.0
BD10175	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0899	0.0888	0.0921	0.0850 to 0.115	89.9	70.0 to 130	1.23	20.0
BD10177	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0995	0.103	0.103	0.0850 to 0.115	99.2	70.0 to 130	3.46	20.0
BD10175	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10177	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.126	0.128	0.104	0.0850 to 0.115	103	70.0 to 130	1.57	20.0
BD10175	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD10177	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.102	0.102	0.104	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD10175	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.109	0.108	0.105	0.0850 to 0.115	109	70.0 to 130	0.922	20.0
BD10177	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.07	1.08	0.999	0.850 to 1.15	100	70.0 to 130	0.930	20.0
BD10175	Boron, Total	mg/L	0.000112	0.0650	1.00	1.04	0.987	0.998	0.850 to 1.15	104	70.0 to 130	5.23	20.0
BD10177	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0988	0.0996	0.0992	0.0850 to 0.115	98.7	70.0 to 130	0.806	20.0
BD10175	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.0978	0.0999	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BD10177	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	14.7	14.5	4.78	4.25 to 5.75	96.8	70.0 to 130	1.37	20.0
BD10175	Calcium, Total	mg/L	0.000397	0.152	5.00	4.69	4.65	4.81	4.25 to 5.75	93.8	70.0 to 130	0.857	20.0
BD10171	Chloride	mg/L	0.000394	1.00	160	259	262	9.94	9.00 to 11.0	96.2	80.0 to 120	1.15	20.0
BD10177	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0982	0.101	0.0995	0.0850 to 0.115	98.2	70.0 to 130	2.81	20.0
BD10175	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD10177	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0962	0.100	0.0970	0.0850 to 0.115	96.0	70.0 to 130	3.87	20.0
BD10175	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BD10175	Fluoride	mg/L	0.0373	0.125	2.50	2.54	2.54	2.56	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD10177	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.204	0.203	0.201	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD10175	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.200	0.203	0.170 to 0.230	100	70.0 to 130	0.499	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 14:33

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-6

**Laboratory ID Number:** BD10168

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10177	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD10175	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD10177	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.259	0.255	0.205	0.170 to 0.230	104	70.0 to 130	1.56	20.0
BD10175	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.206	0.205	0.205	0.170 to 0.230	103	70.0 to 130	0.487	20.0
BD10177	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	7.64	7.53	5.02	4.25 to 5.75	101	70.0 to 130	1.45	20.0
BD10175	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	4.89	4.88	4.98	4.25 to 5.75	97.8	70.0 to 130	0.205	20.0
BD10177	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.207	0.215	0.106	0.0850 to 0.115	105	70.0 to 130	3.79	20.0
BD10175	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.102	0.100	0.102	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD10175	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00392	0.00391	0.00389	0.00340 to 0.00460	98.0	70.0 to 130	0.255	20.0
BD10177	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD10175	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.204	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10177	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	12.0	12.6	10.2	8.50 to 11.5	98.5	70.0 to 130	4.88	20.0
BD10175	Potassium, Total	mg/L	0.00141	0.367	10.0	10.5	10.2	10.6	8.50 to 11.5	105	70.0 to 130	2.90	20.0
BD10177	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.103	0.105	0.104	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD10175	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.102	0.0998	0.101	0.0850 to 0.115	102	70.0 to 130	2.18	20.0
BD10177	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	4.77	4.76	1.02	0.850 to 1.15	107	70.0 to 130	0.210	20.0
BD10175	Silicon, Total	mg/L	0.000658	0.0440	1.00	1.01	1.00	1.02	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BD10177	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	9.05	8.92	5.01	4.25 to 5.75	99.6	70.0 to 130	1.45	20.0
BD10175	Sodium, Total	mg/L	0.00301	0.0880	5.00	4.94	4.91	4.96	4.25 to 5.75	98.8	70.0 to 130	0.609	20.0
BD10175	Sulfate	mg/L	0.576	2.0	20.0	20.8	21.1	20.6	18.0 to 22.0	104	80.0 to 120	1.43	20.0
BD10177	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD10175	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.106	0.107	0.108	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD10174	Total Organic Carbon	mg/L	0.132	1.00	10.0	10.2	10.1	24.2		102	80.0 to 120	0.985	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 14:33

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-6

**Laboratory ID Number:** BD10168

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10173	Alkalinity	mg CaCO3/L					158	50.0	45.0 to 55.0			0.635	10.0
BD10175	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.99	-0.040	1.88	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD10171	Solids, Dissolved	mg/L	2.00	25.0			658	55.0	40.0 to 60.0			1.84	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-7

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 15:12  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10169

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>			
* Boron, Total	6/2/23 11:34	6/6/23 16:10		1.015	0.0498	mg/L	0.030000	0.1015	J
* Calcium, Total	6/2/23 11:34	6/8/23 13:25		10.15	140	mg/L	0.70035	4.06	
* Iron, Total	6/2/23 11:34	6/6/23 16:10		1.015	0.130	mg/L	0.008120	0.0406	
* Lithium, Total	6/2/23 11:34	6/6/23 16:10		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/2/23 11:34	6/6/23 16:10		1.015	15.3	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 16:10		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 16:10		1	19.8	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 16:10		1.015	9.27	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/8/23 13:25		10.15	237	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>						
* Boron, Dissolved	6/1/23 12:45	6/6/23 13:15		1.015	0.0520	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	6/1/23 12:45	6/6/23 15:13		10.15	153	mg/L	0.70035	4.06	
* Iron, Dissolved	6/1/23 12:45	6/6/23 13:15		1.015	0.142	mg/L	0.008120	0.0406	
* Lithium, Dissolved	6/1/23 12:45	6/6/23 13:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 13:15		1.015	15.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 13:15		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 13:15		1	20.0	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 13:15		1.015	9.35	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 15:13		10.15	261	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>			
* Antimony, Total	6/2/23 11:34	6/2/23 14:15		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	6/2/23 11:34	6/2/23 14:15		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	6/2/23 11:34	6/2/23 14:15		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	6/2/23 11:34	6/2/23 14:15		1.015	0.0795	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 14:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 14:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/2/23 11:34	6/2/23 14:15		1.015	0.000284	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 14:15		1.015	0.00279	mg/L	0.000068	0.000203	
* Lead, Total	6/2/23 11:34	6/2/23 14:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 14:15		1.015	0.944	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-7

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 15:12  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10169

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 14:15		1.015	1.25	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 14:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 14:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 13:19		1.015	0.00153	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 13:19		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 13:19		1.015	0.000342	mg/L	0.000112	0.000203	
* Barium, Dissolved	6/1/23 12:45	6/1/23 13:19		1.015	0.0797	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 13:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 13:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	6/1/23 12:45	6/1/23 13:19		1.015	0.000207	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 13:19		1.015	0.00273	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 13:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/1/23 13:19		1.015	0.930	mg/L	0.000152	0.001015	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 13:19		1.015	1.23	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 13:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 13:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 18:51		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 15:50	6/1/23 15:50		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/12/23 11:01	6/12/23 13:52		1	291	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:08	6/5/23 14:15		1	1000	mg/L		75.8	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	291	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	Not Detected	mg CaCO3/L		0.5	A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 14:23	6/7/23 14:23		1	1.10	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-7

**Location Code:** WMWGREAP

**Collected:** 5/30/23 15:12

**Customer ID:**

**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10169

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 09:13	6/8/23 09:13		16	208	mg/L	8.00	16	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 10:39	6/9/23 10:39		1	0.111	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 10:42	6/7/23 10:42		16	236	mg/L	9.6	32	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	5/30/23 15:08	5/30/23 15:08			1482.66	uS/cm			FA
pH	5/30/23 15:08	5/30/23 15:08			6.42	SU			FA
Temperature	5/30/23 15:08	5/30/23 15:08			19.27	C			FA
Turbidity	5/30/23 15:08	5/30/23 15:08			1.52	NTU			FA
Sulfide	5/30/23 15:08	5/30/23 15:08			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 15:12

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-7

**Laboratory ID Number:** BD10169

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10177	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD10175	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10177	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0936	0.0953	0.0907	0.0850 to 0.115	92.5	70.0 to 130	1.80	20.0
BD10175	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0899	0.0888	0.0921	0.0850 to 0.115	89.9	70.0 to 130	1.23	20.0
BD10177	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0995	0.103	0.103	0.0850 to 0.115	99.2	70.0 to 130	3.46	20.0
BD10175	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10177	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.126	0.128	0.104	0.0850 to 0.115	103	70.0 to 130	1.57	20.0
BD10175	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD10177	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.102	0.102	0.104	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD10175	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.109	0.108	0.105	0.0850 to 0.115	109	70.0 to 130	0.922	20.0
BD10177	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.07	1.08	0.999	0.850 to 1.15	100	70.0 to 130	0.930	20.0
BD10175	Boron, Total	mg/L	0.000112	0.0650	1.00	1.04	0.987	0.998	0.850 to 1.15	104	70.0 to 130	5.23	20.0
BD10177	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0988	0.0996	0.0992	0.0850 to 0.115	98.7	70.0 to 130	0.806	20.0
BD10175	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.0978	0.0999	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BD10177	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	14.7	14.5	4.78	4.25 to 5.75	96.8	70.0 to 130	1.37	20.0
BD10175	Calcium, Total	mg/L	0.000397	0.152	5.00	4.69	4.65	4.81	4.25 to 5.75	93.8	70.0 to 130	0.857	20.0
BD10171	Chloride	mg/L	0.000394	1.00	160	259	262	9.94	9.00 to 11.0	96.2	80.0 to 120	1.15	20.0
BD10177	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0982	0.101	0.0995	0.0850 to 0.115	98.2	70.0 to 130	2.81	20.0
BD10175	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD10177	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0962	0.100	0.0970	0.0850 to 0.115	96.0	70.0 to 130	3.87	20.0
BD10175	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BD10175	Fluoride	mg/L	0.0373	0.125	2.50	2.54	2.54	2.56	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD10177	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.204	0.203	0.201	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD10175	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.200	0.203	0.170 to 0.230	100	70.0 to 130	0.499	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 15:12

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-7

**Laboratory ID Number:** BD10169

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10177	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD10175	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD10177	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.259	0.255	0.205	0.170 to 0.230	104	70.0 to 130	1.56	20.0
BD10175	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.206	0.205	0.205	0.170 to 0.230	103	70.0 to 130	0.487	20.0
BD10177	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	7.64	7.53	5.02	4.25 to 5.75	101	70.0 to 130	1.45	20.0
BD10175	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	4.89	4.88	4.98	4.25 to 5.75	97.8	70.0 to 130	0.205	20.0
BD10177	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.207	0.215	0.106	0.0850 to 0.115	105	70.0 to 130	3.79	20.0
BD10175	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.102	0.100	0.102	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD10175	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00392	0.00391	0.00389	0.00340 to 0.00460	98.0	70.0 to 130	0.255	20.0
BD10177	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD10175	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.204	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10177	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	12.0	12.6	10.2	8.50 to 11.5	98.5	70.0 to 130	4.88	20.0
BD10175	Potassium, Total	mg/L	0.00141	0.367	10.0	10.5	10.2	10.6	8.50 to 11.5	105	70.0 to 130	2.90	20.0
BD10177	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.103	0.105	0.104	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD10175	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.102	0.0998	0.101	0.0850 to 0.115	102	70.0 to 130	2.18	20.0
BD10177	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	4.77	4.76	1.02	0.850 to 1.15	107	70.0 to 130	0.210	20.0
BD10175	Silicon, Total	mg/L	0.000658	0.0440	1.00	1.01	1.00	1.02	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BD10177	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	9.05	8.92	5.01	4.25 to 5.75	99.6	70.0 to 130	1.45	20.0
BD10175	Sodium, Total	mg/L	0.00301	0.0880	5.00	4.94	4.91	4.96	4.25 to 5.75	98.8	70.0 to 130	0.609	20.0
BD10175	Sulfate	mg/L	0.576	2.0	20.0	20.8	21.1	20.6	18.0 to 22.0	104	80.0 to 120	1.43	20.0
BD10177	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD10175	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.106	0.107	0.108	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD10174	Total Organic Carbon	mg/L	0.132	1.00	10.0	10.2	10.1	24.2		102	80.0 to 120	0.985	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 15:12

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-7

**Laboratory ID Number:** BD10169

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10179	Alkalinity	mg CaCO3/L					119	51.0	45.0 to 55.0			1.67	10.0
BD10175	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.99	-0.040	1.88	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD10171	Solids, Dissolved	mg/L	2.00	25.0			658	55.0	40.0 to 60.0			1.84	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-8

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 15:48  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10170

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 16:13		1.015	0.794	mg/L	0.030000	0.1015	
* Calcium, Total	6/2/23 11:34	6/8/23 13:28		10.15	87.0	mg/L	0.70035	4.06	
* Iron, Total	6/2/23 11:34	6/6/23 16:13		1.015	0.0377	mg/L	0.008120	0.0406	J
* Lithium, Total	6/2/23 11:34	6/6/23 16:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/2/23 11:34	6/6/23 16:13		1.015	14.9	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 16:13		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 16:13		1	14.5	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 16:13		1.015	6.76	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/8/23 13:28		10.15	200	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	6/1/23 12:45	6/6/23 13:19		1.015	0.797	mg/L	0.030000	0.1015	
* Calcium, Dissolved	6/1/23 12:45	6/6/23 15:16		10.15	95.1	mg/L	0.70035	4.06	
* Iron, Dissolved	6/1/23 12:45	6/6/23 13:19		1.015	0.0357	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	6/1/23 12:45	6/6/23 13:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 13:19		1.015	15.0	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 13:19		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 13:19		1	14.5	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 13:19		1.015	6.79	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 15:16		10.15	216	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 14:19		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	6/2/23 11:34	6/2/23 14:19		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	6/2/23 11:34	6/2/23 14:19		1.015	0.000274	mg/L	0.000112	0.000203	
* Barium, Total	6/2/23 11:34	6/2/23 14:19		1.015	0.136	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 14:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 14:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/2/23 11:34	6/2/23 14:19		1.015	0.000233	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 14:19		1.015	0.00504	mg/L	0.000068	0.000203	
* Lead, Total	6/2/23 11:34	6/2/23 14:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 14:19		1.015	1.07	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-8

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 15:48  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10170

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 14:19		1.015	0.596	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 14:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 14:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 13:23		1.015	0.00139	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 13:23		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 13:23		1.015	0.000514	mg/L	0.000112	0.000203	
* Barium, Dissolved	6/1/23 12:45	6/1/23 13:23		1.015	0.135	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 13:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 13:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	6/1/23 12:45	6/1/23 13:23		1.015	0.000267	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 13:23		1.015	0.00492	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 13:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/1/23 13:23		1.015	1.07	mg/L	0.000152	0.001015	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 13:23		1.015	0.594	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 13:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 13:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 18:55		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 15:52	6/1/23 15:52		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/12/23 11:01	6/12/23 13:52		1	418	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:08	6/5/23 14:15		1	676	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	418	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	Not Detected	mg CaCO3/L		0.5	A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 14:40	6/7/23 14:40		1	1.28	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-8

**Location Code:** WMWGREAP

**Collected:** 5/30/23 15:48

**Customer ID:**

**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10170

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 09:25	6/8/23 09:25		10	76.6	mg/L	5.00	10	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 10:40	6/9/23 10:40		1	0.179	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 10:43	6/7/23 10:43		3	69.5	mg/L	1.8	6	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	5/30/23 15:46	5/30/23 15:46			1065.39	uS/cm			FA
pH	5/30/23 15:46	5/30/23 15:46			6.62	SU			FA
Temperature	5/30/23 15:46	5/30/23 15:46			19.56	C			FA
Turbidity	5/30/23 15:46	5/30/23 15:46			0.16	NTU			FA
Sulfide	5/30/23 15:46	5/30/23 15:46			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 15:48

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-8

**Laboratory ID Number:** BD10170

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10177	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD10175	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10177	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0936	0.0953	0.0907	0.0850 to 0.115	92.5	70.0 to 130	1.80	20.0
BD10175	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0899	0.0888	0.0921	0.0850 to 0.115	89.9	70.0 to 130	1.23	20.0
BD10177	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0995	0.103	0.103	0.0850 to 0.115	99.2	70.0 to 130	3.46	20.0
BD10175	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10177	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.126	0.128	0.104	0.0850 to 0.115	103	70.0 to 130	1.57	20.0
BD10175	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD10177	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.102	0.102	0.104	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD10175	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.109	0.108	0.105	0.0850 to 0.115	109	70.0 to 130	0.922	20.0
BD10177	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.07	1.08	0.999	0.850 to 1.15	100	70.0 to 130	0.930	20.0
BD10175	Boron, Total	mg/L	0.000112	0.0650	1.00	1.04	0.987	0.998	0.850 to 1.15	104	70.0 to 130	5.23	20.0
BD10177	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0988	0.0996	0.0992	0.0850 to 0.115	98.7	70.0 to 130	0.806	20.0
BD10175	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.0978	0.0999	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BD10177	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	14.7	14.5	4.78	4.25 to 5.75	96.8	70.0 to 130	1.37	20.0
BD10175	Calcium, Total	mg/L	0.000397	0.152	5.00	4.69	4.65	4.81	4.25 to 5.75	93.8	70.0 to 130	0.857	20.0
BD10171	Chloride	mg/L	0.000394	1.00	160	259	262	9.94	9.00 to 11.0	96.2	80.0 to 120	1.15	20.0
BD10177	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0982	0.101	0.0995	0.0850 to 0.115	98.2	70.0 to 130	2.81	20.0
BD10175	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD10177	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0962	0.100	0.0970	0.0850 to 0.115	96.0	70.0 to 130	3.87	20.0
BD10175	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BD10175	Fluoride	mg/L	0.0373	0.125	2.50	2.54	2.54	2.56	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD10177	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.204	0.203	0.201	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD10175	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.200	0.203	0.170 to 0.230	100	70.0 to 130	0.499	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 15:48

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-8

**Laboratory ID Number:** BD10170

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10177	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD10175	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD10177	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.259	0.255	0.205	0.170 to 0.230	104	70.0 to 130	1.56	20.0
BD10175	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.206	0.205	0.205	0.170 to 0.230	103	70.0 to 130	0.487	20.0
BD10177	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	7.64	7.53	5.02	4.25 to 5.75	101	70.0 to 130	1.45	20.0
BD10175	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	4.89	4.88	4.98	4.25 to 5.75	97.8	70.0 to 130	0.205	20.0
BD10177	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.207	0.215	0.106	0.0850 to 0.115	105	70.0 to 130	3.79	20.0
BD10175	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.102	0.100	0.102	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD10175	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00392	0.00391	0.00389	0.00340 to 0.00460	98.0	70.0 to 130	0.255	20.0
BD10177	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD10175	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.204	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10177	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	12.0	12.6	10.2	8.50 to 11.5	98.5	70.0 to 130	4.88	20.0
BD10175	Potassium, Total	mg/L	0.00141	0.367	10.0	10.5	10.2	10.6	8.50 to 11.5	105	70.0 to 130	2.90	20.0
BD10177	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.103	0.105	0.104	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD10175	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.102	0.0998	0.101	0.0850 to 0.115	102	70.0 to 130	2.18	20.0
BD10177	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	4.77	4.76	1.02	0.850 to 1.15	107	70.0 to 130	0.210	20.0
BD10175	Silicon, Total	mg/L	0.000658	0.0440	1.00	1.01	1.00	1.02	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BD10177	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	9.05	8.92	5.01	4.25 to 5.75	99.6	70.0 to 130	1.45	20.0
BD10175	Sodium, Total	mg/L	0.00301	0.0880	5.00	4.94	4.91	4.96	4.25 to 5.75	98.8	70.0 to 130	0.609	20.0
BD10175	Sulfate	mg/L	0.576	2.0	20.0	20.8	21.1	20.6	18.0 to 22.0	104	80.0 to 120	1.43	20.0
BD10177	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD10175	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.106	0.107	0.108	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD10174	Total Organic Carbon	mg/L	0.132	1.00	10.0	10.2	10.1	24.2		102	80.0 to 120	0.985	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 15:48

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-8

**Laboratory ID Number:** BD10170

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10179	Alkalinity	mg CaCO3/L					119	51.0	45.0 to 55.0			1.67	10.0
BD10175	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.99	-0.040	1.88	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD10171	Solids, Dissolved	mg/L	2.00	25.0			658	55.0	40.0 to 60.0			1.84	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-9

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 16:26  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10171

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>			
* Boron, Total	6/2/23 11:34	6/6/23 16:16		1.015	1.05	mg/L	0.030000	0.1015	
* Calcium, Total	6/2/23 11:34	6/8/23 13:32		10.15	91.1	mg/L	0.70035	4.06	
* Iron, Total	6/2/23 11:34	6/8/23 13:32		10.15	11.4	mg/L	0.08120	0.406	
* Lithium, Total	6/2/23 11:34	6/6/23 16:16		1.015	0.0188	mg/L	0.007105	0.01999956	J
* Magnesium, Total	6/2/23 11:34	6/6/23 16:16		1.015	22.8	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 16:16		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 16:16		1	10.3	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 16:16		1.015	4.80	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/8/23 13:32		10.15	122	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>						
* Boron, Dissolved	6/1/23 12:45	6/6/23 13:22		1.015	1.05	mg/L	0.030000	0.1015	
* Calcium, Dissolved	6/1/23 12:45	6/6/23 15:19		10.15	95.2	mg/L	0.70035	4.06	
* Iron, Dissolved	6/1/23 12:45	6/6/23 15:19		10.15	12.7	mg/L	0.08120	0.406	
* Lithium, Dissolved	6/1/23 12:45	6/6/23 13:22		1.015	0.0194	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 13:22		1.015	22.5	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 13:22		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 13:22		1	10.3	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 13:22		1.015	4.82	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 15:19		10.15	136	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>			
* Antimony, Total	6/2/23 11:34	6/2/23 14:22		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	6/2/23 11:34	6/2/23 14:22		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	6/2/23 11:34	6/2/23 14:22		1.015	0.0107	mg/L	0.000112	0.000203	
* Barium, Total	6/2/23 11:34	6/2/23 14:22		1.015	0.150	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 14:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 14:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/2/23 11:34	6/2/23 14:22		1.015	0.000368	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 14:22		1.015	0.0258	mg/L	0.000068	0.000203	
* Lead, Total	6/2/23 11:34	6/2/23 14:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 16:45		10.15	7.96	mg/L	0.001522	0.01015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-9

**Location Code:** WMWGREAP

**Collected:** 5/30/23 16:26

**Customer ID:**

**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10171

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 14:22		1.015	5.97	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 14:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 14:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 13:26		1.015	0.00155	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 13:26		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 13:26		1.015	0.0115	mg/L	0.000112	0.000203	
* Barium, Dissolved	6/1/23 12:45	6/1/23 13:26		1.015	0.144	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 13:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 13:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	6/1/23 12:45	6/1/23 13:26		1.015	0.000219	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 13:26		1.015	0.0257	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 13:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/2/23 09:41		10.15	8.48	mg/L	0.001522	0.01015	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 13:26		1.015	5.92	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 13:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 13:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 18:59		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 15:54	6/1/23 15:54		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/12/23 11:01	6/12/23 13:52		1	262	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:08	6/5/23 14:15		1	646	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	262	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	Not Detected	mg CaCO3/L		0.5	A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 14:58	6/7/23 14:58		1	1.77	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-9

**Location Code:** WMWGREAP

**Collected:** 5/30/23 16:26

**Customer ID:**

**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10171

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 09:27	6/8/23 09:27		16	105	mg/L	8.00	16	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 10:41	6/9/23 10:41		1	0.127	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 10:45	6/7/23 10:45		6	135	mg/L	3.6	12	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	5/30/23 16:24	5/30/23 16:24			1013.88	uS/cm			FA
pH	5/30/23 16:24	5/30/23 16:24			6.38	SU			FA
Temperature	5/30/23 16:24	5/30/23 16:24			19.75	C			FA
Turbidity	5/30/23 16:24	5/30/23 16:24			0.12	NTU			FA
Sulfide	5/30/23 16:24	5/30/23 16:24			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 16:26

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-9

**Laboratory ID Number:** BD10171

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10177	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD10175	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10177	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0936	0.0953	0.0907	0.0850 to 0.115	92.5	70.0 to 130	1.80	20.0
BD10175	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0899	0.0888	0.0921	0.0850 to 0.115	89.9	70.0 to 130	1.23	20.0
BD10177	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0995	0.103	0.103	0.0850 to 0.115	99.2	70.0 to 130	3.46	20.0
BD10175	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10177	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.126	0.128	0.104	0.0850 to 0.115	103	70.0 to 130	1.57	20.0
BD10175	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD10177	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.102	0.102	0.104	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD10175	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.109	0.108	0.105	0.0850 to 0.115	109	70.0 to 130	0.922	20.0
BD10177	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.07	1.08	0.999	0.850 to 1.15	100	70.0 to 130	0.930	20.0
BD10175	Boron, Total	mg/L	0.000112	0.0650	1.00	1.04	0.987	0.998	0.850 to 1.15	104	70.0 to 130	5.23	20.0
BD10177	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0988	0.0996	0.0992	0.0850 to 0.115	98.7	70.0 to 130	0.806	20.0
BD10175	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.0978	0.0999	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BD10177	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	14.7	14.5	4.78	4.25 to 5.75	96.8	70.0 to 130	1.37	20.0
BD10175	Calcium, Total	mg/L	0.000397	0.152	5.00	4.69	4.65	4.81	4.25 to 5.75	93.8	70.0 to 130	0.857	20.0
BD10171	Chloride	mg/L	0.000394	1.00	160	259	262	9.94	9.00 to 11.0	96.2	80.0 to 120	1.15	20.0
BD10177	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0982	0.101	0.0995	0.0850 to 0.115	98.2	70.0 to 130	2.81	20.0
BD10175	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD10177	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0962	0.100	0.0970	0.0850 to 0.115	96.0	70.0 to 130	3.87	20.0
BD10175	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BD10175	Fluoride	mg/L	0.0373	0.125	2.50	2.54	2.54	2.56	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD10177	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.204	0.203	0.201	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD10175	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.200	0.203	0.170 to 0.230	100	70.0 to 130	0.499	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 16:26

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-9

**Laboratory ID Number:** BD10171

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10177	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD10175	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD10177	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.259	0.255	0.205	0.170 to 0.230	104	70.0 to 130	1.56	20.0
BD10175	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.206	0.205	0.205	0.170 to 0.230	103	70.0 to 130	0.487	20.0
BD10177	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	7.64	7.53	5.02	4.25 to 5.75	101	70.0 to 130	1.45	20.0
BD10175	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	4.89	4.88	4.98	4.25 to 5.75	97.8	70.0 to 130	0.205	20.0
BD10177	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.207	0.215	0.106	0.0850 to 0.115	105	70.0 to 130	3.79	20.0
BD10175	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.102	0.100	0.102	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD10175	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00392	0.00391	0.00389	0.00340 to 0.00460	98.0	70.0 to 130	0.255	20.0
BD10177	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD10175	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.204	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10177	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	12.0	12.6	10.2	8.50 to 11.5	98.5	70.0 to 130	4.88	20.0
BD10175	Potassium, Total	mg/L	0.00141	0.367	10.0	10.5	10.2	10.6	8.50 to 11.5	105	70.0 to 130	2.90	20.0
BD10177	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.103	0.105	0.104	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD10175	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.102	0.0998	0.101	0.0850 to 0.115	102	70.0 to 130	2.18	20.0
BD10177	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	4.77	4.76	1.02	0.850 to 1.15	107	70.0 to 130	0.210	20.0
BD10175	Silicon, Total	mg/L	0.000658	0.0440	1.00	1.01	1.00	1.02	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BD10177	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	9.05	8.92	5.01	4.25 to 5.75	99.6	70.0 to 130	1.45	20.0
BD10175	Sodium, Total	mg/L	0.00301	0.0880	5.00	4.94	4.91	4.96	4.25 to 5.75	98.8	70.0 to 130	0.609	20.0
BD10175	Sulfate	mg/L	0.576	2.0	20.0	20.8	21.1	20.6	18.0 to 22.0	104	80.0 to 120	1.43	20.0
BD10177	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD10175	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.106	0.107	0.108	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD10174	Total Organic Carbon	mg/L	0.132	1.00	10.0	10.2	10.1	24.2		102	80.0 to 120	0.985	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 16:26

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-9

**Laboratory ID Number:** BD10171

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10179	Alkalinity	mg CaCO3/L					119	51.0	45.0 to 55.0			1.67	10.0
BD10175	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.99	-0.040	1.88	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD10171	Solids, Dissolved	mg/L	2.00	25.0			658	55.0	40.0 to 60.0			1.84	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-25

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 17:17  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10172

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 16:19		1.015	0.115	mg/L	0.030000	0.1015	
* Calcium, Total	6/2/23 11:34	6/6/23 16:19		1.015	13.9	mg/L	0.070035	0.406	
* Iron, Total	6/2/23 11:34	6/6/23 16:19		1.015	1.03	mg/L	0.008120	0.0406	
* Lithium, Total	6/2/23 11:34	6/6/23 16:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/2/23 11:34	6/6/23 16:19		1.015	8.80	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 16:19		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 16:19		1	23.1	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 16:19		1.015	10.8	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/6/23 16:19		1.015	39.7	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	6/1/23 12:45	6/6/23 13:25		1.015	0.112	mg/L	0.030000	0.1015	
* Calcium, Dissolved	6/1/23 12:45	6/6/23 13:25		1.015	15.2	mg/L	0.070035	0.406	
* Iron, Dissolved	6/1/23 12:45	6/6/23 13:25		1.015	1.00	mg/L	0.008120	0.0406	
* Lithium, Dissolved	6/1/23 12:45	6/6/23 13:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 13:25		1.015	8.72	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 13:25		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 13:25		1	23.1	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 13:25		1.015	10.8	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 13:25		1.015	39.1	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 14:26		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	6/2/23 11:34	6/2/23 14:26		1.015	0.0306	mg/L	0.009135	0.05075	J
* Arsenic, Total	6/2/23 11:34	6/2/23 14:26		1.015	0.000217	mg/L	0.000112	0.000203	
* Barium, Total	6/2/23 11:34	6/2/23 14:26		1.015	0.0824	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 14:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 14:26		1.015	0.000100	mg/L	0.000068	0.000203	J
* Chromium, Total	6/2/23 11:34	6/2/23 14:26		1.015	0.000249	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 14:26		1.015	0.0160	mg/L	0.000068	0.000203	
* Lead, Total	6/2/23 11:34	6/2/23 14:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 14:26		1.015	0.420	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-25

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 17:17  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10172

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 14:26		1.015	0.772	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 14:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 14:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 13:30		1.015	0.00154	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 13:30		1.015	0.0113	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 13:30		1.015	0.000388	mg/L	0.000112	0.000203	
* Barium, Dissolved	6/1/23 12:45	6/1/23 13:30		1.015	0.0846	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 13:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 13:30		1.015	0.0000737	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	6/1/23 12:45	6/1/23 13:30		1.015	0.000210	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 13:30		1.015	0.0145	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 13:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/1/23 13:30		1.015	0.403	mg/L	0.000152	0.001015	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 13:30		1.015	0.763	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 13:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 13:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 19:03		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 15:56	6/1/23 15:56		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/12/23 11:01	6/12/23 13:52		1	43.2	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:08	6/5/23 14:15		1	225	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	43.2	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 15:12	6/7/23 15:12		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-25

**Location Code:** WMWGREAP

**Collected:** 5/30/23 17:17

**Customer ID:**

**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10172

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 09:40	6/8/23 09:40		1	19.9	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 10:42	6/9/23 10:42		1	0.0807	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 10:46	6/7/23 10:46		3	88.1	mg/L	1.8	6	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	5/30/23 17:15	5/30/23 17:15			322.91	uS/cm			FA
pH	5/30/23 17:15	5/30/23 17:15			5.45	SU			FA
Temperature	5/30/23 17:15	5/30/23 17:15			20.83	C			FA
Turbidity	5/30/23 17:15	5/30/23 17:15			0.46	NTU			FA
Sulfide	5/30/23 17:15	5/30/23 17:15			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 17:17

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-25

**Laboratory ID Number:** BD10172

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10177	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD10175	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10177	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0936	0.0953	0.0907	0.0850 to 0.115	92.5	70.0 to 130	1.80	20.0
BD10175	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0899	0.0888	0.0921	0.0850 to 0.115	89.9	70.0 to 130	1.23	20.0
BD10177	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0995	0.103	0.103	0.0850 to 0.115	99.2	70.0 to 130	3.46	20.0
BD10175	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10177	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.126	0.128	0.104	0.0850 to 0.115	103	70.0 to 130	1.57	20.0
BD10175	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD10177	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.102	0.102	0.104	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD10175	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.109	0.108	0.105	0.0850 to 0.115	109	70.0 to 130	0.922	20.0
BD10177	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.07	1.08	0.999	0.850 to 1.15	100	70.0 to 130	0.930	20.0
BD10175	Boron, Total	mg/L	0.000112	0.0650	1.00	1.04	0.987	0.998	0.850 to 1.15	104	70.0 to 130	5.23	20.0
BD10177	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0988	0.0996	0.0992	0.0850 to 0.115	98.7	70.0 to 130	0.806	20.0
BD10175	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.0978	0.0999	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BD10177	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	14.7	14.5	4.78	4.25 to 5.75	96.8	70.0 to 130	1.37	20.0
BD10175	Calcium, Total	mg/L	0.000397	0.152	5.00	4.69	4.65	4.81	4.25 to 5.75	93.8	70.0 to 130	0.857	20.0
BD10181	Chloride	mg/L	-0.000416	1.00	10.0	22.3	22.4	10.1	9.00 to 11.0	90.0	80.0 to 120	0.447	20.0
BD10177	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0982	0.101	0.0995	0.0850 to 0.115	98.2	70.0 to 130	2.81	20.0
BD10175	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD10177	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0962	0.100	0.0970	0.0850 to 0.115	96.0	70.0 to 130	3.87	20.0
BD10175	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BD10175	Fluoride	mg/L	0.0373	0.125	2.50	2.54	2.54	2.56	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD10177	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.204	0.203	0.201	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD10175	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.200	0.203	0.170 to 0.230	100	70.0 to 130	0.499	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 17:17

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-25

**Laboratory ID Number:** BD10172

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10177	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD10175	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD10177	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.259	0.255	0.205	0.170 to 0.230	104	70.0 to 130	1.56	20.0
BD10175	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.206	0.205	0.205	0.170 to 0.230	103	70.0 to 130	0.487	20.0
BD10177	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	7.64	7.53	5.02	4.25 to 5.75	101	70.0 to 130	1.45	20.0
BD10175	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	4.89	4.88	4.98	4.25 to 5.75	97.8	70.0 to 130	0.205	20.0
BD10177	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.207	0.215	0.106	0.0850 to 0.115	105	70.0 to 130	3.79	20.0
BD10175	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.102	0.100	0.102	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD10175	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00392	0.00391	0.00389	0.00340 to 0.00460	98.0	70.0 to 130	0.255	20.0
BD10177	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD10175	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.204	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10177	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	12.0	12.6	10.2	8.50 to 11.5	98.5	70.0 to 130	4.88	20.0
BD10175	Potassium, Total	mg/L	0.00141	0.367	10.0	10.5	10.2	10.6	8.50 to 11.5	105	70.0 to 130	2.90	20.0
BD10177	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.103	0.105	0.104	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD10175	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.102	0.0998	0.101	0.0850 to 0.115	102	70.0 to 130	2.18	20.0
BD10177	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	4.77	4.76	1.02	0.850 to 1.15	107	70.0 to 130	0.210	20.0
BD10175	Silicon, Total	mg/L	0.000658	0.0440	1.00	1.01	1.00	1.02	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BD10177	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	9.05	8.92	5.01	4.25 to 5.75	99.6	70.0 to 130	1.45	20.0
BD10175	Sodium, Total	mg/L	0.00301	0.0880	5.00	4.94	4.91	4.96	4.25 to 5.75	98.8	70.0 to 130	0.609	20.0
BD10175	Sulfate	mg/L	0.576	2.0	20.0	20.8	21.1	20.6	18.0 to 22.0	104	80.0 to 120	1.43	20.0
BD10177	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD10175	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.106	0.107	0.108	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD10174	Total Organic Carbon	mg/L	0.132	1.00	10.0	10.2	10.1	24.2		102	80.0 to 120	0.985	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 17:17

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-25

**Laboratory ID Number:** BD10172

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10179	Alkalinity	mg CaCO3/L					119	51.0	45.0 to 55.0			1.67	10.0
BD10175	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.99	-0.040	1.88	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD10181	Solids, Dissolved	mg/L	2.00	25.0			568	55.0	40.0 to 60.0			0.530	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-42H

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 12:32  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10173

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 16:22		1.015	1.58	mg/L	0.030000	0.1015	
* Calcium, Total	6/2/23 11:34	6/8/23 13:35		10.15	70.6	mg/L	0.70035	4.06	
* Iron, Total	6/2/23 11:34	6/8/23 13:35		10.15	15.0	mg/L	0.08120	0.406	
* Lithium, Total	6/2/23 11:34	6/6/23 16:22		1.015	0.0290	mg/L	0.007105	0.01999956	
* Magnesium, Total	6/2/23 11:34	6/6/23 16:22		1.015	11.9	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 16:22		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 16:22		1	9.59	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 16:22		1.015	4.48	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/6/23 16:22		1.015	34.1	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>						
* Boron, Dissolved	6/1/23 12:45	6/6/23 13:28		1.015	1.60	mg/L	0.030000	0.1015	
* Calcium, Dissolved	6/1/23 12:45	6/6/23 15:22		10.15	76.0	mg/L	0.70035	4.06	
* Iron, Dissolved	6/1/23 12:45	6/6/23 15:22		10.15	14.8	mg/L	0.08120	0.406	
* Lithium, Dissolved	6/1/23 12:45	6/6/23 13:28		1.015	0.0297	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 13:28		1.015	12.1	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 13:28		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 13:28		1	9.57	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 13:28		1.015	4.47	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 13:28		1.015	34.2	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 14:29		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	6/2/23 11:34	6/2/23 14:29		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	6/2/23 11:34	6/2/23 14:29		1.015	0.00455	mg/L	0.000112	0.000203	
* Barium, Total	6/2/23 11:34	6/2/23 14:29		1.015	0.133	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 14:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 14:29		1.015	0.000152	mg/L	0.000068	0.000203	J
* Chromium, Total	6/2/23 11:34	6/2/23 14:29		1.015	0.000242	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 14:29		1.015	0.0500	mg/L	0.000068	0.000203	
* Lead, Total	6/2/23 11:34	6/2/23 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 16:48		5.075	4.53	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-42H

**Location Code:** WMWGREAP

**Collected:** 5/30/23 12:32

**Customer ID:**

**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10173

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 14:29		1.015	3.88	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 14:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 14:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 13:33		1.015	0.00124	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 13:33		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 13:33		1.015	0.00430	mg/L	0.000112	0.000203	
* Barium, Dissolved	6/1/23 12:45	6/1/23 13:33		1.015	0.128	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 13:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 13:33		1.015	0.000133	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	6/1/23 12:45	6/1/23 13:33		1.015	0.000234	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 13:33		1.015	0.0477	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/2/23 09:44		5.075	4.39	mg/L	0.000761	0.005075	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 13:33		1.015	3.69	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 13:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 13:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 19:07		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 15:58	6/1/23 15:58		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/9/23 09:47	6/9/23 11:51		1	157	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:08	6/5/23 14:15		1	377	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/9/23 09:47	6/9/23 11:51		1	157	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/9/23 09:47	6/9/23 11:51		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 15:28	6/7/23 15:28		1	2.20	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-42H

**Location Code:** WMWGREAP

**Collected:** 5/30/23 12:32

**Customer ID:**

**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10173

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 09:41	6/8/23 09:41		1	16.6	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 10:43	6/9/23 10:43		1	0.0890	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 10:47	6/7/23 10:47		6	124	mg/L	3.6	12	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/30/23 12:29	5/30/23 12:29			555.77	uS/cm			FA
pH	5/30/23 12:29	5/30/23 12:29			6.20	SU			FA
Temperature	5/30/23 12:29	5/30/23 12:29			20.55	C			FA
Turbidity	5/30/23 12:29	5/30/23 12:29			9.21	NTU			FA
Sulfide	5/30/23 12:29	5/30/23 12:29			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 12:32

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-42H

**Laboratory ID Number:** BD10173

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10177	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD10175	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10177	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0936	0.0953	0.0907	0.0850 to 0.115	92.5	70.0 to 130	1.80	20.0
BD10175	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0899	0.0888	0.0921	0.0850 to 0.115	89.9	70.0 to 130	1.23	20.0
BD10177	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0995	0.103	0.103	0.0850 to 0.115	99.2	70.0 to 130	3.46	20.0
BD10175	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10177	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.126	0.128	0.104	0.0850 to 0.115	103	70.0 to 130	1.57	20.0
BD10175	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD10177	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.102	0.102	0.104	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD10175	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.109	0.108	0.105	0.0850 to 0.115	109	70.0 to 130	0.922	20.0
BD10177	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.07	1.08	0.999	0.850 to 1.15	100	70.0 to 130	0.930	20.0
BD10175	Boron, Total	mg/L	0.000112	0.0650	1.00	1.04	0.987	0.998	0.850 to 1.15	104	70.0 to 130	5.23	20.0
BD10177	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0988	0.0996	0.0992	0.0850 to 0.115	98.7	70.0 to 130	0.806	20.0
BD10175	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.0978	0.0999	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BD10177	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	14.7	14.5	4.78	4.25 to 5.75	96.8	70.0 to 130	1.37	20.0
BD10175	Calcium, Total	mg/L	0.000397	0.152	5.00	4.69	4.65	4.81	4.25 to 5.75	93.8	70.0 to 130	0.857	20.0
BD10181	Chloride	mg/L	-0.000416	1.00	10.0	22.3	22.4	10.1	9.00 to 11.0	90.0	80.0 to 120	0.447	20.0
BD10177	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0982	0.101	0.0995	0.0850 to 0.115	98.2	70.0 to 130	2.81	20.0
BD10175	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD10177	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0962	0.100	0.0970	0.0850 to 0.115	96.0	70.0 to 130	3.87	20.0
BD10175	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BD10175	Fluoride	mg/L	0.0373	0.125	2.50	2.54	2.54	2.56	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD10177	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.204	0.203	0.201	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD10175	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.200	0.203	0.170 to 0.230	100	70.0 to 130	0.499	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 12:32

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-42H

**Laboratory ID Number:** BD10173

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10177	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD10175	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD10177	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.259	0.255	0.205	0.170 to 0.230	104	70.0 to 130	1.56	20.0
BD10175	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.206	0.205	0.205	0.170 to 0.230	103	70.0 to 130	0.487	20.0
BD10177	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	7.64	7.53	5.02	4.25 to 5.75	101	70.0 to 130	1.45	20.0
BD10175	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	4.89	4.88	4.98	4.25 to 5.75	97.8	70.0 to 130	0.205	20.0
BD10177	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.207	0.215	0.106	0.0850 to 0.115	105	70.0 to 130	3.79	20.0
BD10175	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.102	0.100	0.102	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD10175	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00392	0.00391	0.00389	0.00340 to 0.00460	98.0	70.0 to 130	0.255	20.0
BD10177	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD10175	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.204	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10177	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	12.0	12.6	10.2	8.50 to 11.5	98.5	70.0 to 130	4.88	20.0
BD10175	Potassium, Total	mg/L	0.00141	0.367	10.0	10.5	10.2	10.6	8.50 to 11.5	105	70.0 to 130	2.90	20.0
BD10177	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.103	0.105	0.104	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD10175	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.102	0.0998	0.101	0.0850 to 0.115	102	70.0 to 130	2.18	20.0
BD10177	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	4.77	4.76	1.02	0.850 to 1.15	107	70.0 to 130	0.210	20.0
BD10175	Silicon, Total	mg/L	0.000658	0.0440	1.00	1.01	1.00	1.02	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BD10177	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	9.05	8.92	5.01	4.25 to 5.75	99.6	70.0 to 130	1.45	20.0
BD10175	Sodium, Total	mg/L	0.00301	0.0880	5.00	4.94	4.91	4.96	4.25 to 5.75	98.8	70.0 to 130	0.609	20.0
BD10175	Sulfate	mg/L	0.576	2.0	20.0	20.8	21.1	20.6	18.0 to 22.0	104	80.0 to 120	1.43	20.0
BD10177	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD10175	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.106	0.107	0.108	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD10174	Total Organic Carbon	mg/L	0.132	1.00	10.0	10.2	10.1	24.2		102	80.0 to 120	0.985	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 12:32

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-42H

**Laboratory ID Number:** BD10173

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10173	Alkalinity	mg CaCO3/L					158	50.0	45.0 to 55.0			0.635	10.0
BD10175	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.99	-0.040	1.88	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD10181	Solids, Dissolved	mg/L	2.00	25.0			568	55.0	40.0 to 60.0			0.530	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-49H

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 13:22  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10174

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 16:26		1.015	0.413	mg/L	0.030000	0.1015	
* Calcium, Total	6/2/23 11:34	6/6/23 16:26		1.015	29.6	mg/L	0.070035	0.406	
* Iron, Total	6/2/23 11:34	6/6/23 16:26		1.015	0.280	mg/L	0.008120	0.0406	
* Lithium, Total	6/2/23 11:34	6/6/23 16:26		1.015	0.0691	mg/L	0.007105	0.01999956	
* Magnesium, Total	6/2/23 11:34	6/6/23 16:26		1.015	9.23	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 16:26		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 16:26		1	5.61	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 16:26		1.015	2.62	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/6/23 16:26		1.015	19.2	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	6/1/23 12:45	6/6/23 13:31		1.015	0.409	mg/L	0.030000	0.1015	
* Calcium, Dissolved	6/1/23 12:45	6/6/23 13:31		1.015	30.7	mg/L	0.070035	0.406	
* Iron, Dissolved	6/1/23 12:45	6/6/23 13:31		1.015	0.243	mg/L	0.008120	0.0406	
* Lithium, Dissolved	6/1/23 12:45	6/6/23 13:31		1.015	0.0675	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 13:31		1.015	9.18	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 13:31		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 13:31		1	5.61	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 13:31		1.015	2.62	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 13:31		1.015	18.9	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 14:33		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	6/2/23 11:34	6/2/23 14:33		1.015	0.0699	mg/L	0.009135	0.05075	
* Arsenic, Total	6/2/23 11:34	6/2/23 14:33		1.015	0.000469	mg/L	0.000112	0.000203	
* Barium, Total	6/2/23 11:34	6/2/23 14:33		1.015	0.0497	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 14:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 14:33		1.015	0.000412	mg/L	0.000068	0.000203	
* Chromium, Total	6/2/23 11:34	6/2/23 14:33		1.015	0.000292	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 14:33		1.015	0.00769	mg/L	0.000068	0.000203	
* Lead, Total	6/2/23 11:34	6/2/23 14:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 16:52		5.075	2.78	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-49H

**Location Code:** WMWGREAP

**Collected:** 5/30/23 13:22

**Customer ID:**

**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10174

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 14:33		1.015	5.23	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 14:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 14:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 13:37		1.015	0.00111	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 13:37		1.015	0.0658	mg/L	0.009135	0.05075	
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 13:37		1.015	0.000612	mg/L	0.000112	0.000203	
* Barium, Dissolved	6/1/23 12:45	6/1/23 13:37		1.015	0.0465	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 13:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 13:37		1.015	0.000353	mg/L	0.000068	0.000203	
* Chromium, Dissolved	6/1/23 12:45	6/1/23 13:37		1.015	0.000254	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 13:37		1.015	0.00724	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 13:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/2/23 09:48		5.075	2.71	mg/L	0.000761	0.005075	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 13:37		1.015	4.97	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 13:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 13:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 19:11		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 15:59	6/1/23 15:59		1	0.377	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/9/23 09:47	6/9/23 11:51		1	32.5	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:08	6/5/23 14:15		1	229	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/9/23 09:47	6/9/23 11:51		1	32.5	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/9/23 09:47	6/9/23 11:51		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 15:59	6/7/23 15:59		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-49H

**Location Code:** WMWGREAP

**Collected:** 5/30/23 13:22

**Customer ID:**

**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10174

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 09:42	6/8/23 09:42		1	8.09	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 10:45	6/9/23 10:45		1	0.0965	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 10:48	6/7/23 10:48		6	127	mg/L	3.6	12	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/30/23 13:19	5/30/23 13:19			340.93	uS/cm			FA
pH	5/30/23 13:19	5/30/23 13:19			5.60	SU			FA
Temperature	5/30/23 13:19	5/30/23 13:19			21.70	C			FA
Turbidity	5/30/23 13:19	5/30/23 13:19			2.8	NTU			FA
Sulfide	5/30/23 13:19	5/30/23 13:19			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 5/30/23 13:22  
**Customer ID:**  
**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-49H

**Laboratory ID Number:** BD10174

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10177	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD10175	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10177	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0936	0.0953	0.0907	0.0850 to 0.115	92.5	70.0 to 130	1.80	20.0
BD10175	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0899	0.0888	0.0921	0.0850 to 0.115	89.9	70.0 to 130	1.23	20.0
BD10177	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0995	0.103	0.103	0.0850 to 0.115	99.2	70.0 to 130	3.46	20.0
BD10175	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10177	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.126	0.128	0.104	0.0850 to 0.115	103	70.0 to 130	1.57	20.0
BD10175	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD10177	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.102	0.102	0.104	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD10175	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.109	0.108	0.105	0.0850 to 0.115	109	70.0 to 130	0.922	20.0
BD10177	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.07	1.08	0.999	0.850 to 1.15	100	70.0 to 130	0.930	20.0
BD10175	Boron, Total	mg/L	0.000112	0.0650	1.00	1.04	0.987	0.998	0.850 to 1.15	104	70.0 to 130	5.23	20.0
BD10177	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0988	0.0996	0.0992	0.0850 to 0.115	98.7	70.0 to 130	0.806	20.0
BD10175	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.0978	0.0999	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BD10177	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	14.7	14.5	4.78	4.25 to 5.75	96.8	70.0 to 130	1.37	20.0
BD10175	Calcium, Total	mg/L	0.000397	0.152	5.00	4.69	4.65	4.81	4.25 to 5.75	93.8	70.0 to 130	0.857	20.0
BD10181	Chloride	mg/L	-0.000416	1.00	10.0	22.3	22.4	10.1	9.00 to 11.0	90.0	80.0 to 120	0.447	20.0
BD10177	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0982	0.101	0.0995	0.0850 to 0.115	98.2	70.0 to 130	2.81	20.0
BD10175	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD10177	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0962	0.100	0.0970	0.0850 to 0.115	96.0	70.0 to 130	3.87	20.0
BD10175	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BD10175	Fluoride	mg/L	0.0373	0.125	2.50	2.54	2.54	2.56	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD10177	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.204	0.203	0.201	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD10175	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.200	0.203	0.170 to 0.230	100	70.0 to 130	0.499	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 13:22

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-49H

**Laboratory ID Number:** BD10174

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10177	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD10175	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD10177	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.259	0.255	0.205	0.170 to 0.230	104	70.0 to 130	1.56	20.0
BD10175	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.206	0.205	0.205	0.170 to 0.230	103	70.0 to 130	0.487	20.0
BD10177	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	7.64	7.53	5.02	4.25 to 5.75	101	70.0 to 130	1.45	20.0
BD10175	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	4.89	4.88	4.98	4.25 to 5.75	97.8	70.0 to 130	0.205	20.0
BD10177	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.207	0.215	0.106	0.0850 to 0.115	105	70.0 to 130	3.79	20.0
BD10175	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.102	0.100	0.102	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD10175	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00392	0.00391	0.00389	0.00340 to 0.00460	98.0	70.0 to 130	0.255	20.0
BD10177	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD10175	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.204	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10177	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	12.0	12.6	10.2	8.50 to 11.5	98.5	70.0 to 130	4.88	20.0
BD10175	Potassium, Total	mg/L	0.00141	0.367	10.0	10.5	10.2	10.6	8.50 to 11.5	105	70.0 to 130	2.90	20.0
BD10177	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.103	0.105	0.104	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD10175	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.102	0.0998	0.101	0.0850 to 0.115	102	70.0 to 130	2.18	20.0
BD10177	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	4.77	4.76	1.02	0.850 to 1.15	107	70.0 to 130	0.210	20.0
BD10175	Silicon, Total	mg/L	0.000658	0.0440	1.00	1.01	1.00	1.02	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BD10177	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	9.05	8.92	5.01	4.25 to 5.75	99.6	70.0 to 130	1.45	20.0
BD10175	Sodium, Total	mg/L	0.00301	0.0880	5.00	4.94	4.91	4.96	4.25 to 5.75	98.8	70.0 to 130	0.609	20.0
BD10175	Sulfate	mg/L	0.576	2.0	20.0	20.8	21.1	20.6	18.0 to 22.0	104	80.0 to 120	1.43	20.0
BD10177	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD10175	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.106	0.107	0.108	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD10174	Total Organic Carbon	mg/L	0.132	1.00	10.0	10.2	10.1	24.2		102	80.0 to 120	0.985	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 13:22

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-49H

**Laboratory ID Number:** BD10174

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10173	Alkalinity	mg CaCO3/L					158	50.0	45.0 to 55.0			0.635	10.0
BD10175	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.99	-0.040	1.88	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD10181	Solids, Dissolved	mg/L	2.00	25.0			568	55.0	40.0 to 60.0			0.530	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-5

**Location Code:** WMWGREAPFB  
**Collected:** 5/30/23 13:40  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10175

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 16:29		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/2/23 11:34	6/6/23 16:29		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	6/2/23 11:34	6/6/23 16:29		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/2/23 11:34	6/6/23 16:29		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/2/23 11:34	6/6/23 16:29		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	6/2/23 11:34	6/6/23 16:29		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 16:29		1	Not Detected	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 16:29		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	6/2/23 11:34	6/6/23 16:29		1.015	Not Detected	mg/L	0.04060	0.406	U
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 14:36		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	6/2/23 11:34	6/2/23 14:36		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	6/2/23 11:34	6/2/23 14:36		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	6/2/23 11:34	6/2/23 14:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	6/2/23 11:34	6/2/23 14:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/2/23 11:34	6/2/23 14:36		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	6/2/23 11:34	6/2/23 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	6/2/23 11:34	6/2/23 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 14:36		1.015	0.000239	mg/L	0.000152	0.001015	J
* Potassium, Total	6/2/23 11:34	6/2/23 14:36		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	6/2/23 11:34	6/2/23 14:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 14:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>			<b>Analyst: ELH</b>						
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 19:15		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>			<b>Analyst: SC</b>						
* Nitrogen, Nitrate/Nitrite	6/1/23 16:01	6/1/23 16:01		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2540C</b>			<b>Analyst: CNJ</b>						
* Solids, Dissolved	6/2/23 10:08	6/5/23 14:15		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-5

**Location Code:** WMWGREAPFB

**Collected:** 5/30/23 13:40

**Customer ID:**

**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10175

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 15:42	6/7/23 15:42		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 09:44	6/8/23 09:44		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 10:46	6/9/23 10:46		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 10:36	6/7/23 10:36		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**



# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/30/23 13:40

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond Field Blank-5

**Laboratory ID Number:** BD10175

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10175	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10175	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0899	0.0888	0.0921	0.0850 to 0.115	89.9	70.0 to 130	1.23	20.0
BD10175	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10175	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.101	0.102	0.102	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD10175	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.109	0.108	0.105	0.0850 to 0.115	109	70.0 to 130	0.922	20.0
BD10175	Boron, Total	mg/L	0.000112	0.0650	1.00	1.04	0.987	0.998	0.850 to 1.15	104	70.0 to 130	5.23	20.0
BD10175	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.0978	0.0999	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BD10175	Calcium, Total	mg/L	0.000397	0.152	5.00	4.69	4.65	4.81	4.25 to 5.75	93.8	70.0 to 130	0.857	20.0
BD10181	Chloride	mg/L	-0.000416	1.00	10.0	22.3	22.4	10.1	9.00 to 11.0	90.0	80.0 to 120	0.447	20.0
BD10175	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.100	0.101	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD10175	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.100	0.0993	0.101	0.0850 to 0.115	100	70.0 to 130	0.702	20.0
BD10175	Fluoride	mg/L	0.0373	0.125	2.50	2.54	2.54	2.56	2.25 to 2.75	102	80.0 to 120	0.00	20.0
BD10175	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.200	0.203	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD10175	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.106	0.104	0.107	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD10175	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.206	0.205	0.205	0.170 to 0.230	103	70.0 to 130	0.487	20.0
BD10175	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	4.89	4.88	4.98	4.25 to 5.75	97.8	70.0 to 130	0.205	20.0
BD10175	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.102	0.100	0.102	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD10175	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00392	0.00391	0.00389	0.00340 to 0.00460	98.0	70.0 to 130	0.255	20.0
BD10175	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.204	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10175	Potassium, Total	mg/L	0.00141	0.367	10.0	10.5	10.2	10.6	8.50 to 11.5	105	70.0 to 130	2.90	20.0
BD10175	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.102	0.0998	0.101	0.0850 to 0.115	102	70.0 to 130	2.18	20.0
BD10175	Silicon, Total	mg/L	0.000658	0.0440	1.00	1.01	1.00	1.02	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BD10175	Sodium, Total	mg/L	0.00301	0.0880	5.00	4.94	4.91	4.96	4.25 to 5.75	98.8	70.0 to 130	0.609	20.0
BD10175	Sulfate	mg/L	0.576	2.0	20.0	20.8	21.1	20.6	18.0 to 22.0	104	80.0 to 120	1.43	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/30/23 13:40

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond Field Blank-5

**Laboratory ID Number:** BD10175

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Limit			Limit	Limit	Prec			
BD10175	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.106	0.107	0.108	0.0850 to 0.115		106	70.0 to 130		0.939	20.0
BD10174	Total Organic Carbon	mg/L	0.132	1.00	10.0	10.2	10.1	24.2			102	80.0 to 120		0.985	20.0

**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/30/23 13:40

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond Field Blank-5

**Laboratory ID Number:** BD10175

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10175	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.99	-0.040	1.88	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD10181	Solids, Dissolved	mg/L	2.00	25.0			568	55.0	40.0 to 60.0			0.530	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-48H

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 14:28  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10176

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 16:45		1.015	0.0653	mg/L	0.030000	0.1015	J
* Calcium, Total	6/2/23 11:34	6/6/23 16:45		1.015	9.80	mg/L	0.070035	0.406	
* Iron, Total	6/2/23 11:34	6/6/23 16:45		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/2/23 11:34	6/6/23 16:45		1.015	0.0482	mg/L	0.007105	0.01999956	
* Magnesium, Total	6/2/23 11:34	6/6/23 16:45		1.015	2.55	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 16:45		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 16:45		1	7.94	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 16:45		1.015	3.71	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/6/23 16:45		1.015	3.91	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	6/1/23 12:45	6/6/23 13:34		1.015	0.0645	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	6/1/23 12:45	6/6/23 13:34		1.015	9.67	mg/L	0.070035	0.406	
* Iron, Dissolved	6/1/23 12:45	6/6/23 13:34		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	6/1/23 12:45	6/6/23 13:34		1.015	0.0497	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 13:34		1.015	2.58	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 13:34		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 13:34		1	7.94	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 13:34		1.015	3.71	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 13:34		1.015	3.96	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 14:58		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	6/2/23 11:34	6/2/23 14:58		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	6/2/23 11:34	6/2/23 14:58		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	6/2/23 11:34	6/2/23 14:58		1.015	0.0240	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 14:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 14:58		1.015	0.0000852	mg/L	0.000068	0.000203	J
* Chromium, Total	6/2/23 11:34	6/2/23 14:58		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	6/2/23 11:34	6/2/23 14:58		1.015	0.000144	mg/L	0.000068	0.000203	J
* Lead, Total	6/2/23 11:34	6/2/23 14:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 14:58		1.015	0.103	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-48H

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 14:28  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10176

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 14:58		1.015	2.22	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 14:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 14:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 13:41		1.015	0.00122	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 13:41		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 13:41		1.015	0.000253	mg/L	0.000112	0.000203	
* Barium, Dissolved	6/1/23 12:45	6/1/23 13:41		1.015	0.0242	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 13:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 13:41		1.015	0.000105	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	6/1/23 12:45	6/1/23 13:41		1.015	0.000239	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 13:41		1.015	0.000178	mg/L	0.000068	0.000203	J
* Lead, Dissolved	6/1/23 12:45	6/1/23 13:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/1/23 13:41		1.015	0.105	mg/L	0.000152	0.001015	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 13:41		1.015	2.19	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 13:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 13:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 19:35		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 16:10	6/1/23 16:10		1	0.230	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/9/23 09:47	6/9/23 11:51		1	20.5	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:08	6/5/23 14:15		1	66.7	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/9/23 09:47	6/9/23 11:51		1	20.5	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/9/23 09:47	6/9/23 11:51		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 17:09	6/7/23 17:09		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-48H

**Location Code:** WMWGREAP

**Collected:** 5/30/23 14:28

**Customer ID:**

**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10176

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 09:45	6/8/23 09:45		1	2.77	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 10:57	6/9/23 10:57		1	0.0870	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 11:00	6/7/23 11:00		1	25.0	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/30/23 14:25	5/30/23 14:25			96.83	uS/cm			FA
pH	5/30/23 14:25	5/30/23 14:25			5.45	SU			FA
Temperature	5/30/23 14:25	5/30/23 14:25			18.96	C			FA
Turbidity	5/30/23 14:25	5/30/23 14:25			1.94	NTU			FA
Sulfide	5/30/23 14:25	5/30/23 14:25			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 14:28

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-48H

**Laboratory ID Number:** BD10176

Sample	Analysis	Units	MB				Standard			Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10177	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD10185	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.148	0.149	0.106	0.0850 to 0.115	100	70.0 to 130	0.673	20.0
BD10177	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0936	0.0953	0.0907	0.0850 to 0.115	92.5	70.0 to 130	1.80	20.0
BD10185	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0907	0.0901	0.0921	0.0850 to 0.115	90.7	70.0 to 130	0.664	20.0
BD10177	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0995	0.103	0.103	0.0850 to 0.115	99.2	70.0 to 130	3.46	20.0
BD10185	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10177	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.126	0.128	0.104	0.0850 to 0.115	103	70.0 to 130	1.57	20.0
BD10185	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.277	0.277	0.102	0.0850 to 0.115	98.0	70.0 to 130	0.00	20.0
BD10177	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.102	0.102	0.104	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD10185	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.104	0.108	0.105	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BD10177	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.07	1.08	0.999	0.850 to 1.15	100	70.0 to 130	0.930	20.0
BD10185	Boron, Total	mg/L	0.000112	0.0650	1.00	1.02	1.02	0.998	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD10177	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0988	0.0996	0.0992	0.0850 to 0.115	98.7	70.0 to 130	0.806	20.0
BD10185	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.0978	0.0969	0.0999	0.0850 to 0.115	97.3	70.0 to 130	0.924	20.0
BD10177	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	14.7	14.5	4.78	4.25 to 5.75	96.8	70.0 to 130	1.37	20.0
BD10185	Calcium, Total	mg/L	0.000397	0.152	5.00	7.01	6.91	4.81	4.25 to 5.75	95.8	70.0 to 130	1.44	20.0
BD10181	Chloride	mg/L	-0.000416	1.00	10.0	22.3	22.4	10.1	9.00 to 11.0	90.0	80.0 to 120	0.447	20.0
BD10177	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0982	0.101	0.0995	0.0850 to 0.115	98.2	70.0 to 130	2.81	20.0
BD10185	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.0999	0.101	0.0850 to 0.115	99.4	70.0 to 130	0.100	20.0
BD10177	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0962	0.100	0.0970	0.0850 to 0.115	96.0	70.0 to 130	3.87	20.0
BD10185	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.0994	0.0988	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.605	20.0
BD10185	Fluoride	mg/L	0.0634	0.125	2.50	2.38	2.38	2.55	2.25 to 2.75	95.2	80.0 to 120	0.00	20.0
BD10177	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.204	0.203	0.201	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD10185	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 14:28

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-48H

**Laboratory ID Number:** BD10176

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10177	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD10185	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.105	0.106	0.107	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD10177	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.259	0.255	0.205	0.170 to 0.230	104	70.0 to 130	1.56	20.0
BD10185	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.204	0.206	0.205	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BD10177	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	7.64	7.53	5.02	4.25 to 5.75	101	70.0 to 130	1.45	20.0
BD10185	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	6.47	6.42	4.98	4.25 to 5.75	99.4	70.0 to 130	0.776	20.0
BD10177	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.207	0.215	0.106	0.0850 to 0.115	105	70.0 to 130	3.79	20.0
BD10185	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.153	0.153	0.102	0.0850 to 0.115	99.9	70.0 to 130	0.00	20.0
BD10185	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00391	0.00391	0.00389	0.00340 to 0.00460	97.8	70.0 to 130	0.00	20.0
BD10177	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD10185	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.205	0.205	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD10177	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	12.0	12.6	10.2	8.50 to 11.5	98.5	70.0 to 130	4.88	20.0
BD10185	Potassium, Total	mg/L	0.00141	0.367	10.0	11.8	11.7	10.6	8.50 to 11.5	102	70.0 to 130	0.851	20.0
BD10177	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.103	0.105	0.104	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD10185	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.0975	0.0963	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.24	20.0
BD10177	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	4.77	4.76	1.02	0.850 to 1.15	107	70.0 to 130	0.210	20.0
BD10185	Silicon, Total	mg/L	0.000658	0.0440	1.00	4.67	4.65	1.02	0.850 to 1.15	104	70.0 to 130	0.429	20.0
BD10177	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	9.05	8.92	5.01	4.25 to 5.75	99.6	70.0 to 130	1.45	20.0
BD10185	Sodium, Total	mg/L	0.00301	0.0880	5.00	6.14	6.18	4.96	4.25 to 5.75	96.4	70.0 to 130	0.649	20.0
BD10185	Sulfate	mg/L	-0.0671	2.0	20.0	31.2	31.4	20.5	18.0 to 22.0	106	80.0 to 120	0.639	20.0
BD10177	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD10185	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD10184	Total Organic Carbon	mg/L	0.128	1.00	10.0	9.93	9.34	22.9		99.3	80.0 to 120	6.12	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 14:28

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-48H

**Laboratory ID Number:** BD10176

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10173	Alkalinity	mg CaCO3/L					158	50.0	45.0 to 55.0			0.635	10.0
BD10185	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.77	0.737	1.86	1.80 to 2.20	103	90.0 to 110	2.75	15.0
BD10181	Solids, Dissolved	mg/L	2.00	25.0			568	55.0	40.0 to 60.0			0.530	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-48H Dup

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 14:28  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10177

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 16:48		1.015	0.0645	mg/L	0.030000	0.1015	J
* Calcium, Total	6/2/23 11:34	6/6/23 16:48		1.015	9.80	mg/L	0.070035	0.406	
* Iron, Total	6/2/23 11:34	6/6/23 16:48		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/2/23 11:34	6/6/23 16:48		1.015	0.0482	mg/L	0.007105	0.01999956	
* Magnesium, Total	6/2/23 11:34	6/6/23 16:48		1.015	2.53	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 16:48		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 16:48		1	7.85	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 16:48		1.015	3.67	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/6/23 16:48		1.015	3.87	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	6/1/23 12:45	6/6/23 13:38		1.015	0.0652	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	6/1/23 12:45	6/6/23 13:38		1.015	9.86	mg/L	0.070035	0.406	
* Iron, Dissolved	6/1/23 12:45	6/6/23 13:38		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	6/1/23 12:45	6/6/23 13:38		1.015	0.0503	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 13:38		1.015	2.60	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 13:38		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 13:38		1	7.92	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 13:38		1.015	3.70	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 13:38		1.015	4.07	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 15:01		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	6/2/23 11:34	6/2/23 15:01		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	6/2/23 11:34	6/2/23 15:01		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	6/2/23 11:34	6/2/23 15:01		1.015	0.0245	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 15:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 15:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/2/23 11:34	6/2/23 15:01		1.015	0.000265	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 15:01		1.015	0.000153	mg/L	0.000068	0.000203	J
* Lead, Total	6/2/23 11:34	6/2/23 15:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 15:01		1.015	0.101	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-48H Dup

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 14:28  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10177

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 15:01		1.015	2.20	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 15:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 15:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 13:44		1.015	0.00113	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 13:44		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 13:44		1.015	0.000260	mg/L	0.000112	0.000203	
* Barium, Dissolved	6/1/23 12:45	6/1/23 13:44		1.015	0.0233	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 13:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 13:44		1.015	0.000121	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	6/1/23 12:45	6/1/23 13:44		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 13:44		1.015	0.000164	mg/L	0.000068	0.000203	J
* Lead, Dissolved	6/1/23 12:45	6/1/23 13:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/1/23 13:44		1.015	0.102	mg/L	0.000152	0.001015	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 13:44		1.015	2.15	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 13:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 13:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 19:39		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 16:12	6/1/23 16:12		1	0.228	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/9/23 09:47	6/9/23 11:51		1	18.2	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:08	6/5/23 14:15		1	66.7	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/9/23 09:47	6/9/23 11:51		1	18.2	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/9/23 09:47	6/9/23 11:51		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 17:22	6/7/23 17:22		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-48H Dup

**Location Code:** WMWGREAP

**Collected:** 5/30/23 14:28

**Customer ID:**

**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10177

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 09:46	6/8/23 09:46		1	2.77	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 10:58	6/9/23 10:58		1	0.0835	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 11:01	6/7/23 11:01		1	24.9	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/30/23 14:25	5/30/23 14:25			96.83	uS/cm			FA
pH	5/30/23 14:25	5/30/23 14:25			5.45	SU			FA
Temperature	5/30/23 14:25	5/30/23 14:25			18.96	C			FA
Turbidity	5/30/23 14:25	5/30/23 14:25			1.94	NTU			FA
Sulfide	5/30/23 14:25	5/30/23 14:25			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 14:28

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-48H Dup

**Laboratory ID Number:** BD10177

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10177	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.104	0.107	0.105	0.0850 to 0.115	104	70.0 to 130	2.84	20.0
BD10185	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.148	0.149	0.106	0.0850 to 0.115	100	70.0 to 130	0.673	20.0
BD10177	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0936	0.0953	0.0907	0.0850 to 0.115	92.5	70.0 to 130	1.80	20.0
BD10185	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0907	0.0901	0.0921	0.0850 to 0.115	90.7	70.0 to 130	0.664	20.0
BD10177	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0995	0.103	0.103	0.0850 to 0.115	99.2	70.0 to 130	3.46	20.0
BD10185	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10177	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.126	0.128	0.104	0.0850 to 0.115	103	70.0 to 130	1.57	20.0
BD10185	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.277	0.277	0.102	0.0850 to 0.115	98.0	70.0 to 130	0.00	20.0
BD10177	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.102	0.102	0.104	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD10185	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.104	0.108	0.105	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BD10177	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.07	1.08	0.999	0.850 to 1.15	100	70.0 to 130	0.930	20.0
BD10185	Boron, Total	mg/L	0.000112	0.0650	1.00	1.02	1.02	0.998	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD10177	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0988	0.0996	0.0992	0.0850 to 0.115	98.7	70.0 to 130	0.806	20.0
BD10185	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.0978	0.0969	0.0999	0.0850 to 0.115	97.3	70.0 to 130	0.924	20.0
BD10177	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	14.7	14.5	4.78	4.25 to 5.75	96.8	70.0 to 130	1.37	20.0
BD10185	Calcium, Total	mg/L	0.000397	0.152	5.00	7.01	6.91	4.81	4.25 to 5.75	95.8	70.0 to 130	1.44	20.0
BD10181	Chloride	mg/L	-0.000416	1.00	10.0	22.3	22.4	10.1	9.00 to 11.0	90.0	80.0 to 120	0.447	20.0
BD10177	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0982	0.101	0.0995	0.0850 to 0.115	98.2	70.0 to 130	2.81	20.0
BD10185	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.0999	0.101	0.0850 to 0.115	99.4	70.0 to 130	0.100	20.0
BD10177	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0962	0.100	0.0970	0.0850 to 0.115	96.0	70.0 to 130	3.87	20.0
BD10185	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.0994	0.0988	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.605	20.0
BD10185	Fluoride	mg/L	0.0634	0.125	2.50	2.38	2.38	2.55	2.25 to 2.75	95.2	80.0 to 120	0.00	20.0
BD10177	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.204	0.203	0.201	0.170 to 0.230	102	70.0 to 130	0.491	20.0
BD10185	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 14:28

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-48H Dup

**Laboratory ID Number:** BD10177

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10177	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.102	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD10185	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.105	0.106	0.107	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD10177	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.259	0.255	0.205	0.170 to 0.230	104	70.0 to 130	1.56	20.0
BD10185	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.204	0.206	0.205	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BD10177	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	7.64	7.53	5.02	4.25 to 5.75	101	70.0 to 130	1.45	20.0
BD10185	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	6.47	6.42	4.98	4.25 to 5.75	99.4	70.0 to 130	0.776	20.0
BD10177	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.207	0.215	0.106	0.0850 to 0.115	105	70.0 to 130	3.79	20.0
BD10185	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.153	0.153	0.102	0.0850 to 0.115	99.9	70.0 to 130	0.00	20.0
BD10185	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00391	0.00391	0.00389	0.00340 to 0.00460	97.8	70.0 to 130	0.00	20.0
BD10177	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.205	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BD10185	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.205	0.205	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD10177	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	12.0	12.6	10.2	8.50 to 11.5	98.5	70.0 to 130	4.88	20.0
BD10185	Potassium, Total	mg/L	0.00141	0.367	10.0	11.8	11.7	10.6	8.50 to 11.5	102	70.0 to 130	0.851	20.0
BD10177	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.103	0.105	0.104	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BD10185	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.0975	0.0963	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.24	20.0
BD10177	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	4.77	4.76	1.02	0.850 to 1.15	107	70.0 to 130	0.210	20.0
BD10185	Silicon, Total	mg/L	0.000658	0.0440	1.00	4.67	4.65	1.02	0.850 to 1.15	104	70.0 to 130	0.429	20.0
BD10177	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	9.05	8.92	5.01	4.25 to 5.75	99.6	70.0 to 130	1.45	20.0
BD10185	Sodium, Total	mg/L	0.00301	0.0880	5.00	6.14	6.18	4.96	4.25 to 5.75	96.4	70.0 to 130	0.649	20.0
BD10185	Sulfate	mg/L	-0.0671	2.0	20.0	31.2	31.4	20.5	18.0 to 22.0	106	80.0 to 120	0.639	20.0
BD10177	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.108	0.107	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD10185	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD10184	Total Organic Carbon	mg/L	0.128	1.00	10.0	9.93	9.34	22.9		99.3	80.0 to 120	6.12	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 14:28

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-48H Dup

**Laboratory ID Number:** BD10177

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10173	Alkalinity	mg CaCO3/L					158	50.0	45.0 to 55.0			0.635	10.0
BD10185	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.77	0.737	1.86	1.80 to 2.20	103	90.0 to 110	2.75	15.0
BD10181	Solids, Dissolved	mg/L	2.00	25.0			568	55.0	40.0 to 60.0			0.530	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-21

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 15:36  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10178

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>			
* Boron, Total	6/2/23 11:34	6/6/23 16:51		1.015	0.402	mg/L	0.030000	0.1015	
* Calcium, Total	6/2/23 11:34	6/6/23 16:51		1.015	36.1	mg/L	0.070035	0.406	
* Iron, Total	6/2/23 11:34	6/6/23 16:51		1.015	0.0348	mg/L	0.008120	0.0406	J
* Lithium, Total	6/2/23 11:34	6/6/23 16:51		1.015	0.0683	mg/L	0.007105	0.01999956	
* Magnesium, Total	6/2/23 11:34	6/6/23 16:51		1.015	11.2	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 16:51		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 16:51		1	7.51	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 16:51		1.015	3.51	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/6/23 16:51		1.015	22.6	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>			
* Boron, Dissolved	6/1/23 12:45	6/6/23 13:53		1.015	0.393	mg/L	0.030000	0.1015	
* Calcium, Dissolved	6/1/23 12:45	6/6/23 13:53		1.015	35.5	mg/L	0.070035	0.406	
* Iron, Dissolved	6/1/23 12:45	6/6/23 13:53		1.015	0.0276	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	6/1/23 12:45	6/6/23 13:53		1.015	0.0675	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 13:53		1.015	11.2	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 13:53		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 13:53		1	7.43	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 13:53		1.015	3.47	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 13:53		1.015	22.4	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>			
* Antimony, Total	6/2/23 11:34	6/2/23 15:05		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	6/2/23 11:34	6/2/23 15:05		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	6/2/23 11:34	6/2/23 15:05		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	6/2/23 11:34	6/2/23 15:05		1.015	0.0604	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 15:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 15:05		1.015	0.000138	mg/L	0.000068	0.000203	J
* Chromium, Total	6/2/23 11:34	6/2/23 15:05		1.015	0.000232	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 15:05		1.015	0.00318	mg/L	0.000068	0.000203	
* Lead, Total	6/2/23 11:34	6/2/23 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 16:55		5.075	2.99	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-21

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 15:36  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10178

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 15:05		1.015	5.53	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 15:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 15:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 14:05		1.015	0.00109	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 14:05		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 14:05		1.015	0.000284	mg/L	0.000112	0.000203	
* Barium, Dissolved	6/1/23 12:45	6/1/23 14:05		1.015	0.0603	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 14:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 14:05		1.015	0.000182	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	6/1/23 12:45	6/1/23 14:05		1.015	0.000246	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 14:05		1.015	0.00294	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 14:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/2/23 09:51		5.075	2.77	mg/L	0.000761	0.005075	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 14:05		1.015	5.48	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 14:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 14:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 19:43		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 16:14	6/1/23 16:14		1	0.340	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/12/23 11:01	6/12/23 13:52		1	92.8	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:08	6/5/23 14:15		1	237	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	92.7	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 17:34	6/7/23 17:34		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-21

**Location Code:** WMWGREAP

**Collected:** 5/30/23 15:36

**Customer ID:**

**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10178

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 09:47	6/8/23 09:47		1	9.44	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 11:00	6/9/23 11:00		1	0.135	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 11:15	6/7/23 11:15		4	89.4	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/30/23 15:33	5/30/23 15:33			366.65	uS/cm			FA
pH	5/30/23 15:33	5/30/23 15:33			6.03	SU			FA
Temperature	5/30/23 15:33	5/30/23 15:33			21.31	C			FA
Turbidity	5/30/23 15:33	5/30/23 15:33			1.2	NTU			FA
Sulfide	5/30/23 15:33	5/30/23 15:33			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 5/30/23 15:36  
**Customer ID:**  
**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-21

**Laboratory ID Number:** BD10178

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10188	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.165	0.170	0.105	0.0850 to 0.115	102	70.0 to 130	2.99	20.0
BD10185	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.148	0.149	0.106	0.0850 to 0.115	100	70.0 to 130	0.673	20.0
BD10188	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0901	0.0930	0.0907	0.0850 to 0.115	90.1	70.0 to 130	3.17	20.0
BD10185	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0907	0.0901	0.0921	0.0850 to 0.115	90.7	70.0 to 130	0.664	20.0
BD10188	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0993	0.102	0.103	0.0850 to 0.115	99.1	70.0 to 130	2.68	20.0
BD10185	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10188	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.139	0.141	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD10185	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.277	0.277	0.102	0.0850 to 0.115	98.0	70.0 to 130	0.00	20.0
BD10188	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10185	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.104	0.108	0.105	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BD10188	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.00	1.01	0.999	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD10185	Boron, Total	mg/L	0.000112	0.0650	1.00	1.02	1.02	0.998	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD10188	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0970	0.0985	0.0992	0.0850 to 0.115	96.9	70.0 to 130	1.53	20.0
BD10185	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.0978	0.0969	0.0999	0.0850 to 0.115	97.3	70.0 to 130	0.924	20.0
BD10188	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	13.3	13.2	4.78	4.25 to 5.75	94.0	70.0 to 130	0.755	20.0
BD10185	Calcium, Total	mg/L	0.000397	0.152	5.00	7.01	6.91	4.81	4.25 to 5.75	95.8	70.0 to 130	1.44	20.0
BD10181	Chloride	mg/L	-0.000416	1.00	10.0	22.3	22.4	10.1	9.00 to 11.0	90.0	80.0 to 120	0.447	20.0
BD10188	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0967	0.102	0.0995	0.0850 to 0.115	96.4	70.0 to 130	5.33	20.0
BD10185	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.0999	0.101	0.0850 to 0.115	99.4	70.0 to 130	0.100	20.0
BD10188	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0964	0.0999	0.0970	0.0850 to 0.115	95.9	70.0 to 130	3.57	20.0
BD10185	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.0994	0.0988	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.605	20.0
BD10185	Fluoride	mg/L	0.0634	0.125	2.50	2.38	2.38	2.55	2.25 to 2.75	95.2	80.0 to 120	0.00	20.0
BD10188	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.199	0.201	0.201	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD10185	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 15:36

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-21

**Laboratory ID Number:** BD10178

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10188	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD10185	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.105	0.106	0.107	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD10188	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.205	0.208	0.205	0.170 to 0.230	102	70.0 to 130	1.45	20.0
BD10185	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.204	0.206	0.205	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BD10188	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	6.11	6.13	5.02	4.25 to 5.75	98.8	70.0 to 130	0.327	20.0
BD10185	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	6.47	6.42	4.98	4.25 to 5.75	99.4	70.0 to 130	0.776	20.0
BD10188	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.159	0.165	0.106	0.0850 to 0.115	102	70.0 to 130	3.70	20.0
BD10185	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.153	0.153	0.102	0.0850 to 0.115	99.9	70.0 to 130	0.00	20.0
BD10185	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00391	0.00391	0.00389	0.00340 to 0.00460	97.8	70.0 to 130	0.00	20.0
BD10188	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.203	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10185	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.205	0.205	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD10188	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	10.6	10.9	10.2	8.50 to 11.5	101	70.0 to 130	2.79	20.0
BD10185	Potassium, Total	mg/L	0.00141	0.367	10.0	11.8	11.7	10.6	8.50 to 11.5	102	70.0 to 130	0.851	20.0
BD10188	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BD10185	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.0975	0.0963	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.24	20.0
BD10188	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	6.21	6.23	1.02	0.850 to 1.15	105	70.0 to 130	0.322	20.0
BD10185	Silicon, Total	mg/L	0.000658	0.0440	1.00	4.67	4.65	1.02	0.850 to 1.15	104	70.0 to 130	0.429	20.0
BD10188	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	8.88	9.00	5.01	4.25 to 5.75	95.0	70.0 to 130	1.34	20.0
BD10185	Sodium, Total	mg/L	0.00301	0.0880	5.00	6.14	6.18	4.96	4.25 to 5.75	96.4	70.0 to 130	0.649	20.0
BD10185	Sulfate	mg/L	-0.0671	2.0	20.0	31.2	31.4	20.5	18.0 to 22.0	106	80.0 to 120	0.639	20.0
BD10188	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.107	0.107	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD10185	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD10184	Total Organic Carbon	mg/L	0.128	1.00	10.0	9.93	9.34	22.9		99.3	80.0 to 120	6.12	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 15:36

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-21

**Laboratory ID Number:** BD10178

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10179	Alkalinity	mg CaCO3/L					119	51.0	45.0 to 55.0			1.67	10.0
BD10185	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.77	0.737	1.86	1.80 to 2.20	103	90.0 to 110	2.75	15.0
BD10181	Solids, Dissolved	mg/L	2.00	25.0			568	55.0	40.0 to 60.0			0.530	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-12

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 16:20  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10179

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 16:54		1.015	0.306	mg/L	0.030000	0.1015	
* Calcium, Total	6/2/23 11:34	6/8/23 13:38		10.15	54.5	mg/L	0.70035	4.06	
* Iron, Total	6/2/23 11:34	6/6/23 16:54		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/2/23 11:34	6/6/23 16:54		1.015	0.116	mg/L	0.007105	0.01999956	
* Magnesium, Total	6/2/23 11:34	6/6/23 16:54		1.015	14.3	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 16:54		1.015	0.0580	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 16:54		1	5.61	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 16:54		1.015	2.62	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/6/23 16:54		1.015	20.8	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	6/1/23 12:45	6/6/23 13:57		1.015	0.307	mg/L	0.030000	0.1015	
* Calcium, Dissolved	6/1/23 12:45	6/6/23 15:25		10.15	60.3	mg/L	0.70035	4.06	
* Iron, Dissolved	6/1/23 12:45	6/6/23 13:57		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	6/1/23 12:45	6/6/23 13:57		1.015	0.119	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 13:57		1.015	14.2	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 13:57		1.015	0.0558	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 13:57		1	5.61	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 13:57		1.015	2.62	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 13:57		1.015	21.1	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 15:08		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	6/2/23 11:34	6/2/23 15:08		1.015	0.000290	mg/L	0.000112	0.000203	
* Aluminum, Total	6/2/23 11:34	6/2/23 15:08		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	6/2/23 11:34	6/2/23 15:08		1.015	0.0309	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 15:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 15:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/2/23 11:34	6/2/23 15:08		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	6/2/23 11:34	6/2/23 15:08		1.015	0.000536	mg/L	0.000068	0.000203	
* Lead, Total	6/2/23 11:34	6/2/23 15:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 15:08		1.015	1.07	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-12

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 16:20  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10179

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 15:08		1.015	6.24	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 15:08		1.015	0.00122	mg/L	0.000508	0.001015	
* Thallium, Total	6/2/23 11:34	6/2/23 15:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 14:09		1.015	0.00137	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 14:09		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 14:09		1.015	0.000446	mg/L	0.000112	0.000203	
* Barium, Dissolved	6/1/23 12:45	6/1/23 14:09		1.015	0.0299	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 14:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 14:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	6/1/23 12:45	6/1/23 14:09		1.015	0.000220	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 14:09		1.015	0.000508	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 14:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/1/23 14:09		1.015	0.991	mg/L	0.000152	0.001015	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 14:09		1.015	6.30	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 14:09		1.015	0.00148	mg/L	0.000508	0.001015	
* Thallium, Dissolved	6/1/23 12:45	6/1/23 14:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 19:46		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 16:16	6/1/23 16:16		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/12/23 11:01	6/12/23 13:52		1	121	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:08	6/5/23 14:15		1	279	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	121	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 17:46	6/7/23 17:46		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-12

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 16:20  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10179

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 09:48	6/8/23 09:48		1	11.7	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 11:01	6/9/23 11:01		1	0.180	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 11:16	6/7/23 11:16		4	106	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/30/23 16:17	5/30/23 16:17			434.15	uS/cm			FA
pH	5/30/23 16:17	5/30/23 16:17			6.87	SU			FA
Temperature	5/30/23 16:17	5/30/23 16:17			20.91	C			FA
Turbidity	5/30/23 16:17	5/30/23 16:17			1.85	NTU			FA
Sulfide	5/30/23 16:17	5/30/23 16:17			0	mg/L			FA

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 16:20

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-12

**Laboratory ID Number:** BD10179

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10188	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.165	0.170	0.105	0.0850 to 0.115	102	70.0 to 130	2.99	20.0
BD10185	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.148	0.149	0.106	0.0850 to 0.115	100	70.0 to 130	0.673	20.0
BD10188	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0901	0.0930	0.0907	0.0850 to 0.115	90.1	70.0 to 130	3.17	20.0
BD10185	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0907	0.0901	0.0921	0.0850 to 0.115	90.7	70.0 to 130	0.664	20.0
BD10188	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0993	0.102	0.103	0.0850 to 0.115	99.1	70.0 to 130	2.68	20.0
BD10185	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10188	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.139	0.141	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD10185	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.277	0.277	0.102	0.0850 to 0.115	98.0	70.0 to 130	0.00	20.0
BD10188	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10185	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.104	0.108	0.105	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BD10188	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.00	1.01	0.999	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD10185	Boron, Total	mg/L	0.000112	0.0650	1.00	1.02	1.02	0.998	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD10188	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0970	0.0985	0.0992	0.0850 to 0.115	96.9	70.0 to 130	1.53	20.0
BD10185	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.0978	0.0969	0.0999	0.0850 to 0.115	97.3	70.0 to 130	0.924	20.0
BD10188	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	13.3	13.2	4.78	4.25 to 5.75	94.0	70.0 to 130	0.755	20.0
BD10185	Calcium, Total	mg/L	0.000397	0.152	5.00	7.01	6.91	4.81	4.25 to 5.75	95.8	70.0 to 130	1.44	20.0
BD10181	Chloride	mg/L	-0.000416	1.00	10.0	22.3	22.4	10.1	9.00 to 11.0	90.0	80.0 to 120	0.447	20.0
BD10188	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0967	0.102	0.0995	0.0850 to 0.115	96.4	70.0 to 130	5.33	20.0
BD10185	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.0999	0.101	0.0850 to 0.115	99.4	70.0 to 130	0.100	20.0
BD10188	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0964	0.0999	0.0970	0.0850 to 0.115	95.9	70.0 to 130	3.57	20.0
BD10185	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.0994	0.0988	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.605	20.0
BD10185	Fluoride	mg/L	0.0634	0.125	2.50	2.38	2.38	2.55	2.25 to 2.75	95.2	80.0 to 120	0.00	20.0
BD10188	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.199	0.201	0.201	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD10185	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 16:20

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-12

**Laboratory ID Number:** BD10179

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10188	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD10185	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.105	0.106	0.107	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD10188	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.205	0.208	0.205	0.170 to 0.230	102	70.0 to 130	1.45	20.0
BD10185	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.204	0.206	0.205	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BD10188	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	6.11	6.13	5.02	4.25 to 5.75	98.8	70.0 to 130	0.327	20.0
BD10185	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	6.47	6.42	4.98	4.25 to 5.75	99.4	70.0 to 130	0.776	20.0
BD10188	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.159	0.165	0.106	0.0850 to 0.115	102	70.0 to 130	3.70	20.0
BD10185	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.153	0.153	0.102	0.0850 to 0.115	99.9	70.0 to 130	0.00	20.0
BD10185	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00391	0.00391	0.00389	0.00340 to 0.00460	97.8	70.0 to 130	0.00	20.0
BD10188	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.203	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10185	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.205	0.205	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD10188	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	10.6	10.9	10.2	8.50 to 11.5	101	70.0 to 130	2.79	20.0
BD10185	Potassium, Total	mg/L	0.00141	0.367	10.0	11.8	11.7	10.6	8.50 to 11.5	102	70.0 to 130	0.851	20.0
BD10188	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BD10185	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.0975	0.0963	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.24	20.0
BD10188	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	6.21	6.23	1.02	0.850 to 1.15	105	70.0 to 130	0.322	20.0
BD10185	Silicon, Total	mg/L	0.000658	0.0440	1.00	4.67	4.65	1.02	0.850 to 1.15	104	70.0 to 130	0.429	20.0
BD10188	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	8.88	9.00	5.01	4.25 to 5.75	95.0	70.0 to 130	1.34	20.0
BD10185	Sodium, Total	mg/L	0.00301	0.0880	5.00	6.14	6.18	4.96	4.25 to 5.75	96.4	70.0 to 130	0.649	20.0
BD10185	Sulfate	mg/L	-0.0671	2.0	20.0	31.2	31.4	20.5	18.0 to 22.0	106	80.0 to 120	0.639	20.0
BD10188	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.107	0.107	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD10185	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD10184	Total Organic Carbon	mg/L	0.128	1.00	10.0	9.93	9.34	22.9		99.3	80.0 to 120	6.12	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 16:20

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-12

**Laboratory ID Number:** BD10179

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10179	Alkalinity	mg CaCO3/L					119	51.0	45.0 to 55.0			1.67	10.0
BD10185	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.77	0.737	1.86	1.80 to 2.20	103	90.0 to 110	2.75	15.0
BD10181	Solids, Dissolved	mg/L	2.00	25.0			568	55.0	40.0 to 60.0			0.530	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-13

**Location Code:** WMWGREAP  
**Collected:** 5/31/23 08:44  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10180

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 16:57		1.015	0.263	mg/L	0.030000	0.1015	
* Calcium, Total	6/2/23 11:34	6/8/23 13:41		10.15	65.1	mg/L	0.70035	4.06	
* Iron, Total	6/2/23 11:34	6/6/23 16:57		1.015	3.84	mg/L	0.008120	0.0406	
* Lithium, Total	6/2/23 11:34	6/6/23 16:57		1.015	0.371	mg/L	0.007105	0.01999956	
* Magnesium, Total	6/2/23 11:34	6/6/23 16:57		1.015	14.6	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 16:57		1.015	0.0119	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 16:57		1	7.02	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 16:57		1.015	3.28	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/6/23 16:57		1.015	9.78	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	6/1/23 12:45	6/6/23 14:00		1.015	0.261	mg/L	0.030000	0.1015	
* Calcium, Dissolved	6/1/23 12:45	6/6/23 15:28		10.15	68.5	mg/L	0.70035	4.06	
* Iron, Dissolved	6/1/23 12:45	6/6/23 14:00		1.015	3.82	mg/L	0.008120	0.0406	
* Lithium, Dissolved	6/1/23 12:45	6/6/23 14:00		1.015	0.380	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 14:00		1.015	14.8	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 14:00		1.015	0.0118	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 14:00		1	7.04	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 14:00		1.015	3.29	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 14:00		1.015	10.0	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 15:12		1.015	0.00192	mg/L	0.000710	0.001015	
* Aluminum, Total	6/2/23 11:34	6/2/23 15:12		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	6/2/23 11:34	6/2/23 15:12		1.015	0.00639	mg/L	0.000112	0.000203	
* Barium, Total	6/2/23 11:34	6/2/23 15:12		1.015	0.0536	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 15:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 15:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/2/23 11:34	6/2/23 15:12		1.015	0.000232	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 15:12		1.015	0.00348	mg/L	0.000068	0.000203	
* Lead, Total	6/2/23 11:34	6/2/23 15:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 15:12		1.015	0.761	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-13

**Location Code:** WMWGREAP

**Collected:** 5/31/23 08:44

**Customer ID:**

**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10180

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 15:12		1.015	6.44	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 15:12		1.015	0.0195	mg/L	0.000508	0.001015	
* Thallium, Total	6/2/23 11:34	6/2/23 15:12		1.015	0.000342	mg/L	0.000068	0.000203	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 14:13		1.015	0.00233	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 14:13		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 14:13		1.015	0.00643	mg/L	0.000112	0.000203	
* Barium, Dissolved	6/1/23 12:45	6/1/23 14:13		1.015	0.0537	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 14:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 14:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	6/1/23 12:45	6/1/23 14:13		1.015	0.000227	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 14:13		1.015	0.00335	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 14:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/1/23 14:13		1.015	0.772	mg/L	0.000152	0.001015	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 14:13		1.015	6.13	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 14:13		1.015	0.0212	mg/L	0.000508	0.001015	
* Thallium, Dissolved	6/1/23 12:45	6/1/23 14:13		1.015	0.000390	mg/L	0.000068	0.000203	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 19:50		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 16:18	6/1/23 16:18		1	0.775	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/13/23 10:24	6/13/23 11:15		1	88.4	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:08	6/5/23 14:15		1	333	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/13/23 10:24	6/13/23 11:15		1	88.3	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/13/23 10:24	6/13/23 11:15		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 18:02	6/7/23 18:02		1	1.84	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-13

**Location Code:** WMWGREAP

**Collected:** 5/31/23 08:44

**Customer ID:**

**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10180

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 09:50	6/8/23 09:50		1	4.19	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 11:02	6/9/23 11:02		1	0.102	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 11:17	6/7/23 11:17		8	162	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/31/23 08:41	5/31/23 08:41			469.55	uS/cm			FA
pH	5/31/23 08:41	5/31/23 08:41			6.37	SU			FA
Temperature	5/31/23 08:41	5/31/23 08:41			20.08	C			FA
Turbidity	5/31/23 08:41	5/31/23 08:41			4.1	NTU			FA
Sulfide	5/31/23 08:41	5/31/23 08:41			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/31/23 08:44

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-13

**Laboratory ID Number:** BD10180

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10188	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.165	0.170	0.105	0.0850 to 0.115	102	70.0 to 130	2.99	20.0
BD10185	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.148	0.149	0.106	0.0850 to 0.115	100	70.0 to 130	0.673	20.0
BD10188	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0901	0.0930	0.0907	0.0850 to 0.115	90.1	70.0 to 130	3.17	20.0
BD10185	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0907	0.0901	0.0921	0.0850 to 0.115	90.7	70.0 to 130	0.664	20.0
BD10188	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0993	0.102	0.103	0.0850 to 0.115	99.1	70.0 to 130	2.68	20.0
BD10185	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10188	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.139	0.141	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD10185	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.277	0.277	0.102	0.0850 to 0.115	98.0	70.0 to 130	0.00	20.0
BD10188	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10185	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.104	0.108	0.105	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BD10188	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.00	1.01	0.999	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD10185	Boron, Total	mg/L	0.000112	0.0650	1.00	1.02	1.02	0.998	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD10188	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0970	0.0985	0.0992	0.0850 to 0.115	96.9	70.0 to 130	1.53	20.0
BD10185	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.0978	0.0969	0.0999	0.0850 to 0.115	97.3	70.0 to 130	0.924	20.0
BD10188	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	13.3	13.2	4.78	4.25 to 5.75	94.0	70.0 to 130	0.755	20.0
BD10185	Calcium, Total	mg/L	0.000397	0.152	5.00	7.01	6.91	4.81	4.25 to 5.75	95.8	70.0 to 130	1.44	20.0
BD10181	Chloride	mg/L	-0.000416	1.00	10.0	22.3	22.4	10.1	9.00 to 11.0	90.0	80.0 to 120	0.447	20.0
BD10188	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0967	0.102	0.0995	0.0850 to 0.115	96.4	70.0 to 130	5.33	20.0
BD10185	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.0999	0.101	0.0850 to 0.115	99.4	70.0 to 130	0.100	20.0
BD10188	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0964	0.0999	0.0970	0.0850 to 0.115	95.9	70.0 to 130	3.57	20.0
BD10185	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.0994	0.0988	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.605	20.0
BD10185	Fluoride	mg/L	0.0634	0.125	2.50	2.38	2.38	2.55	2.25 to 2.75	95.2	80.0 to 120	0.00	20.0
BD10188	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.199	0.201	0.201	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD10185	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/31/23 08:44

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-13

**Laboratory ID Number:** BD10180

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10188	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD10185	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.105	0.106	0.107	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD10188	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.205	0.208	0.205	0.170 to 0.230	102	70.0 to 130	1.45	20.0
BD10185	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.204	0.206	0.205	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BD10188	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	6.11	6.13	5.02	4.25 to 5.75	98.8	70.0 to 130	0.327	20.0
BD10185	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	6.47	6.42	4.98	4.25 to 5.75	99.4	70.0 to 130	0.776	20.0
BD10188	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.159	0.165	0.106	0.0850 to 0.115	102	70.0 to 130	3.70	20.0
BD10185	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.153	0.153	0.102	0.0850 to 0.115	99.9	70.0 to 130	0.00	20.0
BD10185	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00391	0.00391	0.00389	0.00340 to 0.00460	97.8	70.0 to 130	0.00	20.0
BD10188	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.203	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10185	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.205	0.205	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD10188	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	10.6	10.9	10.2	8.50 to 11.5	101	70.0 to 130	2.79	20.0
BD10185	Potassium, Total	mg/L	0.00141	0.367	10.0	11.8	11.7	10.6	8.50 to 11.5	102	70.0 to 130	0.851	20.0
BD10188	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BD10185	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.0975	0.0963	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.24	20.0
BD10188	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	6.21	6.23	1.02	0.850 to 1.15	105	70.0 to 130	0.322	20.0
BD10185	Silicon, Total	mg/L	0.000658	0.0440	1.00	4.67	4.65	1.02	0.850 to 1.15	104	70.0 to 130	0.429	20.0
BD10188	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	8.88	9.00	5.01	4.25 to 5.75	95.0	70.0 to 130	1.34	20.0
BD10185	Sodium, Total	mg/L	0.00301	0.0880	5.00	6.14	6.18	4.96	4.25 to 5.75	96.4	70.0 to 130	0.649	20.0
BD10185	Sulfate	mg/L	-0.0671	2.0	20.0	31.2	31.4	20.5	18.0 to 22.0	106	80.0 to 120	0.639	20.0
BD10188	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.107	0.107	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD10185	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD10184	Total Organic Carbon	mg/L	0.128	1.00	10.0	9.93	9.34	22.9		99.3	80.0 to 120	6.12	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/31/23 08:44

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-13

**Laboratory ID Number:** BD10180

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10192	Alkalinity	mg CaCO3/L					48.1	50.2	45.0 to 55.0			1.03	10.0
BD10185	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.77	0.737	1.86	1.80 to 2.20	103	90.0 to 110	2.75	15.0
BD10181	Solids, Dissolved	mg/L	2.00	25.0			568	55.0	40.0 to 60.0			0.530	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-41H

**Location Code:** WMWGREAP  
**Collected:** 5/31/23 09:55  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10181

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 17:01		1.015	0.560	mg/L	0.030000	0.1015	
* Calcium, Total	6/2/23 11:34	6/8/23 13:44		10.15	127	mg/L	0.70035	4.06	
* Iron, Total	6/2/23 11:34	6/8/23 13:44		10.15	12.5	mg/L	0.08120	0.406	
* Lithium, Total	6/2/23 11:34	6/6/23 17:01		1.015	0.0792	mg/L	0.007105	0.01999956	
* Magnesium, Total	6/2/23 11:34	6/6/23 17:01		1.015	15.1	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 17:01		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 17:01		1	8.90	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 17:01		1.015	4.16	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/6/23 17:01		1.015	28.3	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	6/1/23 12:45	6/6/23 14:03		1.015	0.558	mg/L	0.030000	0.1015	
* Calcium, Dissolved	6/1/23 12:45	6/6/23 15:32		10.15	132	mg/L	0.70035	4.06	
* Iron, Dissolved	6/1/23 12:45	6/6/23 15:32		10.15	12.0	mg/L	0.08120	0.406	
* Lithium, Dissolved	6/1/23 12:45	6/6/23 14:03		1.015	0.0881	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 14:03		1.015	15.6	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 14:03		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 14:03		1	8.88	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 14:03		1.015	4.15	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 14:03		1.015	28.9	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 15:15		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	6/2/23 11:34	6/2/23 15:15		1.015	0.0339	mg/L	0.009135	0.05075	J
* Arsenic, Total	6/2/23 11:34	6/2/23 15:15		1.015	0.00185	mg/L	0.000112	0.000203	
* Barium, Total	6/2/23 11:34	6/2/23 15:15		1.015	0.124	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 15:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 15:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/2/23 11:34	6/2/23 15:15		1.015	0.000386	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 15:15		1.015	0.0180	mg/L	0.000068	0.000203	
* Lead, Total	6/2/23 11:34	6/2/23 15:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 16:59		5.075	4.37	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-41H

**Location Code:** WMWGREAP

**Collected:** 5/31/23 09:55

**Customer ID:**

**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10181

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 15:15		1.015	6.28	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 15:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 15:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 14:16		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 14:16		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 14:16		1.015	0.00174	mg/L	0.000112	0.000203	
* Barium, Dissolved	6/1/23 12:45	6/1/23 14:16		1.015	0.125	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 14:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 14:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	6/1/23 12:45	6/1/23 14:16		1.015	0.000282	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 14:16		1.015	0.0183	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 14:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/2/23 09:55		5.075	4.12	mg/L	0.000761	0.005075	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 14:16		1.015	6.35	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 14:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 14:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 19:54		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 16:20	6/1/23 16:20		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/13/23 10:24	6/13/23 11:15		1	113	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:08	6/5/23 14:15		1	565	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/13/23 10:24	6/13/23 11:15		1	113	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	6/13/23 10:24	6/13/23 11:15		1	Not Detected	mg CaCO3/L		0.5	A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 18:20	6/7/23 18:20		1	1.36	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-41H

**Location Code:** WMWGREAP  
**Collected:** 5/31/23 09:55  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10181

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 09:51	6/8/23 09:51		1	13.3	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 11:03	6/9/23 11:03		1	0.0663	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 11:18	6/7/23 11:18		16	292	mg/L	9.6	32	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/31/23 09:51	5/31/23 09:51			740.97	uS/cm			FA
pH	5/31/23 09:51	5/31/23 09:51			6.19	SU			FA
Temperature	5/31/23 09:51	5/31/23 09:51			19.55	C			FA
Turbidity	5/31/23 09:51	5/31/23 09:51			9.08	NTU			FA
Sulfide	5/31/23 09:51	5/31/23 09:51			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/31/23 09:55

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-41H

**Laboratory ID Number:** BD10181

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10188	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.165	0.170	0.105	0.0850 to 0.115	102	70.0 to 130	2.99	20.0
BD10185	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.148	0.149	0.106	0.0850 to 0.115	100	70.0 to 130	0.673	20.0
BD10188	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0901	0.0930	0.0907	0.0850 to 0.115	90.1	70.0 to 130	3.17	20.0
BD10185	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0907	0.0901	0.0921	0.0850 to 0.115	90.7	70.0 to 130	0.664	20.0
BD10188	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0993	0.102	0.103	0.0850 to 0.115	99.1	70.0 to 130	2.68	20.0
BD10185	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10188	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.139	0.141	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD10185	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.277	0.277	0.102	0.0850 to 0.115	98.0	70.0 to 130	0.00	20.0
BD10188	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10185	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.104	0.108	0.105	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BD10188	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.00	1.01	0.999	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD10185	Boron, Total	mg/L	0.000112	0.0650	1.00	1.02	1.02	0.998	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD10188	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0970	0.0985	0.0992	0.0850 to 0.115	96.9	70.0 to 130	1.53	20.0
BD10185	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.0978	0.0969	0.0999	0.0850 to 0.115	97.3	70.0 to 130	0.924	20.0
BD10188	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	13.3	13.2	4.78	4.25 to 5.75	94.0	70.0 to 130	0.755	20.0
BD10185	Calcium, Total	mg/L	0.000397	0.152	5.00	7.01	6.91	4.81	4.25 to 5.75	95.8	70.0 to 130	1.44	20.0
BD10181	Chloride	mg/L	-0.000416	1.00	10.0	22.3	22.4	10.1	9.00 to 11.0	90.0	80.0 to 120	0.447	20.0
BD10188	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0967	0.102	0.0995	0.0850 to 0.115	96.4	70.0 to 130	5.33	20.0
BD10185	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.0999	0.101	0.0850 to 0.115	99.4	70.0 to 130	0.100	20.0
BD10188	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0964	0.0999	0.0970	0.0850 to 0.115	95.9	70.0 to 130	3.57	20.0
BD10185	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.0994	0.0988	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.605	20.0
BD10185	Fluoride	mg/L	0.0634	0.125	2.50	2.38	2.38	2.55	2.25 to 2.75	95.2	80.0 to 120	0.00	20.0
BD10188	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.199	0.201	0.201	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD10185	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/31/23 09:55

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-41H

**Laboratory ID Number:** BD10181

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10188	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD10185	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.105	0.106	0.107	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD10188	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.205	0.208	0.205	0.170 to 0.230	102	70.0 to 130	1.45	20.0
BD10185	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.204	0.206	0.205	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BD10188	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	6.11	6.13	5.02	4.25 to 5.75	98.8	70.0 to 130	0.327	20.0
BD10185	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	6.47	6.42	4.98	4.25 to 5.75	99.4	70.0 to 130	0.776	20.0
BD10188	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.159	0.165	0.106	0.0850 to 0.115	102	70.0 to 130	3.70	20.0
BD10185	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.153	0.153	0.102	0.0850 to 0.115	99.9	70.0 to 130	0.00	20.0
BD10185	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00391	0.00391	0.00389	0.00340 to 0.00460	97.8	70.0 to 130	0.00	20.0
BD10188	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.203	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10185	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.205	0.205	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD10188	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	10.6	10.9	10.2	8.50 to 11.5	101	70.0 to 130	2.79	20.0
BD10185	Potassium, Total	mg/L	0.00141	0.367	10.0	11.8	11.7	10.6	8.50 to 11.5	102	70.0 to 130	0.851	20.0
BD10188	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BD10185	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.0975	0.0963	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.24	20.0
BD10188	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	6.21	6.23	1.02	0.850 to 1.15	105	70.0 to 130	0.322	20.0
BD10185	Silicon, Total	mg/L	0.000658	0.0440	1.00	4.67	4.65	1.02	0.850 to 1.15	104	70.0 to 130	0.429	20.0
BD10188	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	8.88	9.00	5.01	4.25 to 5.75	95.0	70.0 to 130	1.34	20.0
BD10185	Sodium, Total	mg/L	0.00301	0.0880	5.00	6.14	6.18	4.96	4.25 to 5.75	96.4	70.0 to 130	0.649	20.0
BD10185	Sulfate	mg/L	-0.0671	2.0	20.0	31.2	31.4	20.5	18.0 to 22.0	106	80.0 to 120	0.639	20.0
BD10188	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.107	0.107	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD10185	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD10184	Total Organic Carbon	mg/L	0.128	1.00	10.0	9.93	9.34	22.9		99.3	80.0 to 120	6.12	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/31/23 09:55

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond - MW-41H

**Laboratory ID Number:** BD10181

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10192	Alkalinity	mg CaCO3/L					48.1	50.2	45.0 to 55.0			1.03	10.0
BD10185	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.77	0.737	1.86	1.80 to 2.20	103	90.0 to 110	2.75	15.0
BD10181	Solids, Dissolved	mg/L	2.00	25.0			568	55.0	40.0 to 60.0			0.530	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond Equipment Blank-1

**Location Code:** WMWGREAPEB  
**Collected:** 5/31/23 10:45  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10182

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 17:04		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/2/23 11:34	6/6/23 17:04		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	6/2/23 11:34	6/6/23 17:04		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/2/23 11:34	6/6/23 17:04		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/2/23 11:34	6/6/23 17:04		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	6/2/23 11:34	6/6/23 17:04		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 17:04		1	Not Detected	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 17:04		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	6/2/23 11:34	6/6/23 17:04		1.015	Not Detected	mg/L	0.04060	0.406	U
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 15:19		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	6/2/23 11:34	6/2/23 15:19		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	6/2/23 11:34	6/2/23 15:19		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	6/2/23 11:34	6/2/23 15:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	6/2/23 11:34	6/2/23 15:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/2/23 11:34	6/2/23 15:19		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	6/2/23 11:34	6/2/23 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	6/2/23 11:34	6/2/23 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 15:19		1.015	0.000187	mg/L	0.000152	0.001015	J
* Potassium, Total	6/2/23 11:34	6/2/23 15:19		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	6/2/23 11:34	6/2/23 15:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 15:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>			<b>Analyst: ELH</b>						
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 19:58		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>			<b>Analyst: SC</b>						
* Nitrogen, Nitrate/Nitrite	6/1/23 16:22	6/1/23 16:22		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2540C</b>			<b>Analyst: CNJ</b>						
* Solids, Dissolved	6/2/23 10:50	6/5/23 14:00		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**



# Certificate Of Analysis

**Description:** Greene County Ash Pond Equipment Blank-1

**Location Code:** WMWGREAPEB  
**Collected:** 5/31/23 10:45  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:31

**Laboratory ID Number:** BD10182

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 18:34	6/7/23 18:34		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 10:05	6/8/23 10:05		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 11:04	6/9/23 11:04		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 11:10	6/7/23 11:10		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPEB

**Sample Date:** 5/31/23 10:45

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD10182

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			
BD10185	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.148	0.149	0.106	0.0850 to 0.115	100	70.0 to 130	0.673	20.0
BD10185	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0907	0.0901	0.0921	0.0850 to 0.115	90.7	70.0 to 130	0.664	20.0
BD10185	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10185	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.277	0.277	0.102	0.0850 to 0.115	98.0	70.0 to 130	0.00	20.0
BD10185	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.104	0.108	0.105	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BD10185	Boron, Total	mg/L	0.000112	0.0650	1.00	1.02	1.02	0.998	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD10185	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.0978	0.0969	0.0999	0.0850 to 0.115	97.3	70.0 to 130	0.924	20.0
BD10185	Calcium, Total	mg/L	0.000397	0.152	5.00	7.01	6.91	4.81	4.25 to 5.75	95.8	70.0 to 130	1.44	20.0
BD10191	Chloride	mg/L	0.015	1.00	10.0	10.1	10.1	10.1	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BD10185	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.0999	0.101	0.0850 to 0.115	99.4	70.0 to 130	0.100	20.0
BD10185	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.0994	0.0988	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.605	20.0
BD10185	Fluoride	mg/L	0.0634	0.125	2.50	2.38	2.38	2.55	2.25 to 2.75	95.2	80.0 to 120	0.00	20.0
BD10185	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD10185	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.105	0.106	0.107	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD10185	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.204	0.206	0.205	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BD10185	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	6.47	6.42	4.98	4.25 to 5.75	99.4	70.0 to 130	0.776	20.0
BD10185	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.153	0.153	0.102	0.0850 to 0.115	99.9	70.0 to 130	0.00	20.0
BD10185	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00391	0.00391	0.00389	0.00340 to 0.00460	97.8	70.0 to 130	0.00	20.0
BD10185	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.205	0.205	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD10185	Potassium, Total	mg/L	0.00141	0.367	10.0	11.8	11.7	10.6	8.50 to 11.5	102	70.0 to 130	0.851	20.0
BD10185	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.0975	0.0963	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.24	20.0
BD10185	Silicon, Total	mg/L	0.000658	0.0440	1.00	4.67	4.65	1.02	0.850 to 1.15	104	70.0 to 130	0.429	20.0
BD10185	Sodium, Total	mg/L	0.00301	0.0880	5.00	6.14	6.18	4.96	4.25 to 5.75	96.4	70.0 to 130	0.649	20.0
BD10185	Sulfate	mg/L	-0.0671	2.0	20.0	31.2	31.4	20.5	18.0 to 22.0	106	80.0 to 120	0.639	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPEB

**Sample Date:** 5/31/23 10:45

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD10182

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Limit			Limit	Prec	Limit			
BD10185	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115		107	70.0 to 130		2.84	20.0
BD10184	Total Organic Carbon	mg/L	0.128	1.00	10.0	9.93	9.34	22.9			99.3	80.0 to 120		6.12	20.0

**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPEB

**Sample Date:** 5/31/23 10:45

**Customer ID:**

**Delivery Date:** 6/1/23 09:31

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD10182

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10185	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.77	0.737	1.86	1.80 to 2.20	103	90.0 to 110	2.75	15.0
BD10190	Solids, Dissolved	mg/L	1.00	25.0			466	55.0	40.0 to 60.0			0.215	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-30

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 12:05  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10183

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 17:07		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/2/23 11:34	6/6/23 17:07		1.015	0.503	mg/L	0.070035	0.406	
* Iron, Total	6/2/23 11:34	6/6/23 17:07		1.015	0.0101	mg/L	0.008120	0.0406	J
* Lithium, Total	6/2/23 11:34	6/6/23 17:07		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/2/23 11:34	6/6/23 17:07		1.015	0.148	mg/L	0.021315	0.406	J
* Molybdenum, Total	6/2/23 11:34	6/6/23 17:07		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 17:07		1	10.1	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 17:07		1.015	4.74	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/6/23 17:07		1.015	4.81	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	6/1/23 12:45	6/6/23 14:06		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	6/1/23 12:45	6/6/23 14:06		1.015	0.519	mg/L	0.070035	0.406	
* Iron, Dissolved	6/1/23 12:45	6/6/23 14:06		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	6/1/23 12:45	6/6/23 14:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 14:06		1.015	0.134	mg/L	0.021315	0.406	J
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 14:06		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 14:06		1	10.1	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 14:06		1.015	4.74	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 14:06		1.015	4.85	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 15:23		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	6/2/23 11:34	6/2/23 15:23		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	6/2/23 11:34	6/2/23 15:23		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	6/2/23 11:34	6/2/23 15:23		1.015	0.0256	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 15:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 15:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/2/23 11:34	6/2/23 15:23		1.015	0.000347	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 15:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	6/2/23 11:34	6/2/23 15:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 15:23		1.015	0.00329	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-30

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 12:05  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10183

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 15:23		1.015	0.617	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 15:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 15:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 14:20		1.015	0.000825	mg/L	0.000710	0.001015	J
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 14:20		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 14:20		1.015	0.000160	mg/L	0.000112	0.000203	J
* Barium, Dissolved	6/1/23 12:45	6/1/23 14:20		1.015	0.0250	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 14:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 14:20		1.015	0.0000753	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	6/1/23 12:45	6/1/23 14:20		1.015	0.000370	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 14:20		1.015	0.0000815	mg/L	0.000068	0.000203	J
* Lead, Dissolved	6/1/23 12:45	6/1/23 14:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/1/23 14:20		1.015	0.00380	mg/L	0.000152	0.001015	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 14:20		1.015	0.609	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 14:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 14:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 20:02		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 16:23	6/1/23 16:23		1	0.964	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/9/23 09:47	6/9/23 11:51		1	4.22	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:50	6/5/23 14:00		1	28.7	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/9/23 09:47	6/9/23 11:51		1	4.22	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/9/23 09:47	6/9/23 11:51		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 18:46	6/7/23 18:46		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-30

**Location Code:** WMWGREAP

**Collected:** 5/30/23 12:05

**Customer ID:**

**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10183

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 10:06	6/8/23 10:06		1	3.16	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 11:06	6/9/23 11:06		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 11:07	6/7/23 11:07		1	1.44	mg/L	0.6	2	J
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/30/23 12:01	5/30/23 12:01			28.71	uS/cm			FA
pH	5/30/23 12:01	5/30/23 12:01			5.15	SU			FA
Temperature	5/30/23 12:01	5/30/23 12:01			18.21	C			FA
Turbidity	5/30/23 12:01	5/30/23 12:01			1.66	NTU			FA
Sulfide	5/30/23 12:01	5/30/23 12:01			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 12:05

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-30

**Laboratory ID Number:** BD10183

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10188	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.165	0.170	0.105	0.0850 to 0.115	102	70.0 to 130	2.99	20.0
BD10185	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.148	0.149	0.106	0.0850 to 0.115	100	70.0 to 130	0.673	20.0
BD10188	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0901	0.0930	0.0907	0.0850 to 0.115	90.1	70.0 to 130	3.17	20.0
BD10185	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0907	0.0901	0.0921	0.0850 to 0.115	90.7	70.0 to 130	0.664	20.0
BD10188	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0993	0.102	0.103	0.0850 to 0.115	99.1	70.0 to 130	2.68	20.0
BD10185	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10188	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.139	0.141	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD10185	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.277	0.277	0.102	0.0850 to 0.115	98.0	70.0 to 130	0.00	20.0
BD10188	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10185	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.104	0.108	0.105	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BD10188	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.00	1.01	0.999	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD10185	Boron, Total	mg/L	0.000112	0.0650	1.00	1.02	1.02	0.998	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD10188	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0970	0.0985	0.0992	0.0850 to 0.115	96.9	70.0 to 130	1.53	20.0
BD10185	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.0978	0.0969	0.0999	0.0850 to 0.115	97.3	70.0 to 130	0.924	20.0
BD10188	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	13.3	13.2	4.78	4.25 to 5.75	94.0	70.0 to 130	0.755	20.0
BD10185	Calcium, Total	mg/L	0.000397	0.152	5.00	7.01	6.91	4.81	4.25 to 5.75	95.8	70.0 to 130	1.44	20.0
BD10191	Chloride	mg/L	0.015	1.00	10.0	10.1	10.1	10.1	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BD10188	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0967	0.102	0.0995	0.0850 to 0.115	96.4	70.0 to 130	5.33	20.0
BD10185	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.0999	0.101	0.0850 to 0.115	99.4	70.0 to 130	0.100	20.0
BD10188	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0964	0.0999	0.0970	0.0850 to 0.115	95.9	70.0 to 130	3.57	20.0
BD10185	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.0994	0.0988	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.605	20.0
BD10185	Fluoride	mg/L	0.0634	0.125	2.50	2.38	2.38	2.55	2.25 to 2.75	95.2	80.0 to 120	0.00	20.0
BD10188	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.199	0.201	0.201	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD10185	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 5/30/23 12:05  
**Customer ID:**  
**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-30

**Laboratory ID Number:** BD10183

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10188	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD10185	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.105	0.106	0.107	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD10188	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.205	0.208	0.205	0.170 to 0.230	102	70.0 to 130	1.45	20.0
BD10185	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.204	0.206	0.205	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BD10188	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	6.11	6.13	5.02	4.25 to 5.75	98.8	70.0 to 130	0.327	20.0
BD10185	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	6.47	6.42	4.98	4.25 to 5.75	99.4	70.0 to 130	0.776	20.0
BD10188	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.159	0.165	0.106	0.0850 to 0.115	102	70.0 to 130	3.70	20.0
BD10185	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.153	0.153	0.102	0.0850 to 0.115	99.9	70.0 to 130	0.00	20.0
BD10185	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00391	0.00391	0.00389	0.00340 to 0.00460	97.8	70.0 to 130	0.00	20.0
BD10188	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.203	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10185	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.205	0.205	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD10188	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	10.6	10.9	10.2	8.50 to 11.5	101	70.0 to 130	2.79	20.0
BD10185	Potassium, Total	mg/L	0.00141	0.367	10.0	11.8	11.7	10.6	8.50 to 11.5	102	70.0 to 130	0.851	20.0
BD10188	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BD10185	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.0975	0.0963	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.24	20.0
BD10188	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	6.21	6.23	1.02	0.850 to 1.15	105	70.0 to 130	0.322	20.0
BD10185	Silicon, Total	mg/L	0.000658	0.0440	1.00	4.67	4.65	1.02	0.850 to 1.15	104	70.0 to 130	0.429	20.0
BD10188	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	8.88	9.00	5.01	4.25 to 5.75	95.0	70.0 to 130	1.34	20.0
BD10185	Sodium, Total	mg/L	0.00301	0.0880	5.00	6.14	6.18	4.96	4.25 to 5.75	96.4	70.0 to 130	0.649	20.0
BD10185	Sulfate	mg/L	-0.0671	2.0	20.0	31.2	31.4	20.5	18.0 to 22.0	106	80.0 to 120	0.639	20.0
BD10188	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.107	0.107	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD10185	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD10184	Total Organic Carbon	mg/L	0.128	1.00	10.0	9.93	9.34	22.9		99.3	80.0 to 120	6.12	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 12:05

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-30

**Laboratory ID Number:** BD10183

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10173	Alkalinity	mg CaCO3/L					158	50.0	45.0 to 55.0			0.635	10.0
BD10185	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.77	0.737	1.86	1.80 to 2.20	103	90.0 to 110	2.75	15.0
BD10190	Solids, Dissolved	mg/L	1.00	25.0			466	55.0	40.0 to 60.0			0.215	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-29

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 13:18  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10184

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 17:10		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/2/23 11:34	6/6/23 17:10		1.015	0.238	mg/L	0.070035	0.406	J
* Iron, Total	6/2/23 11:34	6/6/23 17:10		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/2/23 11:34	6/6/23 17:10		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/2/23 11:34	6/6/23 17:10		1.015	0.306	mg/L	0.021315	0.406	J
* Molybdenum, Total	6/2/23 11:34	6/6/23 17:10		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 17:10		1	8.47	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 17:10		1.015	3.96	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/6/23 17:10		1.015	1.03	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>						
* Boron, Dissolved	6/1/23 12:45	6/6/23 14:09		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	6/1/23 12:45	6/6/23 14:09		1.015	0.219	mg/L	0.070035	0.406	J
* Iron, Dissolved	6/1/23 12:45	6/6/23 14:09		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	6/1/23 12:45	6/6/23 14:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 14:09		1.015	0.312	mg/L	0.021315	0.406	J
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 14:09		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 14:09		1	8.43	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 14:09		1.015	3.94	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 14:09		1.015	1.05	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 15:26		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	6/2/23 11:34	6/2/23 15:26		1.015	0.0231	mg/L	0.009135	0.05075	J
* Arsenic, Total	6/2/23 11:34	6/2/23 15:26		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	6/2/23 11:34	6/2/23 15:26		1.015	0.0452	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 15:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 15:26		1.015	0.000158	mg/L	0.000068	0.000203	J
* Chromium, Total	6/2/23 11:34	6/2/23 15:26		1.015	0.000345	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 15:26		1.015	0.000970	mg/L	0.000068	0.000203	
* Lead, Total	6/2/23 11:34	6/2/23 15:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 15:26		1.015	0.0148	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-29

**Location Code:** WMWGREAP

**Collected:** 5/30/23 13:18

**Customer ID:**

**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10184

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 15:26		1.015	1.00	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 15:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 15:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 14:23		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 14:23		1.015	0.0193	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 14:23		1.015	0.000123	mg/L	0.000112	0.000203	J
* Barium, Dissolved	6/1/23 12:45	6/1/23 14:23		1.015	0.0435	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 14:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 14:23		1.015	0.000154	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	6/1/23 12:45	6/1/23 14:23		1.015	0.000283	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 14:23		1.015	0.000921	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 14:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/1/23 14:23		1.015	0.0155	mg/L	0.000152	0.001015	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 14:23		1.015	0.948	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 14:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 14:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 20:06		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 16:25	6/1/23 16:25		1	0.474	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/9/23 09:47	6/9/23 11:51		1	4.56	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:50	6/5/23 14:00		1	Not Detected	mg/L		25	U
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/9/23 09:47	6/9/23 11:51		1	4.56	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/9/23 09:47	6/9/23 11:51		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 19:13	6/7/23 19:13		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-29

**Location Code:** WMWGREAP

**Collected:** 5/30/23 13:18

**Customer ID:**

**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10184

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 10:07	6/8/23 10:07		1	1.27	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 11:07	6/9/23 11:07		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 11:09	6/7/23 11:09		1	1.11	mg/L	0.6	2	J
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/30/23 13:15	5/30/23 13:15			14.87	uS/cm			FA
pH	5/30/23 13:15	5/30/23 13:15			4.82	SU			FA
Temperature	5/30/23 13:15	5/30/23 13:15			18.07	C			FA
Turbidity	5/30/23 13:15	5/30/23 13:15			0.95	NTU			FA
Sulfide	5/30/23 13:15	5/30/23 13:15			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 13:18

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-29

**Laboratory ID Number:** BD10184

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10188	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.165	0.170	0.105	0.0850 to 0.115	102	70.0 to 130	2.99	20.0
BD10185	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.148	0.149	0.106	0.0850 to 0.115	100	70.0 to 130	0.673	20.0
BD10188	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0901	0.0930	0.0907	0.0850 to 0.115	90.1	70.0 to 130	3.17	20.0
BD10185	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0907	0.0901	0.0921	0.0850 to 0.115	90.7	70.0 to 130	0.664	20.0
BD10188	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0993	0.102	0.103	0.0850 to 0.115	99.1	70.0 to 130	2.68	20.0
BD10185	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10188	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.139	0.141	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD10185	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.277	0.277	0.102	0.0850 to 0.115	98.0	70.0 to 130	0.00	20.0
BD10188	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10185	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.104	0.108	0.105	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BD10188	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.00	1.01	0.999	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD10185	Boron, Total	mg/L	0.000112	0.0650	1.00	1.02	1.02	0.998	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD10188	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0970	0.0985	0.0992	0.0850 to 0.115	96.9	70.0 to 130	1.53	20.0
BD10185	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.0978	0.0969	0.0999	0.0850 to 0.115	97.3	70.0 to 130	0.924	20.0
BD10188	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	13.3	13.2	4.78	4.25 to 5.75	94.0	70.0 to 130	0.755	20.0
BD10185	Calcium, Total	mg/L	0.000397	0.152	5.00	7.01	6.91	4.81	4.25 to 5.75	95.8	70.0 to 130	1.44	20.0
BD10191	Chloride	mg/L	0.015	1.00	10.0	10.1	10.1	10.1	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BD10188	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0967	0.102	0.0995	0.0850 to 0.115	96.4	70.0 to 130	5.33	20.0
BD10185	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.0999	0.101	0.0850 to 0.115	99.4	70.0 to 130	0.100	20.0
BD10188	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0964	0.0999	0.0970	0.0850 to 0.115	95.9	70.0 to 130	3.57	20.0
BD10185	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.0994	0.0988	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.605	20.0
BD10185	Fluoride	mg/L	0.0634	0.125	2.50	2.38	2.38	2.55	2.25 to 2.75	95.2	80.0 to 120	0.00	20.0
BD10188	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.199	0.201	0.201	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD10185	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 13:18

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-29

**Laboratory ID Number:** BD10184

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10188	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD10185	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.105	0.106	0.107	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD10188	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.205	0.208	0.205	0.170 to 0.230	102	70.0 to 130	1.45	20.0
BD10185	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.204	0.206	0.205	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BD10188	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	6.11	6.13	5.02	4.25 to 5.75	98.8	70.0 to 130	0.327	20.0
BD10185	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	6.47	6.42	4.98	4.25 to 5.75	99.4	70.0 to 130	0.776	20.0
BD10188	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.159	0.165	0.106	0.0850 to 0.115	102	70.0 to 130	3.70	20.0
BD10185	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.153	0.153	0.102	0.0850 to 0.115	99.9	70.0 to 130	0.00	20.0
BD10185	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00391	0.00391	0.00389	0.00340 to 0.00460	97.8	70.0 to 130	0.00	20.0
BD10188	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.203	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10185	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.205	0.205	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD10188	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	10.6	10.9	10.2	8.50 to 11.5	101	70.0 to 130	2.79	20.0
BD10185	Potassium, Total	mg/L	0.00141	0.367	10.0	11.8	11.7	10.6	8.50 to 11.5	102	70.0 to 130	0.851	20.0
BD10188	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BD10185	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.0975	0.0963	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.24	20.0
BD10188	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	6.21	6.23	1.02	0.850 to 1.15	105	70.0 to 130	0.322	20.0
BD10185	Silicon, Total	mg/L	0.000658	0.0440	1.00	4.67	4.65	1.02	0.850 to 1.15	104	70.0 to 130	0.429	20.0
BD10188	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	8.88	9.00	5.01	4.25 to 5.75	95.0	70.0 to 130	1.34	20.0
BD10185	Sodium, Total	mg/L	0.00301	0.0880	5.00	6.14	6.18	4.96	4.25 to 5.75	96.4	70.0 to 130	0.649	20.0
BD10185	Sulfate	mg/L	-0.0671	2.0	20.0	31.2	31.4	20.5	18.0 to 22.0	106	80.0 to 120	0.639	20.0
BD10188	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.107	0.107	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD10185	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD10184	Total Organic Carbon	mg/L	0.128	1.00	10.0	9.93	9.34	22.9		99.3	80.0 to 120	6.12	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 13:18

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-29

**Laboratory ID Number:** BD10184

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10173	Alkalinity	mg CaCO3/L					158	50.0	45.0 to 55.0			0.635	10.0
BD10185	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.77	0.737	1.86	1.80 to 2.20	103	90.0 to 110	2.75	15.0
BD10190	Solids, Dissolved	mg/L	1.00	25.0			466	55.0	40.0 to 60.0			0.215	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-28

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 14:38  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10185

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 17:13		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/2/23 11:34	6/6/23 17:13		1.015	2.22	mg/L	0.070035	0.406	
* Iron, Total	6/2/23 11:34	6/6/23 17:13		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/2/23 11:34	6/6/23 17:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/2/23 11:34	6/6/23 17:13		1.015	1.50	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 17:13		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 17:13		1	7.77	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 17:13		1.015	3.63	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/6/23 17:13		1.015	1.32	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	6/1/23 12:45	6/6/23 14:12		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	6/1/23 12:45	6/6/23 14:12		1.015	2.24	mg/L	0.070035	0.406	
* Iron, Dissolved	6/1/23 12:45	6/6/23 14:12		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	6/1/23 12:45	6/6/23 14:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 14:12		1.015	1.48	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 14:12		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 14:12		1	7.88	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 14:12		1.015	3.68	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 14:12		1.015	1.36	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 15:30		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	6/2/23 11:34	6/2/23 15:30		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	6/2/23 11:34	6/2/23 15:30		1.015	0.0477	mg/L	0.009135	0.05075	J
* Barium, Total	6/2/23 11:34	6/2/23 15:30		1.015	0.179	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 15:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 15:30		1.015	0.000478	mg/L	0.000068	0.000203	
* Chromium, Total	6/2/23 11:34	6/2/23 15:30		1.015	0.000631	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 15:30		1.015	0.000213	mg/L	0.000068	0.000203	
* Lead, Total	6/2/23 11:34	6/2/23 15:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 15:30		1.015	0.0531	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-28

**Location Code:** WMWGREAP

**Collected:** 5/30/23 14:38

**Customer ID:**

**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10185

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 15:30		1.015	1.59	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 15:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 15:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 14:27		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 14:27		1.015	0.0529	mg/L	0.009135	0.05075	
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 14:27		1.015	0.000142	mg/L	0.000112	0.000203	J
* Barium, Dissolved	6/1/23 12:45	6/1/23 14:27		1.015	0.179	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 14:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 14:27		1.015	0.000397	mg/L	0.000068	0.000203	
* Chromium, Dissolved	6/1/23 12:45	6/1/23 14:27		1.015	0.000602	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 14:27		1.015	0.000338	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 14:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/1/23 14:27		1.015	0.0628	mg/L	0.000152	0.001015	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 14:27		1.015	1.66	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 14:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 14:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 20:10		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 16:27	6/1/23 16:27		1	0.717	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/12/23 11:01	6/12/23 13:52		1	2.74	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:50	6/5/23 14:00		1	32.7	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	2.74	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/7/23 19:00	6/7/23 19:00		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-28

**Location Code:** WMWGREAP

**Collected:** 5/30/23 14:38

**Customer ID:**

**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10185

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 10:08	6/8/23 10:08		1	1.35	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 11:08	6/9/23 11:08		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 11:11	6/7/23 11:11		1	10.1	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/30/23 14:35	5/30/23 14:35			35.83	uS/cm			FA
pH	5/30/23 14:35	5/30/23 14:35			5.04	SU			FA
Temperature	5/30/23 14:35	5/30/23 14:35			18.41	C			FA
Turbidity	5/30/23 14:35	5/30/23 14:35			1.04	NTU			FA
Sulfide	5/30/23 14:35	5/30/23 14:35			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 5/30/23 14:38  
**Customer ID:**  
**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-28

**Laboratory ID Number:** BD10185

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10188	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.165	0.170	0.105	0.0850 to 0.115	102	70.0 to 130	2.99	20.0
BD10185	Aluminum, Total	mg/L	0.000762	0.0198	0.100	0.148	0.149	0.106	0.0850 to 0.115	100	70.0 to 130	0.673	20.0
BD10188	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0901	0.0930	0.0907	0.0850 to 0.115	90.1	70.0 to 130	3.17	20.0
BD10185	Antimony, Total	mg/L	0.000442	0.00100	0.100	0.0907	0.0901	0.0921	0.0850 to 0.115	90.7	70.0 to 130	0.664	20.0
BD10188	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0993	0.102	0.103	0.0850 to 0.115	99.1	70.0 to 130	2.68	20.0
BD10185	Arsenic, Total	mg/L	0.0000071	0.000200	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD10188	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.139	0.141	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD10185	Barium, Total	mg/L	0.0000385	0.00100	0.100	0.277	0.277	0.102	0.0850 to 0.115	98.0	70.0 to 130	0.00	20.0
BD10188	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10185	Beryllium, Total	mg/L	0.0000179	0.000880	0.100	0.104	0.108	0.105	0.0850 to 0.115	104	70.0 to 130	3.77	20.0
BD10188	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.00	1.01	0.999	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD10185	Boron, Total	mg/L	0.000112	0.0650	1.00	1.02	1.02	0.998	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD10188	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0970	0.0985	0.0992	0.0850 to 0.115	96.9	70.0 to 130	1.53	20.0
BD10185	Cadmium, Total	mg/L	0.0000058	0.000147	0.100	0.0978	0.0969	0.0999	0.0850 to 0.115	97.3	70.0 to 130	0.924	20.0
BD10188	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	13.3	13.2	4.78	4.25 to 5.75	94.0	70.0 to 130	0.755	20.0
BD10185	Calcium, Total	mg/L	0.000397	0.152	5.00	7.01	6.91	4.81	4.25 to 5.75	95.8	70.0 to 130	1.44	20.0
BD10191	Chloride	mg/L	0.015	1.00	10.0	10.1	10.1	10.1	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BD10188	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0967	0.102	0.0995	0.0850 to 0.115	96.4	70.0 to 130	5.33	20.0
BD10185	Chromium, Total	mg/L	-0.0000478	0.000440	0.100	0.100	0.0999	0.101	0.0850 to 0.115	99.4	70.0 to 130	0.100	20.0
BD10188	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0964	0.0999	0.0970	0.0850 to 0.115	95.9	70.0 to 130	3.57	20.0
BD10185	Cobalt, Total	mg/L	-0.0000297	0.000147	0.100	0.0994	0.0988	0.101	0.0850 to 0.115	99.2	70.0 to 130	0.605	20.0
BD10185	Fluoride	mg/L	0.0634	0.125	2.50	2.38	2.38	2.55	2.25 to 2.75	95.2	80.0 to 120	0.00	20.0
BD10188	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.199	0.201	0.201	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD10185	Iron, Total	mg/L	0.00176	0.0176	0.2	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 14:38

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-28

**Laboratory ID Number:** BD10185

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10188	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD10185	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.105	0.106	0.107	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD10188	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.205	0.208	0.205	0.170 to 0.230	102	70.0 to 130	1.45	20.0
BD10185	Lithium, Total	mg/L	0.000818	0.0154	0.200	0.204	0.206	0.205	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BD10188	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	6.11	6.13	5.02	4.25 to 5.75	98.8	70.0 to 130	0.327	20.0
BD10185	Magnesium, Total	mg/L	-0.00182	0.0462	5.00	6.47	6.42	4.98	4.25 to 5.75	99.4	70.0 to 130	0.776	20.0
BD10188	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.159	0.165	0.106	0.0850 to 0.115	102	70.0 to 130	3.70	20.0
BD10185	Manganese, Total	mg/L	-0.0000287	0.00033	0.100	0.153	0.153	0.102	0.0850 to 0.115	99.9	70.0 to 130	0.00	20.0
BD10185	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00391	0.00391	0.00389	0.00340 to 0.00460	97.8	70.0 to 130	0.00	20.0
BD10188	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.203	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10185	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.204	0.205	0.205	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BD10188	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	10.6	10.9	10.2	8.50 to 11.5	101	70.0 to 130	2.79	20.0
BD10185	Potassium, Total	mg/L	0.00141	0.367	10.0	11.8	11.7	10.6	8.50 to 11.5	102	70.0 to 130	0.851	20.0
BD10188	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BD10185	Selenium, Total	mg/L	0.0000384	0.00100	0.100	0.0975	0.0963	0.101	0.0850 to 0.115	97.5	70.0 to 130	1.24	20.0
BD10188	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	6.21	6.23	1.02	0.850 to 1.15	105	70.0 to 130	0.322	20.0
BD10185	Silicon, Total	mg/L	0.000658	0.0440	1.00	4.67	4.65	1.02	0.850 to 1.15	104	70.0 to 130	0.429	20.0
BD10188	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	8.88	9.00	5.01	4.25 to 5.75	95.0	70.0 to 130	1.34	20.0
BD10185	Sodium, Total	mg/L	0.00301	0.0880	5.00	6.14	6.18	4.96	4.25 to 5.75	96.4	70.0 to 130	0.649	20.0
BD10185	Sulfate	mg/L	-0.0671	2.0	20.0	31.2	31.4	20.5	18.0 to 22.0	106	80.0 to 120	0.639	20.0
BD10188	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.107	0.107	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD10185	Thallium, Total	mg/L	-0.0000770	0.000147	0.100	0.107	0.104	0.108	0.0850 to 0.115	107	70.0 to 130	2.84	20.0
BD10184	Total Organic Carbon	mg/L	0.128	1.00	10.0	9.93	9.34	22.9		99.3	80.0 to 120	6.12	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 14:38

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-28

**Laboratory ID Number:** BD10185

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10179	Alkalinity	mg CaCO3/L					119	51.0	45.0 to 55.0			1.67	10.0
BD10185	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.77	0.737	1.86	1.80 to 2.20	103	90.0 to 110	2.75	15.0
BD10190	Solids, Dissolved	mg/L	1.00	25.0			466	55.0	40.0 to 60.0			0.215	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-27

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 15:33  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10186

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 17:36		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/2/23 11:34	6/6/23 17:36		1.015	1.27	mg/L	0.070035	0.406	
* Iron, Total	6/2/23 11:34	6/6/23 17:36		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/2/23 11:34	6/6/23 17:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/2/23 11:34	6/6/23 17:36		1.015	0.673	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 17:36		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 17:36		1	10.5	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 17:36		1.015	4.92	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/6/23 17:36		1.015	3.06	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>						
* Boron, Dissolved	6/1/23 12:45	6/6/23 14:16		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	6/1/23 12:45	6/6/23 14:16		1.015	1.21	mg/L	0.070035	0.406	
* Iron, Dissolved	6/1/23 12:45	6/6/23 14:16		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	6/1/23 12:45	6/6/23 14:16		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 14:16		1.015	0.646	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 14:16		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 14:16		1	10.6	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 14:16		1.015	4.93	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 14:16		1.015	3.10	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 15:58		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	6/2/23 11:34	6/2/23 15:58		1.015	0.0208	mg/L	0.009135	0.05075	J
* Arsenic, Total	6/2/23 11:34	6/2/23 15:58		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	6/2/23 11:34	6/2/23 15:58		1.015	0.0747	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 15:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 15:58		1.015	0.000188	mg/L	0.000068	0.000203	J
* Chromium, Total	6/2/23 11:34	6/2/23 15:58		1.015	0.000287	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 15:58		1.015	0.000120	mg/L	0.000068	0.000203	J
* Lead, Total	6/2/23 11:34	6/2/23 15:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 15:58		1.015	0.0176	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-27

**Location Code:** WMWGREAP

**Collected:** 5/30/23 15:33

**Customer ID:**

**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10186

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 15:58		1.015	0.959	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 15:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 15:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 14:30		1.015	0.000778	mg/L	0.000710	0.001015	J
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 14:30		1.015	0.0208	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 14:30		1.015	0.000164	mg/L	0.000112	0.000203	J
* Barium, Dissolved	6/1/23 12:45	6/1/23 14:30		1.015	0.0746	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 14:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 14:30		1.015	0.000179	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	6/1/23 12:45	6/1/23 14:30		1.015	0.000313	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 14:30		1.015	0.000155	mg/L	0.000068	0.000203	J
* Lead, Dissolved	6/1/23 12:45	6/1/23 14:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/1/23 14:30		1.015	0.0187	mg/L	0.000152	0.001015	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 14:30		1.015	0.943	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 14:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 14:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 20:37		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 16:36	6/1/23 16:36		1	0.603	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/12/23 11:01	6/12/23 13:52		1	5.64	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:50	6/5/23 14:00		1	33.3	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	5.64	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/5/23 20:48	6/5/23 20:48		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-27

**Location Code:** WMWGREAP

**Collected:** 5/30/23 15:33

**Customer ID:**

**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10186

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 10:10	6/8/23 10:10		1	2.05	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 11:20	6/9/23 11:20		1	0.0734	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 11:33	6/7/23 11:33		1	5.96	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/30/23 15:29	5/30/23 15:29			33.85	uS/cm			FA
pH	5/30/23 15:29	5/30/23 15:29			4.65	SU			FA
Temperature	5/30/23 15:29	5/30/23 15:29			19.01	C			FA
Turbidity	5/30/23 15:29	5/30/23 15:29			1.28	NTU			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 15:33

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-27

**Laboratory ID Number:** BD10186

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD10188	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.165	0.170	0.105	0.0850 to 0.115	102	70.0 to 130	2.99	20.0
BD10192	Aluminum, Total	mg/L	0.000820	0.0198	0.100	0.108	0.114	0.104	0.0850 to 0.115	108	70.0 to 130	5.41	20.0
BD10188	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0901	0.0930	0.0907	0.0850 to 0.115	90.1	70.0 to 130	3.17	20.0
BD10192	Antimony, Total	mg/L	0.000492	0.00100	0.100	0.0976	0.100	0.0886	0.0850 to 0.115	97.6	70.0 to 130	2.43	20.0
BD10188	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0993	0.102	0.103	0.0850 to 0.115	99.1	70.0 to 130	2.68	20.0
BD10192	Arsenic, Total	mg/L	0.0000042	0.000200	0.100	0.0997	0.103	0.102	0.0850 to 0.115	99.7	70.0 to 130	3.26	20.0
BD10188	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.139	0.141	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD10192	Barium, Total	mg/L	0.0000500	0.00100	0.100	0.149	0.154	0.102	0.0850 to 0.115	95.1	70.0 to 130	3.30	20.0
BD10188	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10192	Beryllium, Total	mg/L	0.0000208	0.000880	0.100	0.108	0.105	0.108	0.0850 to 0.115	108	70.0 to 130	2.82	20.0
BD10188	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.00	1.01	0.999	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD10192	Boron, Total	mg/L	0.000086	0.0650	1.00	1.03	1.03	0.992	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD10188	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0970	0.0985	0.0992	0.0850 to 0.115	96.9	70.0 to 130	1.53	20.0
BD10192	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.0956	0.0966	0.0987	0.0850 to 0.115	95.6	70.0 to 130	1.04	20.0
BD10188	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	13.3	13.2	4.78	4.25 to 5.75	94.0	70.0 to 130	0.755	20.0
BD10192	Calcium, Total	mg/L	-0.0105	0.152	5.00	20.1	20.3	4.68	4.25 to 5.75	90.0	70.0 to 130	0.990	20.0
BD10191	Chloride	mg/L	0.015	1.00	10.0	10.1	10.1	10.1	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BD10188	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0967	0.102	0.0995	0.0850 to 0.115	96.4	70.0 to 130	5.33	20.0
BD10192	Chromium, Total	mg/L	0.0000790	0.000440	0.100	0.0980	0.103	0.102	0.0850 to 0.115	97.8	70.0 to 130	4.98	20.0
BD10188	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0964	0.0999	0.0970	0.0850 to 0.115	95.9	70.0 to 130	3.57	20.0
BD10192	Cobalt, Total	mg/L	-0.0000245	0.000147	0.100	0.100	0.104	0.102	0.0850 to 0.115	98.5	70.0 to 130	3.92	20.0
BD10192	Fluoride	mg/L	0.0532	0.125	2.50	2.52	2.50	2.57	2.25 to 2.75	101	80.0 to 120	0.797	20.0
BD10188	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.199	0.201	0.201	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD10192	Iron, Total	mg/L	0.00251	0.0176	0.2	0.210	0.208	0.202	0.170 to 0.230	105	70.0 to 130	0.957	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 15:33

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-27

**Laboratory ID Number:** BD10186

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD10188	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD10192	Lead, Total	mg/L	0.0000089	0.000147	0.100	0.103	0.104	0.109	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD10188	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.205	0.208	0.205	0.170 to 0.230	102	70.0 to 130	1.45	20.0
BD10192	Lithium, Total	mg/L	0.000619	0.0154	0.200	0.209	0.210	0.204	0.170 to 0.230	104	70.0 to 130	0.477	20.0
BD10188	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	6.11	6.13	5.02	4.25 to 5.75	98.8	70.0 to 130	0.327	20.0
BD10192	Magnesium, Total	mg/L	0.00422	0.0462	5.00	7.08	7.16	4.92	4.25 to 5.75	97.6	70.0 to 130	1.12	20.0
BD10188	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.159	0.165	0.106	0.0850 to 0.115	102	70.0 to 130	3.70	20.0
BD10192	Manganese, Total	mg/L	0.000212	0.00033	0.100	0.103	0.109	0.104	0.0850 to 0.115	98.7	70.0 to 130	5.66	20.0
BD10192	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00392	0.00393	0.00388	0.00340 to 0.00460	98.0	70.0 to 130	0.255	20.0
BD10188	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.203	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10192	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.206	0.205	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BD10188	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	10.6	10.9	10.2	8.50 to 11.5	101	70.0 to 130	2.79	20.0
BD10192	Potassium, Total	mg/L	0.0144	0.367	10.0	11.0	11.5	10.5	8.50 to 11.5	101	70.0 to 130	4.44	20.0
BD10188	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BD10192	Selenium, Total	mg/L	-0.0000314	0.00100	0.100	0.0943	0.0966	0.0988	0.0850 to 0.115	94.3	70.0 to 130	2.41	20.0
BD10188	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	6.21	6.23	1.02	0.850 to 1.15	105	70.0 to 130	0.322	20.0
BD10192	Silicon, Total	mg/L	0.00110	0.0440	1.00	5.36	5.37	1.01	0.850 to 1.15	104	70.0 to 130	0.186	20.0
BD10188	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	8.88	9.00	5.01	4.25 to 5.75	95.0	70.0 to 130	1.34	20.0
BD10192	Sodium, Total	mg/L	-0.000137	0.0880	5.00	21.5	21.7	4.84	4.25 to 5.75	96.0	70.0 to 130	0.926	20.0
BD10192	Sulfate	mg/L	-0.600	2.0	20.0	40.8	41.1	20.4	18.0 to 22.0	88.0	80.0 to 120	0.733	20.0
BD10188	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.107	0.107	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD10192	Thallium, Total	mg/L	-0.0000771	0.000147	0.100	0.104	0.105	0.104	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD10192	Total Organic Carbon	mg/L	0.0796	1.00	10.0	10.2	10.3	22.3		89.1	80.0 to 120	0.976	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 15:33

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-27

**Laboratory ID Number:** BD10186

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10179	Alkalinity	mg CaCO3/L					119	51.0	45.0 to 55.0			1.67	10.0
BD10192	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.05	0.200	2.00	3.78	1.78	1.85	1.80 to 2.20	101	90.0 to 110	1.13	15.0
BD10190	Solids, Dissolved	mg/L	1.00	25.0			466	55.0	40.0 to 60.0			0.215	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-26

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 16:20  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10187

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 17:39		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/2/23 11:34	6/6/23 17:39		1.015	8.37	mg/L	0.070035	0.406	
* Iron, Total	6/2/23 11:34	6/6/23 17:39		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/2/23 11:34	6/6/23 17:39		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/2/23 11:34	6/6/23 17:39		1.015	1.15	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 17:39		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 17:39		1	11.1	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 17:39		1.015	5.19	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/6/23 17:39		1.015	4.07	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	6/1/23 12:45	6/6/23 14:19		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	6/1/23 12:45	6/6/23 14:19		1.015	8.32	mg/L	0.070035	0.406	
* Iron, Dissolved	6/1/23 12:45	6/6/23 14:19		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	6/1/23 12:45	6/6/23 14:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 14:19		1.015	1.12	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 14:19		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 14:19		1	11.1	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 14:19		1.015	5.20	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 14:19		1.015	4.12	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 16:02		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	6/2/23 11:34	6/2/23 16:02		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	6/2/23 11:34	6/2/23 16:02		1.015	0.0608	mg/L	0.009135	0.05075	
* Barium, Total	6/2/23 11:34	6/2/23 16:02		1.015	0.0393	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 16:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/2/23 11:34	6/2/23 16:02		1.015	0.000280	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 16:02		1.015	0.000497	mg/L	0.000068	0.000203	
* Lead, Total	6/2/23 11:34	6/2/23 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 16:02		1.015	0.0553	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-26

**Location Code:** WMWGREAP

**Collected:** 5/30/23 16:20

**Customer ID:**

**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10187

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 16:02		1.015	0.552	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 16:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 14:34		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 14:34		1.015	0.0629	mg/L	0.009135	0.05075	
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 14:34		1.015	0.000225	mg/L	0.000112	0.000203	
* Barium, Dissolved	6/1/23 12:45	6/1/23 14:34		1.015	0.0399	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 14:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 14:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	6/1/23 12:45	6/1/23 14:34		1.015	0.000252	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 14:34		1.015	0.000535	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 14:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/1/23 14:34		1.015	0.0542	mg/L	0.000152	0.001015	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 14:34		1.015	0.535	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 14:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 14:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 20:41		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 16:38	6/1/23 16:38		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/12/23 11:01	6/12/23 13:52		1	16.1	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:50	6/5/23 14:00		1	57.3	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	16.1	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/5/23 21:00	6/5/23 21:00		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-26

**Location Code:** WMWGREAP

**Collected:** 5/30/23 16:20

**Customer ID:**

**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10187

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 10:11	6/8/23 10:11		1	2.89	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 11:21	6/9/23 11:21		1	0.0642	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 11:34	6/7/23 11:34		1	16.0	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/30/23 16:18	5/30/23 16:18			76.31	uS/cm			FA
pH	5/30/23 16:18	5/30/23 16:18			5.07	SU			FA
Temperature	5/30/23 16:18	5/30/23 16:18			18.17	C			FA
Turbidity	5/30/23 16:18	5/30/23 16:18			1.02	NTU			FA
Sulfide	5/30/23 16:18	5/30/23 16:18			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 16:20

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-26

**Laboratory ID Number:** BD10187

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BD10188	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.165	0.170	0.105	0.0850 to 0.115	102	70.0 to 130	2.99	20.0
BD10192	Aluminum, Total	mg/L	0.000820	0.0198	0.100	0.108	0.114	0.104	0.0850 to 0.115	108	70.0 to 130	5.41	20.0
BD10188	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0901	0.0930	0.0907	0.0850 to 0.115	90.1	70.0 to 130	3.17	20.0
BD10192	Antimony, Total	mg/L	0.000492	0.00100	0.100	0.0976	0.100	0.0886	0.0850 to 0.115	97.6	70.0 to 130	2.43	20.0
BD10188	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0993	0.102	0.103	0.0850 to 0.115	99.1	70.0 to 130	2.68	20.0
BD10192	Arsenic, Total	mg/L	0.0000042	0.000200	0.100	0.0997	0.103	0.102	0.0850 to 0.115	99.7	70.0 to 130	3.26	20.0
BD10188	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.139	0.141	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0
BD10192	Barium, Total	mg/L	0.0000500	0.00100	0.100	0.149	0.154	0.102	0.0850 to 0.115	95.1	70.0 to 130	3.30	20.0
BD10188	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD10192	Beryllium, Total	mg/L	0.0000208	0.000880	0.100	0.108	0.105	0.108	0.0850 to 0.115	108	70.0 to 130	2.82	20.0
BD10188	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.00	1.01	0.999	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD10192	Boron, Total	mg/L	0.000086	0.0650	1.00	1.03	1.03	0.992	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD10188	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0970	0.0985	0.0992	0.0850 to 0.115	96.9	70.0 to 130	1.53	20.0
BD10192	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.0956	0.0966	0.0987	0.0850 to 0.115	95.6	70.0 to 130	1.04	20.0
BD10188	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	13.3	13.2	4.78	4.25 to 5.75	94.0	70.0 to 130	0.755	20.0
BD10192	Calcium, Total	mg/L	-0.0105	0.152	5.00	20.1	20.3	4.68	4.25 to 5.75	90.0	70.0 to 130	0.990	20.0
BD10191	Chloride	mg/L	0.015	1.00	10.0	10.1	10.1	10.1	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BD10188	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0967	0.102	0.0995	0.0850 to 0.115	96.4	70.0 to 130	5.33	20.0
BD10192	Chromium, Total	mg/L	0.0000790	0.000440	0.100	0.0980	0.103	0.102	0.0850 to 0.115	97.8	70.0 to 130	4.98	20.0
BD10188	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0964	0.0999	0.0970	0.0850 to 0.115	95.9	70.0 to 130	3.57	20.0
BD10192	Cobalt, Total	mg/L	-0.0000245	0.000147	0.100	0.100	0.104	0.102	0.0850 to 0.115	98.5	70.0 to 130	3.92	20.0
BD10192	Fluoride	mg/L	0.0532	0.125	2.50	2.52	2.50	2.57	2.25 to 2.75	101	80.0 to 120	0.797	20.0
BD10188	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.199	0.201	0.201	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0
BD10192	Iron, Total	mg/L	0.00251	0.0176	0.2	0.210	0.208	0.202	0.170 to 0.230	105	70.0 to 130	0.957	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 16:20

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-26

**Laboratory ID Number:** BD10187

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BD10188	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD10192	Lead, Total	mg/L	0.0000089	0.000147	0.100	0.103	0.104	0.109	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD10188	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.205	0.208	0.205	0.170 to 0.230	102	70.0 to 130	1.45	20.0
BD10192	Lithium, Total	mg/L	0.000619	0.0154	0.200	0.209	0.210	0.204	0.170 to 0.230	104	70.0 to 130	0.477	20.0
BD10188	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	6.11	6.13	5.02	4.25 to 5.75	98.8	70.0 to 130	0.327	20.0
BD10192	Magnesium, Total	mg/L	0.00422	0.0462	5.00	7.08	7.16	4.92	4.25 to 5.75	97.6	70.0 to 130	1.12	20.0
BD10188	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.159	0.165	0.106	0.0850 to 0.115	102	70.0 to 130	3.70	20.0
BD10192	Manganese, Total	mg/L	0.000212	0.00033	0.100	0.103	0.109	0.104	0.0850 to 0.115	98.7	70.0 to 130	5.66	20.0
BD10192	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00392	0.00393	0.00388	0.00340 to 0.00460	98.0	70.0 to 130	0.255	20.0
BD10188	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.203	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10192	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.206	0.205	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BD10188	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	10.6	10.9	10.2	8.50 to 11.5	101	70.0 to 130	2.79	20.0
BD10192	Potassium, Total	mg/L	0.0144	0.367	10.0	11.0	11.5	10.5	8.50 to 11.5	101	70.0 to 130	4.44	20.0
BD10188	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BD10192	Selenium, Total	mg/L	-0.0000314	0.00100	0.100	0.0943	0.0966	0.0988	0.0850 to 0.115	94.3	70.0 to 130	2.41	20.0
BD10188	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	6.21	6.23	1.02	0.850 to 1.15	105	70.0 to 130	0.322	20.0
BD10192	Silicon, Total	mg/L	0.00110	0.0440	1.00	5.36	5.37	1.01	0.850 to 1.15	104	70.0 to 130	0.186	20.0
BD10188	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	8.88	9.00	5.01	4.25 to 5.75	95.0	70.0 to 130	1.34	20.0
BD10192	Sodium, Total	mg/L	-0.000137	0.0880	5.00	21.5	21.7	4.84	4.25 to 5.75	96.0	70.0 to 130	0.926	20.0
BD10192	Sulfate	mg/L	-0.600	2.0	20.0	40.8	41.1	20.4	18.0 to 22.0	88.0	80.0 to 120	0.733	20.0
BD10188	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.107	0.107	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD10192	Thallium, Total	mg/L	-0.0000771	0.000147	0.100	0.104	0.105	0.104	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD10192	Total Organic Carbon	mg/L	0.0796	1.00	10.0	10.2	10.3	22.3		89.1	80.0 to 120	0.976	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 16:20

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-26

**Laboratory ID Number:** BD10187

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10179	Alkalinity	mg CaCO3/L					119	51.0	45.0 to 55.0			1.67	10.0
BD10192	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.05	0.200	2.00	3.78	1.78	1.85	1.80 to 2.20	101	90.0 to 110	1.13	15.0
BD10190	Solids, Dissolved	mg/L	1.00	25.0			466	55.0	40.0 to 60.0			0.215	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-26 Dup

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 16:20  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10188

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	6/2/23 11:34	6/6/23 17:42		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	6/2/23 11:34	6/6/23 17:42		1.015	8.23	mg/L	0.070035	0.406		
* Iron, Total	6/2/23 11:34	6/6/23 17:42		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	6/2/23 11:34	6/6/23 17:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	6/2/23 11:34	6/6/23 17:42		1.015	1.15	mg/L	0.021315	0.406		
* Molybdenum, Total	6/2/23 11:34	6/6/23 17:42		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 17:42		1	11.1	mg/L				
* Silicon, Total	6/2/23 11:34	6/6/23 17:42		1.015	5.19	mg/L	0.02030	0.25375		
* Sodium, Total	6/2/23 11:34	6/6/23 17:42		1.015	4.17	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	6/1/23 12:45	6/6/23 14:22		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	6/1/23 12:45	6/6/23 14:22		1.015	8.60	mg/L	0.070035	0.406		
* Iron, Dissolved	6/1/23 12:45	6/6/23 14:22		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	6/1/23 12:45	6/6/23 14:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 14:22		1.015	1.17	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 14:22		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 14:22		1	11.0	mg/L				
* Silicon, Dissolved	6/1/23 12:45	6/6/23 14:22		1.015	5.16	mg/L	0.02030	0.25375		
* Sodium, Dissolved	6/1/23 12:45	6/6/23 14:22		1.015	4.13	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	6/2/23 11:34	6/2/23 16:05		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	6/2/23 11:34	6/2/23 16:05		1.015	0.0577	mg/L	0.009135	0.05075		
* Arsenic, Total	6/2/23 11:34	6/2/23 16:05		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	6/2/23 11:34	6/2/23 16:05		1.015	0.0390	mg/L	0.000508	0.001015		
* Beryllium, Total	6/2/23 11:34	6/2/23 16:05		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/2/23 11:34	6/2/23 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/2/23 11:34	6/2/23 16:05		1.015	0.000306	mg/L	0.000203	0.001015	J	
* Cobalt, Total	6/2/23 11:34	6/2/23 16:05		1.015	0.000483	mg/L	0.000068	0.000203		
* Lead, Total	6/2/23 11:34	6/2/23 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/2/23 11:34	6/2/23 16:05		1.015	0.0522	mg/L	0.000152	0.001015		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-26 Dup

**Location Code:** WMWGREAP  
**Collected:** 5/30/23 16:20  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10188

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 16:05		1.015	0.524	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 16:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 14:37		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 14:37		1.015	0.0629	mg/L	0.009135	0.05075	
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 14:37		1.015	0.000167	mg/L	0.000112	0.000203	J
* Barium, Dissolved	6/1/23 12:45	6/1/23 14:37		1.015	0.0406	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 14:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 14:37		1.015	0.0000808	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	6/1/23 12:45	6/1/23 14:37		1.015	0.000291	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 14:37		1.015	0.000535	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 14:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/1/23 14:37		1.015	0.0566	mg/L	0.000152	0.001015	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 14:37		1.015	0.530	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 14:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 14:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 20:45		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 16:40	6/1/23 16:40		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/12/23 11:01	6/12/23 13:52		1	15.3	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:50	6/5/23 14:00		1	56.0	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	15.3	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/12/23 11:01	6/12/23 13:52		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/5/23 21:15	6/5/23 21:15		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-26 Dup

**Location Code:** WMWGREAP

**Collected:** 5/30/23 16:20

**Customer ID:**

**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10188

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 10:12	6/8/23 10:12		1	2.90	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 11:22	6/9/23 11:22		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 11:35	6/7/23 11:35		1	16.0	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/30/23 16:18	5/30/23 16:18			76.31	uS/cm			FA
pH	5/30/23 16:18	5/30/23 16:18			5.07	SU			FA
Temperature	5/30/23 16:18	5/30/23 16:18			18.17	C			FA
Turbidity	5/30/23 16:18	5/30/23 16:18			1.02	NTU			FA
Sulfide	5/30/23 16:18	5/30/23 16:18			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 5/30/23 16:20  
**Customer ID:**  
**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-26 Dup

**Laboratory ID Number:** BD10188

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec		
BD10188	Aluminum, Dissolved	mg/L	-0.000292	0.0198	0.100	0.165	0.170	0.105	0.0850 to 0.115	102	70.0 to 130	2.99	20.0	
BD10192	Aluminum, Total	mg/L	0.000820	0.0198	0.100	0.108	0.114	0.104	0.0850 to 0.115	108	70.0 to 130	5.41	20.0	
BD10188	Antimony, Dissolved	mg/L	0.000404	0.00100	0.100	0.0901	0.0930	0.0907	0.0850 to 0.115	90.1	70.0 to 130	3.17	20.0	
BD10192	Antimony, Total	mg/L	0.000492	0.00100	0.100	0.0976	0.100	0.0886	0.0850 to 0.115	97.6	70.0 to 130	2.43	20.0	
BD10188	Arsenic, Dissolved	mg/L	0.0000367	0.000200	0.100	0.0993	0.102	0.103	0.0850 to 0.115	99.1	70.0 to 130	2.68	20.0	
BD10192	Arsenic, Total	mg/L	0.0000042	0.000200	0.100	0.0997	0.103	0.102	0.0850 to 0.115	99.7	70.0 to 130	3.26	20.0	
BD10188	Barium, Dissolved	mg/L	0.0000109	0.00100	0.100	0.139	0.141	0.104	0.0850 to 0.115	98.4	70.0 to 130	1.43	20.0	
BD10192	Barium, Total	mg/L	0.0000500	0.00100	0.100	0.149	0.154	0.102	0.0850 to 0.115	95.1	70.0 to 130	3.30	20.0	
BD10188	Beryllium, Dissolved	mg/L	0.0000192	0.000880	0.100	0.104	0.104	0.104	0.0850 to 0.115	104	70.0 to 130	0.00	20.0	
BD10192	Beryllium, Total	mg/L	0.0000208	0.000880	0.100	0.108	0.105	0.108	0.0850 to 0.115	108	70.0 to 130	2.82	20.0	
BD10188	Boron, Dissolved	mg/L	-0.000312	0.0650	1.00	1.00	1.01	0.999	0.850 to 1.15	100	70.0 to 130	0.995	20.0	
BD10192	Boron, Total	mg/L	0.000086	0.0650	1.00	1.03	1.03	0.992	0.850 to 1.15	103	70.0 to 130	0.00	20.0	
BD10188	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0970	0.0985	0.0992	0.0850 to 0.115	96.9	70.0 to 130	1.53	20.0	
BD10192	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.0956	0.0966	0.0987	0.0850 to 0.115	95.6	70.0 to 130	1.04	20.0	
BD10188	Calcium, Dissolved	mg/L	-0.0112	0.152	5.00	13.3	13.2	4.78	4.25 to 5.75	94.0	70.0 to 130	0.755	20.0	
BD10192	Calcium, Total	mg/L	-0.0105	0.152	5.00	20.1	20.3	4.68	4.25 to 5.75	90.0	70.0 to 130	0.990	20.0	
BD10191	Chloride	mg/L	0.015	1.00	10.0	10.1	10.1	10.1	9.00 to 11.0	101	80.0 to 120	0.00	20.0	
BD10188	Chromium, Dissolved	mg/L	-0.0000160	0.000440	0.100	0.0967	0.102	0.0995	0.0850 to 0.115	96.4	70.0 to 130	5.33	20.0	
BD10192	Chromium, Total	mg/L	0.0000790	0.000440	0.100	0.0980	0.103	0.102	0.0850 to 0.115	97.8	70.0 to 130	4.98	20.0	
BD10188	Cobalt, Dissolved	mg/L	0.0000051	0.000147	0.100	0.0964	0.0999	0.0970	0.0850 to 0.115	95.9	70.0 to 130	3.57	20.0	
BD10192	Cobalt, Total	mg/L	-0.0000245	0.000147	0.100	0.100	0.104	0.102	0.0850 to 0.115	98.5	70.0 to 130	3.92	20.0	
BD10192	Fluoride	mg/L	0.0532	0.125	2.50	2.52	2.50	2.57	2.25 to 2.75	101	80.0 to 120	0.797	20.0	
BD10188	Iron, Dissolved	mg/L	-0.000531	0.0176	0.2	0.199	0.201	0.201	0.170 to 0.230	99.5	70.0 to 130	1.00	20.0	
BD10192	Iron, Total	mg/L	0.00251	0.0176	0.2	0.210	0.208	0.202	0.170 to 0.230	105	70.0 to 130	0.957	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 16:20

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-26 Dup

**Laboratory ID Number:** BD10188

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10188	Lead, Dissolved	mg/L	0.0000110	0.000147	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD10192	Lead, Total	mg/L	0.0000089	0.000147	0.100	0.103	0.104	0.109	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD10188	Lithium, Dissolved	mg/L	0.000393	0.0154	0.200	0.205	0.208	0.205	0.170 to 0.230	102	70.0 to 130	1.45	20.0
BD10192	Lithium, Total	mg/L	0.000619	0.0154	0.200	0.209	0.210	0.204	0.170 to 0.230	104	70.0 to 130	0.477	20.0
BD10188	Magnesium, Dissolved	mg/L	0.00300	0.0462	5.00	6.11	6.13	5.02	4.25 to 5.75	98.8	70.0 to 130	0.327	20.0
BD10192	Magnesium, Total	mg/L	0.00422	0.0462	5.00	7.08	7.16	4.92	4.25 to 5.75	97.6	70.0 to 130	1.12	20.0
BD10188	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.159	0.165	0.106	0.0850 to 0.115	102	70.0 to 130	3.70	20.0
BD10192	Manganese, Total	mg/L	0.000212	0.00033	0.100	0.103	0.109	0.104	0.0850 to 0.115	98.7	70.0 to 130	5.66	20.0
BD10192	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00392	0.00393	0.00388	0.00340 to 0.00460	98.0	70.0 to 130	0.255	20.0
BD10188	Molybdenum, Dissolved	mg/L	-0.000194	0.0100	0.2	0.203	0.203	0.205	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD10192	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.206	0.205	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BD10188	Potassium, Dissolved	mg/L	-0.00558	0.367	10.0	10.6	10.9	10.2	8.50 to 11.5	101	70.0 to 130	2.79	20.0
BD10192	Potassium, Total	mg/L	0.0144	0.367	10.0	11.0	11.5	10.5	8.50 to 11.5	101	70.0 to 130	4.44	20.0
BD10188	Selenium, Dissolved	mg/L	0.0000337	0.00100	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BD10192	Selenium, Total	mg/L	-0.0000314	0.00100	0.100	0.0943	0.0966	0.0988	0.0850 to 0.115	94.3	70.0 to 130	2.41	20.0
BD10188	Silicon, Dissolved	mg/L	0.000576	0.0440	1.00	6.21	6.23	1.02	0.850 to 1.15	105	70.0 to 130	0.322	20.0
BD10192	Silicon, Total	mg/L	0.00110	0.0440	1.00	5.36	5.37	1.01	0.850 to 1.15	104	70.0 to 130	0.186	20.0
BD10188	Sodium, Dissolved	mg/L	0.000224	0.0880	5.00	8.88	9.00	5.01	4.25 to 5.75	95.0	70.0 to 130	1.34	20.0
BD10192	Sodium, Total	mg/L	-0.000137	0.0880	5.00	21.5	21.7	4.84	4.25 to 5.75	96.0	70.0 to 130	0.926	20.0
BD10192	Sulfate	mg/L	-0.600	2.0	20.0	40.8	41.1	20.4	18.0 to 22.0	88.0	80.0 to 120	0.733	20.0
BD10188	Thallium, Dissolved	mg/L	0.0000077	0.000147	0.100	0.107	0.107	0.107	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD10192	Thallium, Total	mg/L	-0.0000771	0.000147	0.100	0.104	0.105	0.104	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD10192	Total Organic Carbon	mg/L	0.0796	1.00	10.0	10.2	10.3	22.3		89.1	80.0 to 120	0.976	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/30/23 16:20

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-26 Dup

**Laboratory ID Number:** BD10188

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10179	Alkalinity	mg CaCO3/L					119	51.0	45.0 to 55.0			1.67	10.0
BD10192	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.05	0.200	2.00	3.78	1.78	1.85	1.80 to 2.20	101	90.0 to 110	1.13	15.0
BD10190	Solids, Dissolved	mg/L	1.00	25.0			466	55.0	40.0 to 60.0			0.215	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-16

**Location Code:** WMWGREAP  
**Collected:** 5/31/23 08:40  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10189

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>			
* Boron, Total	6/2/23 11:34	6/6/23 17:45		1.015	2.09	mg/L	0.030000	0.1015	
* Calcium, Total	6/2/23 11:34	6/8/23 13:47		10.15	108	mg/L	0.70035	4.06	
* Iron, Total	6/2/23 11:34	6/8/23 13:47		10.15	17.3	mg/L	0.08120	0.406	
* Lithium, Total	6/2/23 11:34	6/6/23 17:45		1.015	0.603	mg/L	0.007105	0.01999956	
* Magnesium, Total	6/2/23 11:34	6/6/23 17:45		1.015	24.2	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 17:45		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 17:45		1	13.1	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 17:45		1.015	6.10	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/6/23 17:45		1.015	36.2	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>						
* Boron, Dissolved	6/1/23 12:45	6/6/23 14:44		1.015	2.11	mg/L	0.030000	0.1015	
* Calcium, Dissolved	6/1/23 12:45	6/6/23 15:35		10.15	111	mg/L	0.70035	4.06	
* Iron, Dissolved	6/1/23 12:45	6/6/23 15:35		10.15	16.4	mg/L	0.08120	0.406	
* Lithium, Dissolved	6/1/23 12:45	6/6/23 14:44		1.015	0.604	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 14:44		1.015	24.5	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 14:44		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 14:44		1	12.9	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 14:44		1.015	6.02	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 14:44		1.015	36.2	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>			
* Antimony, Total	6/2/23 11:34	6/2/23 16:09		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	6/2/23 11:34	6/2/23 16:09		1.015	0.0855	mg/L	0.000112	0.000203	
* Aluminum, Total	6/2/23 11:34	6/2/23 16:09		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	6/2/23 11:34	6/2/23 16:09		1.015	0.119	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 16:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/2/23 11:34	6/2/23 16:09		1.015	0.000327	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 16:09		1.015	0.0136	mg/L	0.000068	0.000203	
* Lead, Total	6/2/23 11:34	6/2/23 16:09		1.015	0.000145	mg/L	0.000068	0.000203	J
* Manganese, Total	6/2/23 11:34	6/2/23 17:02		5.075	3.45	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-16

**Location Code:** WMWGREAP  
**Collected:** 5/31/23 08:40  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10189

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 16:09		1.015	13.4	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 16:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 16:09		1.015	0.000316	mg/L	0.000068	0.000203	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 15:06		1.015	0.000765	mg/L	0.000710	0.001015	J
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 15:06		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 15:06		1.015	0.0567	mg/L	0.000112	0.000203	
* Barium, Dissolved	6/1/23 12:45	6/1/23 15:06		1.015	0.107	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 15:06		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 15:06		1.015	0.0000716	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	6/1/23 12:45	6/1/23 15:06		1.015	0.000232	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 15:06		1.015	0.0131	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 15:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/2/23 09:58		5.075	3.43	mg/L	0.000761	0.005075	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 15:06		1.015	13.3	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 15:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 15:06		1.015	0.000387	mg/L	0.000068	0.000203	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 20:49		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 16:41	6/1/23 16:41		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/13/23 10:24	6/13/23 11:15		1	395	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:50	6/5/23 14:00		1	502	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/13/23 10:24	6/13/23 11:15		1	394	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	6/13/23 10:24	6/13/23 11:15		1	0.774	mg CaCO3/L		0.5	A
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/5/23 21:32	6/5/23 21:32		1	1.50	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-16

**Location Code:** WMWGREAP

**Collected:** 5/31/23 08:40

**Customer ID:**

**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10189

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 10:13	6/8/23 10:13		1	8.96	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 11:23	6/9/23 11:23		1	0.284	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 11:43	6/7/23 11:43		2	42.8	mg/L	1.2	4	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/31/23 08:38	5/31/23 08:38			805.30	uS/cm			FA
pH	5/31/23 08:38	5/31/23 08:38			6.52	SU			FA
Temperature	5/31/23 08:38	5/31/23 08:38			19.53	C			FA
Turbidity	5/31/23 08:38	5/31/23 08:38			7.7	NTU			FA
Sulfide	5/31/23 08:38	5/31/23 08:38			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/31/23 08:40

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-16

**Laboratory ID Number:** BD10189

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD10192	Aluminum, Dissolved	mg/L	-0.000127	0.0198	0.100	0.111	0.112	0.105	0.0850 to 0.115	111	70.0 to 130	0.897	20.0
BD10192	Aluminum, Total	mg/L	0.000820	0.0198	0.100	0.108	0.114	0.104	0.0850 to 0.115	108	70.0 to 130	5.41	20.0
BD10192	Antimony, Dissolved	mg/L	0.000416	0.00100	0.100	0.106	0.107	0.0891	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD10192	Antimony, Total	mg/L	0.000492	0.00100	0.100	0.0976	0.100	0.0886	0.0850 to 0.115	97.6	70.0 to 130	2.43	20.0
BD10192	Arsenic, Dissolved	mg/L	0.0000882	0.000200	0.100	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD10192	Arsenic, Total	mg/L	0.0000042	0.000200	0.100	0.0997	0.103	0.102	0.0850 to 0.115	99.7	70.0 to 130	3.26	20.0
BD10192	Barium, Dissolved	mg/L	-0.0000053	0.00100	0.100	0.151	0.155	0.100	0.0850 to 0.115	97.8	70.0 to 130	2.61	20.0
BD10192	Barium, Total	mg/L	0.0000500	0.00100	0.100	0.149	0.154	0.102	0.0850 to 0.115	95.1	70.0 to 130	3.30	20.0
BD10192	Beryllium, Dissolved	mg/L	0.0000453	0.000880	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD10192	Beryllium, Total	mg/L	0.0000208	0.000880	0.100	0.108	0.105	0.108	0.0850 to 0.115	108	70.0 to 130	2.82	20.0
BD10192	Boron, Dissolved	mg/L	-0.000138	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD10192	Boron, Total	mg/L	0.000086	0.0650	1.00	1.03	1.03	0.992	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD10192	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0989	0.100	0.102	0.0850 to 0.115	98.9	70.0 to 130	1.11	20.0
BD10192	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.0956	0.0966	0.0987	0.0850 to 0.115	95.6	70.0 to 130	1.04	20.0
BD10192	Calcium, Dissolved	mg/L	-0.0106	0.152	5.00	20.4	21.0	4.69	4.25 to 5.75	82.0	70.0 to 130	2.90	20.0
BD10192	Calcium, Total	mg/L	-0.0105	0.152	5.00	20.1	20.3	4.68	4.25 to 5.75	90.0	70.0 to 130	0.990	20.0
BD10191	Chloride	mg/L	0.015	1.00	10.0	10.1	10.1	10.1	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BD10192	Chromium, Dissolved	mg/L	-0.0000180	0.000440	0.100	0.100	0.100	0.0989	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD10192	Chromium, Total	mg/L	0.0000790	0.000440	0.100	0.0980	0.103	0.102	0.0850 to 0.115	97.8	70.0 to 130	4.98	20.0
BD10192	Cobalt, Dissolved	mg/L	0.0000082	0.000147	0.100	0.0993	0.100	0.0977	0.0850 to 0.115	97.7	70.0 to 130	0.702	20.0
BD10192	Cobalt, Total	mg/L	-0.0000245	0.000147	0.100	0.100	0.104	0.102	0.0850 to 0.115	98.5	70.0 to 130	3.92	20.0
BD10192	Fluoride	mg/L	0.0532	0.125	2.50	2.52	2.50	2.57	2.25 to 2.75	101	80.0 to 120	0.797	20.0
BD10192	Iron, Dissolved	mg/L	-0.000743	0.0176	0.2	0.199	0.204	0.206	0.170 to 0.230	99.5	70.0 to 130	2.48	20.0
BD10192	Iron, Total	mg/L	0.00251	0.0176	0.2	0.210	0.208	0.202	0.170 to 0.230	105	70.0 to 130	0.957	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/31/23 08:40

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-16

**Laboratory ID Number:** BD10189

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BD10192	Lead, Dissolved	mg/L	0.0000139	0.000147	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD10192	Lead, Total	mg/L	0.0000089	0.000147	0.100	0.103	0.104	0.109	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD10192	Lithium, Dissolved	mg/L	0.000787	0.0154	0.200	0.208	0.206	0.210	0.170 to 0.230	104	70.0 to 130	0.966	20.0
BD10192	Lithium, Total	mg/L	0.000619	0.0154	0.200	0.209	0.210	0.204	0.170 to 0.230	104	70.0 to 130	0.477	20.0
BD10192	Magnesium, Dissolved	mg/L	-0.00455	0.0462	5.00	7.05	7.13	5.00	4.25 to 5.75	96.6	70.0 to 130	1.13	20.0
BD10192	Magnesium, Total	mg/L	0.00422	0.0462	5.00	7.08	7.16	4.92	4.25 to 5.75	97.6	70.0 to 130	1.12	20.0
BD10192	Manganese, Dissolved	mg/L	0.000115	0.00033	0.100	0.111	0.110	0.105	0.0850 to 0.115	107	70.0 to 130	0.905	20.0
BD10192	Manganese, Total	mg/L	0.000212	0.00033	0.100	0.103	0.109	0.104	0.0850 to 0.115	98.7	70.0 to 130	5.66	20.0
BD10192	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00392	0.00393	0.00388	0.00340 to 0.00460	98.0	70.0 to 130	0.255	20.0
BD10192	Molybdenum, Dissolved	mg/L	-0.000179	0.0100	0.2	0.204	0.206	0.206	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BD10192	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.206	0.205	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BD10192	Potassium, Dissolved	mg/L	-0.00925	0.367	10.0	11.0	11.1	10.2	8.50 to 11.5	101	70.0 to 130	0.905	20.0
BD10192	Potassium, Total	mg/L	0.0144	0.367	10.0	11.0	11.5	10.5	8.50 to 11.5	101	70.0 to 130	4.44	20.0
BD10192	Selenium, Dissolved	mg/L	0.0000224	0.00100	0.100	0.103	0.107	0.104	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BD10192	Selenium, Total	mg/L	-0.0000314	0.00100	0.100	0.0943	0.0966	0.0988	0.0850 to 0.115	94.3	70.0 to 130	2.41	20.0
BD10192	Silicon, Dissolved	mg/L	0.00186	0.0440	1.00	5.30	5.32	1.02	0.850 to 1.15	97.0	70.0 to 130	0.377	20.0
BD10192	Silicon, Total	mg/L	0.00110	0.0440	1.00	5.36	5.37	1.01	0.850 to 1.15	104	70.0 to 130	0.186	20.0
BD10192	Sodium, Dissolved	mg/L	0.000018	0.0880	5.00	22.0	21.8	5.02	4.25 to 5.75	94.0	70.0 to 130	0.913	20.0
BD10192	Sodium, Total	mg/L	-0.000137	0.0880	5.00	21.5	21.7	4.84	4.25 to 5.75	96.0	70.0 to 130	0.926	20.0
BD10192	Sulfate	mg/L	-0.600	2.0	20.0	40.8	41.1	20.4	18.0 to 22.0	88.0	80.0 to 120	0.733	20.0
BD10192	Thallium, Dissolved	mg/L	0.0000092	0.000147	0.100	0.109	0.107	0.110	0.0850 to 0.115	109	70.0 to 130	1.85	20.0
BD10192	Thallium, Total	mg/L	-0.0000771	0.000147	0.100	0.104	0.105	0.104	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD10192	Total Organic Carbon	mg/L	0.0796	1.00	10.0	10.2	10.3	22.3		89.1	80.0 to 120	0.976	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/31/23 08:40

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-16

**Laboratory ID Number:** BD10189

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BD10192	Alkalinity	mg CaCO3/L					48.1	50.2	45.0 to 55.0			1.03	10.0
BD10192	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.05	0.200	2.00	3.78	1.78	1.85	1.80 to 2.20	101	90.0 to 110	1.13	15.0
BD10189	Solids, Dissolved	mg/L	1.00	25.0			500	55.0	40.0 to 60.0			0.399	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-40H

**Location Code:** WMWGREAP  
**Collected:** 5/31/23 09:40  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10190

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 17:49		1.015	0.536	mg/L	0.030000	0.1015	
* Calcium, Total	6/2/23 11:34	6/8/23 13:57		10.15	90.2	mg/L	0.70035	4.06	
* Iron, Total	6/2/23 11:34	6/6/23 17:49		1.015	0.618	mg/L	0.008120	0.0406	
* Lithium, Total	6/2/23 11:34	6/6/23 17:49		1.015	0.738	mg/L	0.007105	0.01999956	
* Magnesium, Total	6/2/23 11:34	6/6/23 17:49		1.015	22.4	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 17:49		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 17:49		1	6.87	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 17:49		1.015	3.21	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/6/23 17:49		1.015	18.2	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	6/1/23 12:45	6/6/23 14:47		1.015	0.531	mg/L	0.030000	0.1015	
* Calcium, Dissolved	6/1/23 12:45	6/6/23 15:44		10.15	90.7	mg/L	0.70035	4.06	
* Iron, Dissolved	6/1/23 12:45	6/6/23 14:47		1.015	0.467	mg/L	0.008120	0.0406	
* Lithium, Dissolved	6/1/23 12:45	6/6/23 14:47		1.015	0.743	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 14:47		1.015	22.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 14:47		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 14:47		1	6.89	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 14:47		1.015	3.22	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 14:47		1.015	18.3	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 16:13		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	6/2/23 11:34	6/2/23 16:13		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	6/2/23 11:34	6/2/23 16:13		1.015	0.000308	mg/L	0.000112	0.000203	
* Barium, Total	6/2/23 11:34	6/2/23 16:13		1.015	0.0250	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 16:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 16:13		1.015	0.000157	mg/L	0.000068	0.000203	J
* Chromium, Total	6/2/23 11:34	6/2/23 16:13		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	6/2/23 11:34	6/2/23 16:13		1.015	0.0131	mg/L	0.000068	0.000203	
* Lead, Total	6/2/23 11:34	6/2/23 16:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 17:06		5.075	3.26	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-40H

**Location Code:** WMWGREAP

**Collected:** 5/31/23 09:40

**Customer ID:**

**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10190

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 16:13		1.015	9.07	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 16:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 16:13		1.015	0.0000759	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 15:09		1.015	0.000807	mg/L	0.000710	0.001015	J
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 15:09		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 15:09		1.015	0.000369	mg/L	0.000112	0.000203	
* Barium, Dissolved	6/1/23 12:45	6/1/23 15:09		1.015	0.0243	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 15:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 15:09		1.015	0.000162	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	6/1/23 12:45	6/1/23 15:09		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 15:09		1.015	0.0127	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 15:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/2/23 10:02		5.075	3.22	mg/L	0.000761	0.005075	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 15:09		1.015	9.02	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 15:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 15:09		1.015	0.000172	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 20:53		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 16:42	6/1/23 16:42		1	0.261	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/13/23 10:24	6/13/23 11:15		1	81.9	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:50	6/5/23 14:00		1	465	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/13/23 10:24	6/13/23 11:15		1	81.9	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/13/23 10:24	6/13/23 11:15		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/5/23 21:47	6/5/23 21:47		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-40H

**Location Code:** WMWGREAP

**Collected:** 5/31/23 09:40

**Customer ID:**

**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10190

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 10:14	6/8/23 10:14		1	6.63	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 11:24	6/9/23 11:24		1	0.105	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 11:45	6/7/23 11:45		16	251	mg/L	9.6	32	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/31/23 09:38	5/31/23 09:38			646.33	uS/cm			FA
pH	5/31/23 09:38	5/31/23 09:38			6.01	SU			FA
Temperature	5/31/23 09:38	5/31/23 09:38			18.43	C			FA
Turbidity	5/31/23 09:38	5/31/23 09:38			2.98	NTU			FA
Sulfide	5/31/23 09:38	5/31/23 09:38			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/31/23 09:40

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-40H

**Laboratory ID Number:** BD10190

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10192	Aluminum, Dissolved	mg/L	-0.000127	0.0198	0.100	0.111	0.112	0.105	0.0850 to 0.115	111	70.0 to 130	0.897	20.0
BD10192	Aluminum, Total	mg/L	0.000820	0.0198	0.100	0.108	0.114	0.104	0.0850 to 0.115	108	70.0 to 130	5.41	20.0
BD10192	Antimony, Dissolved	mg/L	0.000416	0.00100	0.100	0.106	0.107	0.0891	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD10192	Antimony, Total	mg/L	0.000492	0.00100	0.100	0.0976	0.100	0.0886	0.0850 to 0.115	97.6	70.0 to 130	2.43	20.0
BD10192	Arsenic, Dissolved	mg/L	0.0000882	0.000200	0.100	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD10192	Arsenic, Total	mg/L	0.0000042	0.000200	0.100	0.0997	0.103	0.102	0.0850 to 0.115	99.7	70.0 to 130	3.26	20.0
BD10192	Barium, Dissolved	mg/L	-0.0000053	0.00100	0.100	0.151	0.155	0.100	0.0850 to 0.115	97.8	70.0 to 130	2.61	20.0
BD10192	Barium, Total	mg/L	0.0000500	0.00100	0.100	0.149	0.154	0.102	0.0850 to 0.115	95.1	70.0 to 130	3.30	20.0
BD10192	Beryllium, Dissolved	mg/L	0.0000453	0.000880	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD10192	Beryllium, Total	mg/L	0.0000208	0.000880	0.100	0.108	0.105	0.108	0.0850 to 0.115	108	70.0 to 130	2.82	20.0
BD10192	Boron, Dissolved	mg/L	-0.000138	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD10192	Boron, Total	mg/L	0.000086	0.0650	1.00	1.03	1.03	0.992	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD10192	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0989	0.100	0.102	0.0850 to 0.115	98.9	70.0 to 130	1.11	20.0
BD10192	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.0956	0.0966	0.0987	0.0850 to 0.115	95.6	70.0 to 130	1.04	20.0
BD10192	Calcium, Dissolved	mg/L	-0.0106	0.152	5.00	20.4	21.0	4.69	4.25 to 5.75	82.0	70.0 to 130	2.90	20.0
BD10192	Calcium, Total	mg/L	-0.0105	0.152	5.00	20.1	20.3	4.68	4.25 to 5.75	90.0	70.0 to 130	0.990	20.0
BD10191	Chloride	mg/L	0.015	1.00	10.0	10.1	10.1	10.1	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BD10192	Chromium, Dissolved	mg/L	-0.0000180	0.000440	0.100	0.100	0.100	0.0989	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD10192	Chromium, Total	mg/L	0.0000790	0.000440	0.100	0.0980	0.103	0.102	0.0850 to 0.115	97.8	70.0 to 130	4.98	20.0
BD10192	Cobalt, Dissolved	mg/L	0.0000082	0.000147	0.100	0.0993	0.100	0.0977	0.0850 to 0.115	97.7	70.0 to 130	0.702	20.0
BD10192	Cobalt, Total	mg/L	-0.0000245	0.000147	0.100	0.100	0.104	0.102	0.0850 to 0.115	98.5	70.0 to 130	3.92	20.0
BD10192	Fluoride	mg/L	0.0532	0.125	2.50	2.52	2.50	2.57	2.25 to 2.75	101	80.0 to 120	0.797	20.0
BD10192	Iron, Dissolved	mg/L	-0.000743	0.0176	0.2	0.199	0.204	0.206	0.170 to 0.230	99.5	70.0 to 130	2.48	20.0
BD10192	Iron, Total	mg/L	0.00251	0.0176	0.2	0.210	0.208	0.202	0.170 to 0.230	105	70.0 to 130	0.957	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/31/23 09:40

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-40H

**Laboratory ID Number:** BD10190

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10192	Lead, Dissolved	mg/L	0.0000139	0.000147	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD10192	Lead, Total	mg/L	0.0000089	0.000147	0.100	0.103	0.104	0.109	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD10192	Lithium, Dissolved	mg/L	0.000787	0.0154	0.200	0.208	0.206	0.210	0.170 to 0.230	104	70.0 to 130	0.966	20.0
BD10192	Lithium, Total	mg/L	0.000619	0.0154	0.200	0.209	0.210	0.204	0.170 to 0.230	104	70.0 to 130	0.477	20.0
BD10192	Magnesium, Dissolved	mg/L	-0.00455	0.0462	5.00	7.05	7.13	5.00	4.25 to 5.75	96.6	70.0 to 130	1.13	20.0
BD10192	Magnesium, Total	mg/L	0.00422	0.0462	5.00	7.08	7.16	4.92	4.25 to 5.75	97.6	70.0 to 130	1.12	20.0
BD10192	Manganese, Dissolved	mg/L	0.000115	0.00033	0.100	0.111	0.110	0.105	0.0850 to 0.115	107	70.0 to 130	0.905	20.0
BD10192	Manganese, Total	mg/L	0.000212	0.00033	0.100	0.103	0.109	0.104	0.0850 to 0.115	98.7	70.0 to 130	5.66	20.0
BD10192	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00392	0.00393	0.00388	0.00340 to 0.00460	98.0	70.0 to 130	0.255	20.0
BD10192	Molybdenum, Dissolved	mg/L	-0.000179	0.0100	0.2	0.204	0.206	0.206	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BD10192	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.206	0.205	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BD10192	Potassium, Dissolved	mg/L	-0.00925	0.367	10.0	11.0	11.1	10.2	8.50 to 11.5	101	70.0 to 130	0.905	20.0
BD10192	Potassium, Total	mg/L	0.0144	0.367	10.0	11.0	11.5	10.5	8.50 to 11.5	101	70.0 to 130	4.44	20.0
BD10192	Selenium, Dissolved	mg/L	0.0000224	0.00100	0.100	0.103	0.107	0.104	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BD10192	Selenium, Total	mg/L	-0.0000314	0.00100	0.100	0.0943	0.0966	0.0988	0.0850 to 0.115	94.3	70.0 to 130	2.41	20.0
BD10192	Silicon, Dissolved	mg/L	0.00186	0.0440	1.00	5.30	5.32	1.02	0.850 to 1.15	97.0	70.0 to 130	0.377	20.0
BD10192	Silicon, Total	mg/L	0.00110	0.0440	1.00	5.36	5.37	1.01	0.850 to 1.15	104	70.0 to 130	0.186	20.0
BD10192	Sodium, Dissolved	mg/L	0.000018	0.0880	5.00	22.0	21.8	5.02	4.25 to 5.75	94.0	70.0 to 130	0.913	20.0
BD10192	Sodium, Total	mg/L	-0.000137	0.0880	5.00	21.5	21.7	4.84	4.25 to 5.75	96.0	70.0 to 130	0.926	20.0
BD10192	Sulfate	mg/L	-0.600	2.0	20.0	40.8	41.1	20.4	18.0 to 22.0	88.0	80.0 to 120	0.733	20.0
BD10192	Thallium, Dissolved	mg/L	0.0000092	0.000147	0.100	0.109	0.107	0.110	0.0850 to 0.115	109	70.0 to 130	1.85	20.0
BD10192	Thallium, Total	mg/L	-0.0000771	0.000147	0.100	0.104	0.105	0.104	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD10192	Total Organic Carbon	mg/L	0.0796	1.00	10.0	10.2	10.3	22.3		89.1	80.0 to 120	0.976	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/31/23 09:40

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-40H

**Laboratory ID Number:** BD10190

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10192	Alkalinity	mg CaCO3/L					48.1	50.2	45.0 to 55.0			1.03	10.0
BD10192	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.05	0.200	2.00	3.78	1.78	1.85	1.80 to 2.20	101	90.0 to 110	1.13	15.0
BD10190	Solids, Dissolved	mg/L	1.00	25.0			466	55.0	40.0 to 60.0			0.215	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-2

**Location Code:** WMWGREAPFB  
**Collected:** 5/31/23 10:40  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10191

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 17:52		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/2/23 11:34	6/6/23 17:52		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	6/2/23 11:34	6/6/23 17:52		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/2/23 11:34	6/6/23 17:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/2/23 11:34	6/6/23 17:52		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	6/2/23 11:34	6/6/23 17:52		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 17:52		1	Not Detected	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 17:52		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	6/2/23 11:34	6/6/23 17:52		1.015	Not Detected	mg/L	0.04060	0.406	U
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 16:16		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	6/2/23 11:34	6/2/23 16:16		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	6/2/23 11:34	6/2/23 16:16		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	6/2/23 11:34	6/2/23 16:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	6/2/23 11:34	6/2/23 16:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/2/23 11:34	6/2/23 16:16		1.015	0.000229	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	6/2/23 11:34	6/2/23 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 16:16		1.015	0.000269	mg/L	0.000152	0.001015	J
* Potassium, Total	6/2/23 11:34	6/2/23 16:16		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	6/2/23 11:34	6/2/23 16:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>			<b>Analyst: ELH</b>						
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 20:57		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>			<b>Analyst: SC</b>						
* Nitrogen, Nitrate/Nitrite	6/1/23 16:43	6/1/23 16:43		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2540C</b>			<b>Analyst: CNJ</b>						
* Solids, Dissolved	6/2/23 10:50	6/5/23 14:00		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-2

**Location Code:** WMWGREAPFB  
**Collected:** 5/31/23 10:40  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10191

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/5/23 22:02	6/5/23 22:02		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 10:16	6/8/23 10:16		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 11:26	6/9/23 11:26		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 11:39	6/7/23 11:39		1	0.615	mg/L	0.6	2	J

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/31/23 10:40

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond Field Blank-2

**Laboratory ID Number:** BD10191

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD10192	Aluminum, Total	mg/L	0.000820	0.0198	0.100	0.108	0.114	0.104	0.0850 to 0.115	108	70.0 to 130	5.41	20.0
BD10192	Antimony, Total	mg/L	0.000492	0.00100	0.100	0.0976	0.100	0.0886	0.0850 to 0.115	97.6	70.0 to 130	2.43	20.0
BD10192	Arsenic, Total	mg/L	0.0000042	0.000200	0.100	0.0997	0.103	0.102	0.0850 to 0.115	99.7	70.0 to 130	3.26	20.0
BD10192	Barium, Total	mg/L	0.0000500	0.00100	0.100	0.149	0.154	0.102	0.0850 to 0.115	95.1	70.0 to 130	3.30	20.0
BD10192	Beryllium, Total	mg/L	0.0000208	0.000880	0.100	0.108	0.105	0.108	0.0850 to 0.115	108	70.0 to 130	2.82	20.0
BD10192	Boron, Total	mg/L	0.000086	0.0650	1.00	1.03	1.03	0.992	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD10192	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.0956	0.0966	0.0987	0.0850 to 0.115	95.6	70.0 to 130	1.04	20.0
BD10192	Calcium, Total	mg/L	-0.0105	0.152	5.00	20.1	20.3	4.68	4.25 to 5.75	90.0	70.0 to 130	0.990	20.0
BD10191	Chloride	mg/L	0.015	1.00	10.0	10.1	10.1	10.1	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BD10192	Chromium, Total	mg/L	0.0000790	0.000440	0.100	0.0980	0.103	0.102	0.0850 to 0.115	97.8	70.0 to 130	4.98	20.0
BD10192	Cobalt, Total	mg/L	-0.0000245	0.000147	0.100	0.100	0.104	0.102	0.0850 to 0.115	98.5	70.0 to 130	3.92	20.0
BD10192	Fluoride	mg/L	0.0532	0.125	2.50	2.52	2.50	2.57	2.25 to 2.75	101	80.0 to 120	0.797	20.0
BD10192	Iron, Total	mg/L	0.00251	0.0176	0.2	0.210	0.208	0.202	0.170 to 0.230	105	70.0 to 130	0.957	20.0
BD10192	Lead, Total	mg/L	0.0000089	0.000147	0.100	0.103	0.104	0.109	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD10192	Lithium, Total	mg/L	0.000619	0.0154	0.200	0.209	0.210	0.204	0.170 to 0.230	104	70.0 to 130	0.477	20.0
BD10192	Magnesium, Total	mg/L	0.00422	0.0462	5.00	7.08	7.16	4.92	4.25 to 5.75	97.6	70.0 to 130	1.12	20.0
BD10192	Manganese, Total	mg/L	0.000212	0.00033	0.100	0.103	0.109	0.104	0.0850 to 0.115	98.7	70.0 to 130	5.66	20.0
BD10192	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00392	0.00393	0.00388	0.00340 to 0.00460	98.0	70.0 to 130	0.255	20.0
BD10192	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.206	0.205	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BD10192	Potassium, Total	mg/L	0.0144	0.367	10.0	11.0	11.5	10.5	8.50 to 11.5	101	70.0 to 130	4.44	20.0
BD10192	Selenium, Total	mg/L	-0.0000314	0.00100	0.100	0.0943	0.0966	0.0988	0.0850 to 0.115	94.3	70.0 to 130	2.41	20.0
BD10192	Silicon, Total	mg/L	0.00110	0.0440	1.00	5.36	5.37	1.01	0.850 to 1.15	104	70.0 to 130	0.186	20.0
BD10192	Sodium, Total	mg/L	-0.000137	0.0880	5.00	21.5	21.7	4.84	4.25 to 5.75	96.0	70.0 to 130	0.926	20.0
BD10192	Sulfate	mg/L	-0.600	2.0	20.0	40.8	41.1	20.4	18.0 to 22.0	88.0	80.0 to 120	0.733	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/31/23 10:40

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond Field Blank-2

**Laboratory ID Number:** BD10191

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD10192	Thallium, Total	mg/L	-0.0000771	0.000147	0.100	0.104	0.105	0.104	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD10192	Total Organic Carbon	mg/L	0.0796	1.00	10.0	10.2	10.3	22.3		89.1	80.0 to 120	0.976	20.0

**Comments:**



## Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/31/23 10:40

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond Field Blank-2

**Laboratory ID Number:** BD10191

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10192	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.05	0.200	2.00	3.78	1.78	1.85	1.80 to 2.20	101	90.0 to 110	1.13	15.0
BD10190	Solids, Dissolved	mg/L	1.00	25.0			466	55.0	40.0 to 60.0			0.215	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-34HA

**Location Code:** WMWGREAP  
**Collected:** 5/31/23 10:55  
**Customer ID:**  
**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10192

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	6/2/23 11:34	6/6/23 17:55		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/2/23 11:34	6/6/23 17:55		1.015	15.6	mg/L	0.070035	0.406	
* Iron, Total	6/2/23 11:34	6/6/23 17:55		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/2/23 11:34	6/6/23 17:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/2/23 11:34	6/6/23 17:55		1.015	2.20	mg/L	0.021315	0.406	
* Molybdenum, Total	6/2/23 11:34	6/6/23 17:55		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	6/2/23 11:34	6/6/23 17:55		1	9.24	mg/L			
* Silicon, Total	6/2/23 11:34	6/6/23 17:55		1.015	4.32	mg/L	0.02030	0.25375	
* Sodium, Total	6/2/23 11:34	6/6/23 17:55		1.015	16.7	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>						
* Boron, Dissolved	6/1/23 12:45	6/6/23 14:50		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	6/1/23 12:45	6/6/23 14:50		1.015	16.3	mg/L	0.070035	0.406	
* Iron, Dissolved	6/1/23 12:45	6/6/23 14:50		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	6/1/23 12:45	6/6/23 14:50		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	6/1/23 12:45	6/6/23 14:50		1.015	2.22	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	6/1/23 12:45	6/6/23 14:50		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	6/1/23 12:45	6/6/23 14:50		1	9.27	mg/L			
* Silicon, Dissolved	6/1/23 12:45	6/6/23 14:50		1.015	4.33	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/1/23 12:45	6/6/23 14:50		1.015	17.3	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	6/2/23 11:34	6/2/23 16:20		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	6/2/23 11:34	6/2/23 16:20		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	6/2/23 11:34	6/2/23 16:20		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	6/2/23 11:34	6/2/23 16:20		1.015	0.0539	mg/L	0.000508	0.001015	
* Beryllium, Total	6/2/23 11:34	6/2/23 16:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/2/23 11:34	6/2/23 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/2/23 11:34	6/2/23 16:20		1.015	0.000236	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/2/23 11:34	6/2/23 16:20		1.015	0.00151	mg/L	0.000068	0.000203	
* Lead, Total	6/2/23 11:34	6/2/23 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/2/23 11:34	6/2/23 16:20		1.015	0.00428	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-34HA

**Location Code:** WMWGREAP

**Collected:** 5/31/23 10:55

**Customer ID:**

**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10192

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	6/2/23 11:34	6/2/23 16:20		1.015	0.916	mg/L	0.169505	0.5075	
* Selenium, Total	6/2/23 11:34	6/2/23 16:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/2/23 11:34	6/2/23 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	6/1/23 12:45	6/1/23 15:13		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	6/1/23 12:45	6/1/23 15:13		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	6/1/23 12:45	6/1/23 15:13		1.015	0.000192	mg/L	0.000112	0.000203	J
* Barium, Dissolved	6/1/23 12:45	6/1/23 15:13		1.015	0.0532	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/1/23 12:45	6/1/23 15:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/1/23 12:45	6/1/23 15:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	6/1/23 12:45	6/1/23 15:13		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	6/1/23 12:45	6/1/23 15:13		1.015	0.00161	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/1/23 12:45	6/1/23 15:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/1/23 12:45	6/1/23 15:13		1.015	0.00402	mg/L	0.000152	0.001015	
* Potassium, Dissolved	6/1/23 12:45	6/1/23 15:13		1.015	0.921	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/1/23 12:45	6/1/23 15:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/1/23 12:45	6/1/23 15:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	6/6/23 14:38	6/6/23 21:01		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	6/1/23 16:43	6/1/23 16:43		1	1.76	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	6/13/23 10:24	6/13/23 11:15		1	48.6	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	6/2/23 10:50	6/5/23 14:00		1	116	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	6/13/23 10:24	6/13/23 11:15		1	48.6	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	6/13/23 10:24	6/13/23 11:15		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	6/5/23 22:17	6/5/23 22:17		1	1.29	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-34HA

**Location Code:** WMWGREAP

**Collected:** 5/31/23 10:55

**Customer ID:**

**Submittal Date:** 6/1/23 09:32

**Laboratory ID Number:** BD10192

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	6/8/23 10:27	6/8/23 10:27		1	6.86	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	6/9/23 11:27	6/9/23 11:27		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/7/23 11:40	6/7/23 11:40		1	23.2	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/31/23 10:53	5/31/23 10:53			170.55	uS/cm			FA
pH	5/31/23 10:53	5/31/23 10:53			5.63	SU			FA
Temperature	5/31/23 10:53	5/31/23 10:53			21.48	C			FA
Turbidity	5/31/23 10:53	5/31/23 10:53			1.22	NTU			FA
Sulfide	5/31/23 10:53	5/31/23 10:53			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/31/23 10:55

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-34HA

**Laboratory ID Number:** BD10192

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD10192	Aluminum, Dissolved	mg/L	-0.000127	0.0198	0.100	0.111	0.112	0.105	0.0850 to 0.115	111	70.0 to 130	0.897	20.0	
BD10192	Aluminum, Total	mg/L	0.000820	0.0198	0.100	0.108	0.114	0.104	0.0850 to 0.115	108	70.0 to 130	5.41	20.0	
BD10192	Antimony, Dissolved	mg/L	0.000416	0.00100	0.100	0.106	0.107	0.0891	0.0850 to 0.115	106	70.0 to 130	0.939	20.0	
BD10192	Antimony, Total	mg/L	0.000492	0.00100	0.100	0.0976	0.100	0.0886	0.0850 to 0.115	97.6	70.0 to 130	2.43	20.0	
BD10192	Arsenic, Dissolved	mg/L	0.0000882	0.000200	0.100	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0	
BD10192	Arsenic, Total	mg/L	0.0000042	0.000200	0.100	0.0997	0.103	0.102	0.0850 to 0.115	99.7	70.0 to 130	3.26	20.0	
BD10192	Barium, Dissolved	mg/L	-0.0000053	0.00100	0.100	0.151	0.155	0.100	0.0850 to 0.115	97.8	70.0 to 130	2.61	20.0	
BD10192	Barium, Total	mg/L	0.0000500	0.00100	0.100	0.149	0.154	0.102	0.0850 to 0.115	95.1	70.0 to 130	3.30	20.0	
BD10192	Beryllium, Dissolved	mg/L	0.0000453	0.000880	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0	
BD10192	Beryllium, Total	mg/L	0.0000208	0.000880	0.100	0.108	0.105	0.108	0.0850 to 0.115	108	70.0 to 130	2.82	20.0	
BD10192	Boron, Dissolved	mg/L	-0.000138	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0	
BD10192	Boron, Total	mg/L	0.000086	0.0650	1.00	1.03	1.03	0.992	0.850 to 1.15	103	70.0 to 130	0.00	20.0	
BD10192	Cadmium, Dissolved	mg/L	0.0000060	0.000147	0.100	0.0989	0.100	0.102	0.0850 to 0.115	98.9	70.0 to 130	1.11	20.0	
BD10192	Cadmium, Total	mg/L	-0.0000002	0.000147	0.100	0.0956	0.0966	0.0987	0.0850 to 0.115	95.6	70.0 to 130	1.04	20.0	
BD10192	Calcium, Dissolved	mg/L	-0.0106	0.152	5.00	20.4	21.0	4.69	4.25 to 5.75	82.0	70.0 to 130	2.90	20.0	
BD10192	Calcium, Total	mg/L	-0.0105	0.152	5.00	20.1	20.3	4.68	4.25 to 5.75	90.0	70.0 to 130	0.990	20.0	
BD10192	Chloride	mg/L	-0.00719	1.00	10.0	17.0	17.0	10.1	9.00 to 11.0	101	80.0 to 120	0.00	20.0	
BD10192	Chromium, Dissolved	mg/L	-0.0000180	0.000440	0.100	0.100	0.100	0.0989	0.0850 to 0.115	100	70.0 to 130	0.00	20.0	
BD10192	Chromium, Total	mg/L	0.0000790	0.000440	0.100	0.0980	0.103	0.102	0.0850 to 0.115	97.8	70.0 to 130	4.98	20.0	
BD10192	Cobalt, Dissolved	mg/L	0.0000082	0.000147	0.100	0.0993	0.100	0.0977	0.0850 to 0.115	97.7	70.0 to 130	0.702	20.0	
BD10192	Cobalt, Total	mg/L	-0.0000245	0.000147	0.100	0.100	0.104	0.102	0.0850 to 0.115	98.5	70.0 to 130	3.92	20.0	
BD10192	Fluoride	mg/L	0.0532	0.125	2.50	2.52	2.50	2.57	2.25 to 2.75	101	80.0 to 120	0.797	20.0	
BD10192	Iron, Dissolved	mg/L	-0.000743	0.0176	0.2	0.199	0.204	0.206	0.170 to 0.230	99.5	70.0 to 130	2.48	20.0	
BD10192	Iron, Total	mg/L	0.00251	0.0176	0.2	0.210	0.208	0.202	0.170 to 0.230	105	70.0 to 130	0.957	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/31/23 10:55

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-34HA

**Laboratory ID Number:** BD10192

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD10192	Lead, Dissolved	mg/L	0.0000139	0.000147	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD10192	Lead, Total	mg/L	0.0000089	0.000147	0.100	0.103	0.104	0.109	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD10192	Lithium, Dissolved	mg/L	0.000787	0.0154	0.200	0.208	0.206	0.210	0.170 to 0.230	104	70.0 to 130	0.966	20.0
BD10192	Lithium, Total	mg/L	0.000619	0.0154	0.200	0.209	0.210	0.204	0.170 to 0.230	104	70.0 to 130	0.477	20.0
BD10192	Magnesium, Dissolved	mg/L	-0.00455	0.0462	5.00	7.05	7.13	5.00	4.25 to 5.75	96.6	70.0 to 130	1.13	20.0
BD10192	Magnesium, Total	mg/L	0.00422	0.0462	5.00	7.08	7.16	4.92	4.25 to 5.75	97.6	70.0 to 130	1.12	20.0
BD10192	Manganese, Dissolved	mg/L	0.000115	0.00033	0.100	0.111	0.110	0.105	0.0850 to 0.115	107	70.0 to 130	0.905	20.0
BD10192	Manganese, Total	mg/L	0.000212	0.00033	0.100	0.103	0.109	0.104	0.0850 to 0.115	98.7	70.0 to 130	5.66	20.0
BD10192	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00392	0.00393	0.00388	0.00340 to 0.00460	98.0	70.0 to 130	0.255	20.0
BD10192	Molybdenum, Dissolved	mg/L	-0.000179	0.0100	0.2	0.204	0.206	0.206	0.170 to 0.230	102	70.0 to 130	0.976	20.0
BD10192	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.206	0.205	0.170 to 0.230	104	70.0 to 130	0.484	20.0
BD10192	Potassium, Dissolved	mg/L	-0.00925	0.367	10.0	11.0	11.1	10.2	8.50 to 11.5	101	70.0 to 130	0.905	20.0
BD10192	Potassium, Total	mg/L	0.0144	0.367	10.0	11.0	11.5	10.5	8.50 to 11.5	101	70.0 to 130	4.44	20.0
BD10192	Selenium, Dissolved	mg/L	0.0000224	0.00100	0.100	0.103	0.107	0.104	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BD10192	Selenium, Total	mg/L	-0.0000314	0.00100	0.100	0.0943	0.0966	0.0988	0.0850 to 0.115	94.3	70.0 to 130	2.41	20.0
BD10192	Silicon, Dissolved	mg/L	0.00186	0.0440	1.00	5.30	5.32	1.02	0.850 to 1.15	97.0	70.0 to 130	0.377	20.0
BD10192	Silicon, Total	mg/L	0.00110	0.0440	1.00	5.36	5.37	1.01	0.850 to 1.15	104	70.0 to 130	0.186	20.0
BD10192	Sodium, Dissolved	mg/L	0.000018	0.0880	5.00	22.0	21.8	5.02	4.25 to 5.75	94.0	70.0 to 130	0.913	20.0
BD10192	Sodium, Total	mg/L	-0.000137	0.0880	5.00	21.5	21.7	4.84	4.25 to 5.75	96.0	70.0 to 130	0.926	20.0
BD10192	Sulfate	mg/L	-0.600	2.0	20.0	40.8	41.1	20.4	18.0 to 22.0	88.0	80.0 to 120	0.733	20.0
BD10192	Thallium, Dissolved	mg/L	0.0000092	0.000147	0.100	0.109	0.107	0.110	0.0850 to 0.115	109	70.0 to 130	1.85	20.0
BD10192	Thallium, Total	mg/L	-0.0000771	0.000147	0.100	0.104	0.105	0.104	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BD10192	Total Organic Carbon	mg/L	0.0796	1.00	10.0	10.2	10.3	22.3		89.1	80.0 to 120	0.976	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/31/23 10:55

**Customer ID:**

**Delivery Date:** 6/1/23 09:32

**Description:** Greene County Ash Pond - MW-34HA

**Laboratory ID Number:** BD10192

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD10192	Alkalinity	mg CaCO3/L					48.1	50.2	45.0 to 55.0			1.03	10.0
BD10192	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.05	0.200	2.00	3.78	1.78	1.85	1.80 to 2.20	101	90.0 to 110	1.13	15.0
BD10190	Solids, Dissolved	mg/L	1.00	25.0			466	55.0	40.0 to 60.0			0.215	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

**Project Number:** WMWGREAP\_1410

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
A	Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are estimates due to pH>10SU and/or TDS>500mg/L.
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.





# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Anthony Goggins	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments: Relinquish to Biology Shipping lab 05172023 AWG

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-44H	05/16/2023	08:28	6	Groundwater		BD09404	<input checked="" type="checkbox"/>
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Relinquished By	Received By	Date/Time
	Brooke Caton <small>Digitally signed by Brooke Caton Date: 2023.05.18 10:56:51 -05'00'</small>	05/18/2023 10:56

SmarTroll ID	7586-41446-5-5	Cooler Temp	2.7 °C
Turbidity ID	9830-57039-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1410	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-1	05/16/2023	08:19	6	Groundwater		BD09405	<input checked="" type="checkbox"/>
MW-11	05/17/2023	13:35	6	Groundwater		BD09406	<input checked="" type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>M. Dyer</i>	<i>B. Brooks</i>	05/18/2023 10:09

SmarTroll ID	7586-41443-5-2	Cooler Temp	2.7 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1410	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: TJ Daugherty		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-23	05/16/2023	08:38	6	Groundwater		BD09407	<input checked="" type="checkbox"/>
MW-24	05/16/2023	11:05	6	Groundwater		BD09408	<input checked="" type="checkbox"/>
PZ-4	05/17/2023	08:53	6	Groundwater		BD09409	<input checked="" type="checkbox"/>
MW-2	05/17/2023	10:03	6	Groundwater		BD09410	<input checked="" type="checkbox"/>
MW-5	05/17/2023	11:00	6	Groundwater		BD09411	<input checked="" type="checkbox"/>
FB-1	05/17/2023	11:30	5	Field Blank		BD09412	<input checked="" type="checkbox"/>
MW-17	05/17/2023	13:30	6	Groundwater		BD09413	<input checked="" type="checkbox"/>
MW-17 Dup	05/17/2023	13:30	6	Sample Duplicate		BD09414	<input checked="" type="checkbox"/>
MW-3	05/17/2023	14:55	6	Groundwater		BD09415	<input checked="" type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Bushy Cotton</i>	05/18/2023 10:28

SmarTroll ID	7586-41445-5-4	Cooler Temp	1.7 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1410	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab




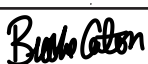
Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector		TJ Daugherty
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-36H	05/22/2023	12:33	6	Groundwater		BD09710	<input checked="" type="checkbox"/>
MW-18	05/22/2023	13:33	6	Groundwater		BD09711	<input checked="" type="checkbox"/>
MW-45H	05/22/2023	15:00	6	Groundwater		BD09712	<input checked="" type="checkbox"/>
MW-37H	05/23/2023	09:10	6	Groundwater		BD09713	<input checked="" type="checkbox"/>
MW-38H	05/23/2023	10:40	6	Groundwater		BD09714	<input checked="" type="checkbox"/>
MW-15	05/23/2023	13:40	6	Groundwater		BD09715	<input checked="" type="checkbox"/>
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Relinquished By	Received By	Date/Time
		05/23/2023 15:30
		05/24/2023 10:19

SmarTroll ID	7586-41445-5-4	Cooler Temp	1.0 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1410	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Anthony Goggins		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-32	05/22/2023	14:55	6	Groundwater		BD09716	<input checked="" type="checkbox"/>
MW-33	05/22/2023	15:43	6	Groundwater		BD09717	<input checked="" type="checkbox"/>
MW-33 Dup	05/22/2023	15:43	6	Sample Duplicate		BD09718	<input checked="" type="checkbox"/>
MW-31	05/23/2023	09:27	6	Groundwater		BD09719	<input checked="" type="checkbox"/>
MW-35H	05/23/2023	10:32	6	Groundwater		BD09720	<input checked="" type="checkbox"/>
MW-57H	05/23/2023	13:42	6	Groundwater		BD09721	<input checked="" type="checkbox"/>
MW-57H Dup	05/23/2023	13:42	6	Sample Duplicate		BD09722	<input checked="" type="checkbox"/>
MW-54H	05/23/2023	14:40	6	Groundwater		BD09723	<input checked="" type="checkbox"/>
FB-3	05/23/2023	15:05	5	Field Blank		BD09724	<input checked="" type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Brian Carter</i>	05/24/2023 10:20

SmarTroll ID	7586-41446-5-5	Cooler Temp	1.0 °C
Turbidity ID	9830-57039-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1410	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-10	05/24/2023	08:44	6	Groundwater		BD09875	<input checked="" type="checkbox"/>
MW-14	05/24/2023	10:16	6	Groundwater		BD09876	<input checked="" type="checkbox"/>
MW-39H	05/24/2023	11:23	6	Groundwater		BD09877	<input checked="" type="checkbox"/>
MW-43H	05/24/2023	13:58	6	Groundwater		BD09878	<input checked="" type="checkbox"/>
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Relinquished By	Received By	Date/Time
	Renee Jernigan <small>Digitally signed by Renee Jernigan Date: 2023.05.25 11:16:42 -05'00'</small>	05/25/2023 11:16

SmarTroll ID	7586-41443-5-2	Cooler Temp	0.4 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1410	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector		Dallas Gentry
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-42H	05/30/2023	12:32	6	Groundwater		BD10173	<input checked="" type="checkbox"/>
MW-49H	05/30/2023	13:22	6	Groundwater		BD10174	<input checked="" type="checkbox"/>
FB-5	05/30/2023	13:40	5	Field Blank		BD10175	<input checked="" type="checkbox"/>
MW-48H	05/30/2023	14:28	6	Groundwater		BD10176	<input checked="" type="checkbox"/>
MW-48H dup	05/30/2023	14:28	6	Sample Duplicate		BD10177	<input checked="" type="checkbox"/>
MW-21	05/30/2023	15:36	6	Groundwater		BD10178	<input checked="" type="checkbox"/>
MW-12	05/30/2023	16:20	6	Groundwater		BD10179	<input checked="" type="checkbox"/>
MW-13	05/31/2023	08:44	6	Groundwater		BD10180	<input checked="" type="checkbox"/>
MW-41H	05/31/2023	09:55	6	Groundwater		BD10181	<input checked="" type="checkbox"/>
EB-1	05/31/2023	10:45	5	Equipment Blank		BD10182	<input checked="" type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Dustin Brooks</i>	06/01/2023 09:02

SmarTroll ID	7586-41443-5-2	Cooler Temp	1.3 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1410	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine		Results To	Dustin Brooks, Greg Dyer	
	Collector Anthony Goggins			Requested By Greg Dyer	
			Location Greene Ash Pond		

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
FB-4	05/30/2023	12:30	5	Field Blank		BD10166	<input checked="" type="checkbox"/>
MW-53H	05/30/2023	13:46	6	Groundwater		BD10167	<input checked="" type="checkbox"/>
MW-6	05/30/2023	14:33	6	Groundwater		BD10168	<input checked="" type="checkbox"/>
MW-7	05/30/2023	15:12	6	Groundwater		BD10169	<input checked="" type="checkbox"/>
MW-8	05/30/2023	15:48	6	Groundwater		BD10170	<input checked="" type="checkbox"/>
MW-9	05/30/2023	16:26	6	Groundwater		BD10171	<input checked="" type="checkbox"/>
MW-25	05/30/2023	17:17	6	Groundwater		BD10172	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Burke Cotton</i>	06/01/2023 09:03
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

SmarTroll ID	7586-41446-5-5	Cooler Temp	1.0 °C
Turbidity ID	9830-57039-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1410	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks





# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: TJ Daugherty		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-30	05/30/2023	12:05	6	Groundwater		BD10183	<input checked="" type="checkbox"/>
MW-29	05/30/2023	13:18	6	Groundwater		BD10184	<input checked="" type="checkbox"/>
MW-28	05/30/2023	14:38	6	Groundwater		BD10185	<input checked="" type="checkbox"/>
MW-27	05/30/2023	15:33	6	Groundwater		BD10186	<input checked="" type="checkbox"/>
MW-26	05/30/2023	16:20	6	Groundwater		BD10187	<input checked="" type="checkbox"/>
MW-26 Dup	05/30/2023	16:20	6	Sample Duplicate		BD10188	<input checked="" type="checkbox"/>
MW-16	05/31/2023	08:40	6	Groundwater		BD10189	<input checked="" type="checkbox"/>
MW-40H	05/31/2023	09:40	6	Groundwater		BD10190	<input checked="" type="checkbox"/>
FB-2	05/31/2023	10:40	5	Field Blank		BD10191	<input checked="" type="checkbox"/>
MW-34HA	05/31/2023	10:55	6	Groundwater		BD10192	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Burke Carter</i>	06/01/2023 09:01

SmarTroll ID	7586-41445-5-4	Cooler Temp	1.1 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1410	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



**Chain of Custody**  
**Groundwater**  
APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date Collector	Routine	Results To	Dustin Brooks, Greg Dyer
	Anthony Goggins	Requested By	Greg Dyer
		Location	Greene Ash Pond
Bottles			
1	Radium	1 L	
2	N/A	N/A	
3	N/A	N/A	
4	N/A	N/A	
5	N/A	N/A	
6	N/A	N/A	
7	N/A	N/A	
8	N/A	N/A	
Comments: Relinquish to Biology Shipping Lab 05172023 AWG			

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-44H	05/16/2023	08:28	1	Groundwater		BD09416	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
	<b>Brooke Caton</b> <small>Digitally signed by Brooke Caton Date: 2023.05.18 10:56:38 -05'00'</small>	05/18/2023 10:56

SmarTroll ID	7586-41446-5-5	Cooler Temp	N/A
Turbidity ID	9830-57039-1-1	Thermometer ID	N/A
Sample Event	1410	pH Strip ID	10429-60252-10-8



# Chain of Custody Groundwater APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1 Radium	N/A	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	1 L	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-1	05/16/2023	08:19	1	Groundwater		BD09417	<input checked="" type="checkbox"/>
MW-11	05/17/2023	13:35	1	Groundwater		BD09418	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>Mel Dyer</i>	<i>Bruce Cotton</i>	05/18/2023 10:09

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1410	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector		TJ Daugherty
		Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Rad MS/MSD @ MW-5

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-23	05/16/2023	08:38	1	Groundwater		BD09419	<input checked="" type="checkbox"/>
MW-24	05/16/2023	11:05	1	Groundwater		BD09420	<input checked="" type="checkbox"/>
PZ-4	05/17/2023	08:53	1	Groundwater		BD09421	<input checked="" type="checkbox"/>
MW-2	05/17/2023	10:03	1	Groundwater		BD09422	<input checked="" type="checkbox"/>
MW-5	05/17/2023	11:00	3	Groundwater		BD09423	<input checked="" type="checkbox"/>
FB-1	05/17/2023	11:30	1	Field Blank		BD09424	<input checked="" type="checkbox"/>
MW-17	05/17/2023	13:30	1	Groundwater		BD09425	<input checked="" type="checkbox"/>
MW-17 Dup	05/17/2023	13:30	1	Sample Duplicate		BD09426	<input checked="" type="checkbox"/>
MW-3	05/17/2023	14:55	1	Groundwater		BD09427	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Bushy Allen</i>	05/18/2023 10:28

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1410	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-36H	05/22/2023	12:33	1	Groundwater		BD09725	<input checked="" type="checkbox"/>
MW-18	05/22/2023	13:33	1	Groundwater		BD09726	<input checked="" type="checkbox"/>
MW-45H	05/22/2023	15:00	1	Groundwater		BD09727	<input checked="" type="checkbox"/>
MW-37H	05/23/2023	09:10	1	Groundwater		BD09728	<input checked="" type="checkbox"/>
MW-38H	05/23/2023	10:40	1	Groundwater		BD09729	<input checked="" type="checkbox"/>
MW-15	05/23/2023	13:40	1	Groundwater		BD09730	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
		05/23/2023 15:30
		05/24/2023 10:18

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1410	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Anthony Goggins		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: MS/MSD collected @ MW-54H and MW-32

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-32	05/22/2023	14:55	3	Groundwater		BD09731	<input checked="" type="checkbox"/>
MW-33	05/22/2023	15:43	1	Groundwater		BD09732	<input checked="" type="checkbox"/>
MW-33 Dup	05/22/2023	15:43	1	Sample Duplicate		BD09733	<input checked="" type="checkbox"/>
MW-31	05/23/2023	09:27	1	Groundwater		BD09734	<input checked="" type="checkbox"/>
MW-35H	05/23/2023	10:32	1	Groundwater		BD09735	<input checked="" type="checkbox"/>
MW-57H	05/23/2023	13:42	1	Groundwater		BD09736	<input checked="" type="checkbox"/>
MW-57H Dup	05/23/2023	13:42	1	Sample Duplicate		BD09737	<input checked="" type="checkbox"/>
MW-54H	05/23/2023	14:40	3	Groundwater		BD09738	<input checked="" type="checkbox"/>
FB-3	05/23/2023	15:05	1	Field Blank		BD09739	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Dustin Brooks</i>	05/24/2023 10:19

SmarTroll ID	7586-41446-5-5	Cooler Temp	N/A
Turbidity ID	9830-57039-1-1	Thermometer ID	N/A
Sample Event	1410	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector		Dallas Gentry
		Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-10	05/24/2023	08:44	1	Groundwater		BD09879	<input checked="" type="checkbox"/>
MW-14	05/24/2023	10:16	1	Groundwater		BD09880	<input checked="" type="checkbox"/>
MW-39H	05/24/2023	11:23	1	Groundwater		BD09881	<input checked="" type="checkbox"/>
MW-43H	05/24/2023	13:58	1	Groundwater		BD09882	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
		05/25/2023 10:09

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1410	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector		Dallas Gentry
		Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-42H	05/30/2023	12:32	1	Groundwater		BD10200	<input checked="" type="checkbox"/>
MW-49H	05/30/2023	13:22	1	Groundwater		BD10201	<input checked="" type="checkbox"/>
FB-5	05/30/2023	13:40	1	Field Blank		BD10202	<input checked="" type="checkbox"/>
MW-48H	05/30/2023	14:28	1	Groundwater		BD10203	<input checked="" type="checkbox"/>
MW-48H dup	05/30/2023	14:28	1	Sample Duplicate		BD10204	<input checked="" type="checkbox"/>
MW-21	05/30/2023	15:36	1	Groundwater		BD10205	<input checked="" type="checkbox"/>
MW-12	05/30/2023	16:20	1	Groundwater		BD10206	<input checked="" type="checkbox"/>
MW-13	05/31/2023	08:44	1	Groundwater		BD10207	<input checked="" type="checkbox"/>
MW-41H	05/31/2023	09:55	1	Groundwater		BD10208	<input checked="" type="checkbox"/>
EB-1	05/31/2023	10:45	1	Equipment Blank		BD10209	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Burdette Cotton</i>	06/01/2023 09:01

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1410	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks





# Chain of Custody

## Groundwater

APC General Testing Laboratory

 Field Complete  
 Lab Complete

 Outside Lab

 Lab ETA 

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Anthony Goggins		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1 Radium 1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

 Comments 

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
FB-4	05/30/2023	12:30	1	Field Blank		BD10193	<input checked="" type="checkbox"/>
MW-53H	05/30/2023	13:46	1	Groundwater		BD10194	<input checked="" type="checkbox"/>
MW-6	05/30/2023	14:33	1	Groundwater		BD10195	<input checked="" type="checkbox"/>
MW-7	05/30/2023	15:12	1	Groundwater		BD10196	<input checked="" type="checkbox"/>
MW-8	05/30/2023	15:48	1	Groundwater		BD10197	<input checked="" type="checkbox"/>
MW-9	05/30/2023	16:26	1	Groundwater		BD10198	<input checked="" type="checkbox"/>
MW-25	05/30/2023	17:17	1	Groundwater		BD10199	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>

Relinquished By <i>Anthony Goggins</i>	Received By <i>Burke Gibson</i>	Date/Time 06/01/2023 09:03

SmarTroll ID	7586-41446-5-5	Cooler Temp	N/A
Turbidity ID	9830-57039-1-1	Thermometer ID	N/A
Sample Event	1410	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector		TJ Daugherty
		Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-30	05/30/2023	12:05	1	Groundwater		BD10210	<input checked="" type="checkbox"/>
MW-29	05/30/2023	13:18	1	Groundwater		BD10211	<input checked="" type="checkbox"/>
MW-28	05/30/2023	14:38	1	Groundwater		BD10212	<input checked="" type="checkbox"/>
MW-27	05/30/2023	15:33	1	Groundwater		BD10213	<input checked="" type="checkbox"/>
MW-26	05/30/2023	16:20	1	Groundwater		BD10214	<input checked="" type="checkbox"/>
MW-26 Dup	05/30/2023	16:20	1	Sample Duplicate		BD10215	<input checked="" type="checkbox"/>
MW-16	05/31/2023	08:40	1	Groundwater		BD10216	<input checked="" type="checkbox"/>
MW-40H	05/31/2023	09:40	1	Groundwater		BD10217	<input checked="" type="checkbox"/>
FB-2	05/31/2023	10:40	1	Field Blank		BD10218	<input checked="" type="checkbox"/>
MW-34HA	05/31/2023	10:55	1	Groundwater		BD10219	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
		06/01/2023 09:01

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1410	pH Strip ID	10620-61242-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks

Alabama Power  
General Test Laboratory  
744 County Road 87, GSC #8  
Calera, AL 35040  
205-664-6001

# ***Analytical Report***



**Sample Group :** WMWGREAP\_1413

**Project/Site :** Greene County Ash Pond  
Demopolis, AL 36732

**For :** Southern Company Services  
3535 Colonnade Parkway  
Birmingham, AL 35243

**Attention :** Dustin Brooks & Greg Dyer

**Released By :** Brooke Caton  
tbwill@southernco.com  
(205) 664-6101

June 12, 2023

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 2023. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114  
Issued By: State of Florida, Department of Health  
Expiration: June 30, 2023

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Quality Control: **Brooke  
Caton**

Digitally signed by Brooke  
Caton  
Date: 2023.06.12  
12:52:04 -05'00'

Supervision: **T Durant  
Maske**

Digitally signed by T Durant Maske  
DN: cn=T Durant Maske, gn=T Durant Maske, o=US  
United States, u=US United States  
e=tdurmaske@scgahemco.com  
Reason: I am the author of this document  
Location:  
Date: 2023-06-12 14:59:05.00



### REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.  
This document shall not be reproduced, except in full, without written consent from  
Alabama Power's General Test Laboratory.



Total Metals ICP

Greene Co. Ash Pond

WMWGREAP\_1413

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09438	755754	WMWGREAP_1413
BD09439	755754	WMWGREAP_1413
BD09440	755754	WMWGREAP_1413
BD09441	755754	WMWGREAP_1413

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed, and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

#### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09438	Calcium, Sodium	10.15
BD09439	Calcium, Sodium	10.15

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICP

Greene Co. Ash Pond

WMWGREAP\_1413

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09438	755695	WMWGREAP_1413
BD09439	755695	WMWGREAP_1413

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

#### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any

Revision 5

sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
    - BD09439 Calcium and Sodium MS/MSD spike levels were <30% of the sample concentration.
  - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09438	Calcium, Sodium	10.15
BD09439	Calcium, Sodium	10.15

8. The raw data results are shown with dilution factors included.



Total Metals ICPMS

Greene Co. Ash Pond

WMWGREAP\_1413

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09438	755928	WMWGREAP_1413
BD09439	755928	WMWGREAP_1413
BD09440	755928	WMWGREAP_1413
BD09441	755928	WMWGREAP_1413

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

#### Matrix Specific Quality Control Procedures:

Revision 5

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09438	Manganese	10.15
BD09439	Manganese	10.15

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Greene Co. Ash Pond

WMWGREAP\_1413

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09438	756079	WMWGREAP_1413
BD09439	756079	WMWGREAP_1413

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

#### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any

Revision 5

sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
    - BD09439 Manganese MS/MSD spike level was <30% of the sample concentration.
  - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09438	Manganese	10.15
BD09439	Manganese	10.15

8. The raw data results are shown with dilution factors included.

Mercury

Greene Co. Ash Pond

WMWGREAP\_1413

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09438	755823	WMWGREAP_1413
BD09439	755823	WMWGREAP_1413
BD09440	755823	WMWGREAP_1413
BD09441	755823	WMWGREAP_1413

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

#### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.

## Case Narrative

Total Dissolved Solids

Greene Co. Ash Pond

WMWGREAP\_1413

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09438	755661	WMWGREAP_1413
BD09439	755661	WMWGREAP_1413
BD09440	755661	WMWGREAP_1413
BD09441	755662	WMWGREAP_1413

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was  $\leq 10\%$ .
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue  $< 2.5\text{mg}$  had the maximum volume of 150mL filtered. Affected samples are as follows:
  - BD09440
  - BD09441

## Case Narrative

Alkalinity

Greene Co. Ash Pond

WMWGREAP\_1413

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09438	756426, 756427, 756428	WMWGREAP_1413
BD09439	756426, 756427, 756428	WMWGREAP_1413

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.



Anions

Greene Co. Ash Pond

WMWGREAP\_1413

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09438	756412, 756414, 755791	WMWGREAP_1413
BD09439	756412, 756414, 755791	WMWGREAP_1413
BD09440	756412, 756414, 755791	WMWGREAP_1413
BD09441	756412, 756414, 755791	WMWGREAP_1413

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

#### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.

## Case Narrative

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09438	Chloride, Sulfate	8, 4
BD09439	Chloride, Sulfate	8, 4

8. The raw data results are shown with dilution factors included.

Nitrate-Nitrite

Greene Co. Ash Pond

WMWGREAP\_1413

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09438	755801	WMWGREAP_1413
BD09439	755801	WMWGREAP_1413
BD09440	755801	WMWGREAP_1413
BD09441	755801	WMWGREAP_1413

4. All of the above samples were prepared and analyzed for NO<sub>x</sub> by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

#### EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
  - Matrix Specific QC:
    - A sample duplicate was run and criteria for precision was met.
    - A matrix spike was run and criteria for accuracy was met.
7. All samples were analyzed without a dilution factor.
  8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Greene Co. Ash Pond

WMWGREAP\_1413

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09438	755766	WMWGREAP_1413
BD09439	755766	WMWGREAP_1413
BD09440	755766	WMWGREAP_1413
BD09441	755766	WMWGREAP_1413

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

#### Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
  8. The raw data results are shown with dilution factors included.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-52HO

**Location Code:** WMWGREAP  
**Collected:** 5/15/23 14:10  
**Customer ID:**  
**Submittal Date:** 5/18/23 11:17

**Laboratory ID Number:** BD09438

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/19/23 11:37	5/22/23 15:20		1.015	1.54	mg/L	0.030000	0.1015	
* Calcium, Total	5/19/23 11:37	5/24/23 12:50		10.15	87.5	mg/L	0.70035	4.06	
* Iron, Total	5/19/23 11:37	5/22/23 15:20		1.015	0.261	mg/L	0.008120	0.0406	
* Lithium, Total	5/19/23 11:37	5/22/23 15:20		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/19/23 11:37	5/22/23 15:20		1.015	23.2	mg/L	0.021315	0.406	
* Molybdenum, Total	5/19/23 11:37	5/22/23 15:20		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 15:20		1	8.62	mg/L			
* Silicon, Total	5/19/23 11:37	5/22/23 15:20		1.015	4.03	mg/L	0.02030	0.25375	
* Sodium, Total	5/19/23 11:37	5/24/23 12:50		10.15	73.6	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>							
* Boron, Dissolved	5/19/23 08:47	5/19/23 11:55		1.015	1.50	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/19/23 08:47	5/19/23 15:01		10.15	84.7	mg/L	0.70035	4.06	
* Iron, Dissolved	5/19/23 08:47	5/19/23 11:55		1.015	0.171	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/19/23 08:47	5/19/23 11:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/19/23 08:47	5/19/23 11:55		1.015	22.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/19/23 08:47	5/19/23 11:55		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/19/23 08:47	5/19/23 11:55		1	8.50	mg/L			
* Silicon, Dissolved	5/19/23 08:47	5/19/23 11:55		1.015	3.97	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/19/23 08:47	5/19/23 15:01		10.15	71.8	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/19/23 11:37	5/19/23 16:50		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/19/23 11:37	5/19/23 16:50		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/19/23 11:37	5/19/23 16:50		1.015	0.000223	mg/L	0.000112	0.000203	
* Barium, Total	5/19/23 11:37	5/19/23 16:50		1.015	0.203	mg/L	0.000508	0.001015	
* Beryllium, Total	5/19/23 11:37	5/19/23 16:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/19/23 11:37	5/19/23 16:50		1.015	0.000180	mg/L	0.000068	0.000203	J
* Chromium, Total	5/19/23 11:37	5/19/23 16:50		1.015	0.000224	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/19/23 11:37	5/19/23 16:50		1.015	0.0110	mg/L	0.000068	0.000203	
* Lead, Total	5/19/23 11:37	5/19/23 16:50		1.015	0.0000705	mg/L	0.000068	0.000203	J
* Manganese, Total	5/19/23 11:37	5/19/23 17:11		10.15	10.7	mg/L	0.001522	0.01015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-52HO

**Location Code:** WMWGREAP

**Collected:** 5/15/23 14:10

**Customer ID:**

**Submittal Date:** 5/18/23 11:17

**Laboratory ID Number:** BD09438

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/19/23 11:37	5/19/23 16:50		1.015	4.86	mg/L	0.169505	0.5075	
* Selenium, Total	5/19/23 11:37	5/19/23 16:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/19/23 11:37	5/19/23 16:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/19/23 08:47	5/19/23 10:47		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/19/23 08:47	5/19/23 10:47		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/19/23 08:47	5/19/23 10:47		1.015	0.000160	mg/L	0.000112	0.000203	J
* Barium, Dissolved	5/19/23 08:47	5/19/23 10:47		1.015	0.207	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/19/23 08:47	5/19/23 10:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/19/23 08:47	5/19/23 10:47		1.015	0.000125	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	5/19/23 08:47	5/19/23 10:47		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/19/23 08:47	5/19/23 10:47		1.015	0.0110	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/19/23 08:47	5/19/23 10:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/19/23 08:47	5/19/23 13:16		10.15	10.7	mg/L	0.001522	0.01015	
* Potassium, Dissolved	5/19/23 08:47	5/19/23 10:47		1.015	4.86	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/19/23 08:47	5/19/23 10:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/19/23 08:47	5/19/23 10:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/24/23 14:22	5/24/23 20:20		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	5/19/23 13:14	5/19/23 13:14		1	0.443	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/24/23 10:42	5/24/23 13:43		1	272	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/18/23 13:20	5/22/23 10:19		1	468	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/24/23 10:42	5/24/23 13:43		1	272	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/24/23 10:42	5/24/23 13:43		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 19:52	5/22/23 19:52		1	1.05	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-52HO

**Location Code:** WMWGREAP

**Collected:** 5/15/23 14:10

**Customer ID:**

**Submittal Date:** 5/18/23 11:17

**Laboratory ID Number:** BD09438

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 11:59	5/24/23 11:59		8	74.2	mg/L	4.00	8	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:15	5/25/23 10:15		1	0.104	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 15:48	5/18/23 15:48		4	51.8	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/15/23 14:08	5/15/23 14:08			882.52	uS/cm			FA
pH	5/15/23 14:08	5/15/23 14:08			6.15	SU			FA
Temperature	5/15/23 14:08	5/15/23 14:08			18.33	C			FA
Turbidity	5/15/23 14:08	5/15/23 14:08			1.35	NTU			FA
Sulfide	5/15/23 14:08	5/15/23 14:08			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/15/23 14:10

**Customer ID:**

**Delivery Date:** 5/18/23 11:17

**Description:** Greene County Ash Pond - MW-52HO

**Laboratory ID Number:** BD09438

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec		
BD09439	Aluminum, Dissolved	mg/L	-0.000316	0.0198	0.100	0.0989	0.100	0.101	0.0850 to 0.115	98.9	70.0 to 130	1.11	20.0	
BD09441	Aluminum, Total	mg/L	0.000541	0.0198	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0	
BD09439	Antimony, Dissolved	mg/L	0.000412	0.00100	0.100	0.0979	0.0956	0.0989	0.0850 to 0.115	97.9	70.0 to 130	2.38	20.0	
BD09441	Antimony, Total	mg/L	0.000351	0.00100	0.100	0.0989	0.0992	0.102	0.0850 to 0.115	98.9	70.0 to 130	0.303	20.0	
BD09439	Arsenic, Dissolved	mg/L	0.0000161	0.000200	0.100	0.107	0.106	0.104	0.0850 to 0.115	107	70.0 to 130	0.939	20.0	
BD09441	Arsenic, Total	mg/L	0.0000359	0.000200	0.100	0.105	0.103	0.103	0.0850 to 0.115	105	70.0 to 130	1.92	20.0	
BD09439	Barium, Dissolved	mg/L	0.0000146	0.00100	0.100	0.312	0.310	0.110	0.0850 to 0.115	109	70.0 to 130	0.643	20.0	
BD09441	Barium, Total	mg/L	0.0000228	0.00100	0.100	0.111	0.109	0.111	0.0850 to 0.115	111	70.0 to 130	1.82	20.0	
BD09439	Beryllium, Dissolved	mg/L	0.0000446	0.000880	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0	
BD09441	Beryllium, Total	mg/L	0.0000230	0.000880	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0	
BD09439	Boron, Dissolved	mg/L	-0.00216	0.0650	1.00	2.53	2.51	1.01	0.850 to 1.15	102	70.0 to 130	0.794	20.0	
BD09441	Boron, Total	mg/L	0.000075	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0	
BD09439	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.105	0.101	0.103	0.0850 to 0.115	105	70.0 to 130	3.88	20.0	
BD09441	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0	
BD09439	Calcium, Dissolved	mg/L	-0.0172	0.152	5.00	97.7	102	5.06	4.25 to 5.75	364	70.0 to 130	4.31	20.0	
BD09441	Calcium, Total	mg/L	-0.00485	0.152	5.00	5.07	5.07	5.15	4.25 to 5.75	101	70.0 to 130	0.00	20.0	
BD09441	Chloride	mg/L	0.0661	1.00	10.0	9.98	10.2	9.85	9.00 to 11.0	99.8	80.0 to 120	2.18	20.0	
BD09439	Chromium, Dissolved	mg/L	-0.0000023	0.000440	0.100	0.0983	0.100	0.104	0.0850 to 0.115	98.3	70.0 to 130	1.71	20.0	
BD09441	Chromium, Total	mg/L	-0.0000172	0.000440	0.100	0.102	0.101	0.0997	0.0850 to 0.115	102	70.0 to 130	0.985	20.0	
BD09439	Cobalt, Dissolved	mg/L	-0.0000437	0.000147	0.100	0.109	0.111	0.103	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0	
BD09441	Cobalt, Total	mg/L	-0.0000458	0.000147	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0	
BD09441	Fluoride	mg/L	0.0448	0.125	2.50	2.69	2.71	2.58	2.25 to 2.75	108	80.0 to 120	0.741	20.0	
BD09439	Iron, Dissolved	mg/L	0.0000081	0.0176	0.2	0.375	0.369	0.201	0.170 to 0.230	103	70.0 to 130	1.61	20.0	
BD09441	Iron, Total	mg/L	0.000515	0.0176	0.2	0.203	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.00	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/15/23 14:10

**Customer ID:**

**Delivery Date:** 5/18/23 11:17

**Description:** Greene County Ash Pond - MW-52HO

**Laboratory ID Number:** BD09438

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09439	Lead, Dissolved	mg/L	0.0000121	0.000147	0.100	0.104	0.106	0.105	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD09441	Lead, Total	mg/L	0.0000090	0.000147	0.100	0.102	0.107	0.105	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BD09439	Lithium, Dissolved	mg/L	0.000741	0.0154	0.200	0.203	0.209	0.202	0.170 to 0.230	102	70.0 to 130	2.91	20.0
BD09441	Lithium, Total	mg/L	0.000717	0.0154	0.200	0.204	0.200	0.202	0.170 to 0.230	102	70.0 to 130	1.98	20.0
BD09439	Magnesium, Dissolved	mg/L	-0.00343	0.0462	5.00	27.4	27.8	4.97	4.25 to 5.75	74.0	70.0 to 130	1.45	20.0
BD09441	Magnesium, Total	mg/L	-0.00634	0.0462	5.00	5.03	4.97	5.03	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BD09439	Manganese, Dissolved	mg/L	0.000134	0.00033	0.100	10.7	11.0	0.106	0.0850 to 0.115	-200	70.0 to 130	2.76	20.0
BD09441	Manganese, Total	mg/L	0.0000160	0.00033	0.100	0.104	0.104	0.102	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09441	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00388	0.00391	0.0039	0.00340 to 0.00460	97.0	70.0 to 130	0.770	20.0
BD09439	Molybdenum, Dissolved	mg/L	0.00225	0.0100	0.2	0.200	0.200	0.199	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BD09441	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.198	0.200	0.200	0.170 to 0.230	99.0	70.0 to 130	1.01	20.0
BD09439	Potassium, Dissolved	mg/L	0.00625	0.367	10.0	14.7	14.8	10.2	8.50 to 11.5	100	70.0 to 130	0.678	20.0
BD09441	Potassium, Total	mg/L	0.0101	0.367	10.0	10.2	10.2	9.89	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD09439	Selenium, Dissolved	mg/L	0.000131	0.00100	0.100	0.104	0.102	0.0996	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD09441	Selenium, Total	mg/L	0.000151	0.00100	0.100	0.100	0.0998	0.101	0.0850 to 0.115	100	70.0 to 130	0.200	20.0
BD09439	Silicon, Dissolved	mg/L	0.000050	0.0440	1.00	5.02	4.96	1.02	0.850 to 1.15	105	70.0 to 130	1.20	20.0
BD09441	Silicon, Total	mg/L	0.000675	0.0440	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD09439	Sodium, Dissolved	mg/L	0.00535	0.0880	5.00	84.6	88.2	4.99	4.25 to 5.75	356	70.0 to 130	4.17	20.0
BD09441	Sodium, Total	mg/L	-0.00101	0.0880	5.00	4.97	4.90	4.95	4.25 to 5.75	99.4	70.0 to 130	1.42	20.0
BD09441	Sulfate	mg/L	-0.0774	2.0	20.0	19.8	19.8	19.5	18.0 to 22.0	99.0	80.0 to 120	0.00	20.0
BD09439	Thallium, Dissolved	mg/L	-0.0000363	0.000147	0.100	0.105	0.106	0.103	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD09441	Thallium, Total	mg/L	-0.0000392	0.000147	0.100	0.102	0.108	0.106	0.0850 to 0.115	102	70.0 to 130	5.71	20.0
BD09440	Total Organic Carbon	mg/L	0.0677	1.00	10.0	9.97	9.42	9.11		99.7	80.0 to 120	5.67	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/15/23 14:10

**Customer ID:**

**Delivery Date:** 5/18/23 11:17

**Description:** Greene County Ash Pond - MW-52HO

**Laboratory ID Number:** BD09438

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09411	Alkalinity	mg CaCO3/L					241	51.2	45.0 to 55.0			0.414	10.0
BD09441	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.84	-0.001	1.82	1.80 to 2.20	92.0	90.0 to 110	0.00	15.0
BD09439	Solids, Dissolved	mg/L	0.0000	25.0			464	50.0	40.0 to 60.0			2.13	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-52HO Dup

**Location Code:** WMWGREAP  
**Collected:** 5/15/23 14:10  
**Customer ID:**  
**Submittal Date:** 5/18/23 11:17

**Laboratory ID Number:** BD09439

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	5/19/23 11:37	5/22/23 15:24		1.015	1.55	mg/L	0.030000	0.1015		
* Calcium, Total	5/19/23 11:37	5/24/23 12:53		10.15	87.3	mg/L	0.70035	4.06		
* Iron, Total	5/19/23 11:37	5/22/23 15:24		1.015	0.255	mg/L	0.008120	0.0406		
* Lithium, Total	5/19/23 11:37	5/22/23 15:24		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/19/23 11:37	5/22/23 15:24		1.015	23.1	mg/L	0.021315	0.406		
* Molybdenum, Total	5/19/23 11:37	5/22/23 15:24		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 15:24		1	8.65	mg/L				
* Silicon, Total	5/19/23 11:37	5/22/23 15:24		1.015	4.04	mg/L	0.02030	0.25375		
* Sodium, Total	5/19/23 11:37	5/24/23 12:53		10.15	72.5	mg/L	0.4060	4.06		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>								
* Boron, Dissolved	5/19/23 08:47	5/19/23 11:58		1.015	1.51	mg/L	0.030000	0.1015		
* Calcium, Dissolved	5/19/23 08:47	5/19/23 15:04		10.15	79.5	mg/L	0.70035	4.06	RA	
* Iron, Dissolved	5/19/23 08:47	5/19/23 11:58		1.015	0.169	mg/L	0.008120	0.0406		
* Lithium, Dissolved	5/19/23 08:47	5/19/23 11:58		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/19/23 08:47	5/19/23 11:58		1.015	23.7	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	5/19/23 08:47	5/19/23 11:58		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	5/19/23 08:47	5/19/23 11:58		1	8.50	mg/L				
* Silicon, Dissolved	5/19/23 08:47	5/19/23 11:58		1.015	3.97	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/19/23 08:47	5/19/23 15:04		10.15	66.8	mg/L	0.4060	4.06	RA	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	5/19/23 11:37	5/19/23 16:53		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	5/19/23 11:37	5/19/23 16:53		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	5/19/23 11:37	5/19/23 16:53		1.015	0.000264	mg/L	0.000112	0.000203		
* Barium, Total	5/19/23 11:37	5/19/23 16:53		1.015	0.204	mg/L	0.000508	0.001015		
* Beryllium, Total	5/19/23 11:37	5/19/23 16:53		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/19/23 11:37	5/19/23 16:53		1.015	0.000187	mg/L	0.000068	0.000203	J	
* Chromium, Total	5/19/23 11:37	5/19/23 16:53		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	5/19/23 11:37	5/19/23 16:53		1.015	0.0108	mg/L	0.000068	0.000203		
* Lead, Total	5/19/23 11:37	5/19/23 16:53		1.015	0.0000715	mg/L	0.000068	0.000203	J	
* Manganese, Total	5/19/23 11:37	5/19/23 17:15		10.15	10.9	mg/L	0.001522	0.01015		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-52HO Dup

**Location Code:** WMWGREAP  
**Collected:** 5/15/23 14:10  
**Customer ID:**  
**Submittal Date:** 5/18/23 11:17

**Laboratory ID Number:** BD09439

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/19/23 11:37	5/19/23 16:53		1.015	4.82	mg/L	0.169505	0.5075	
* Selenium, Total	5/19/23 11:37	5/19/23 16:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/19/23 11:37	5/19/23 16:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/19/23 08:47	5/19/23 10:51		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/19/23 08:47	5/19/23 10:51		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/19/23 08:47	5/19/23 10:51		1.015	0.000140	mg/L	0.000112	0.000203	J
* Barium, Dissolved	5/19/23 08:47	5/19/23 10:51		1.015	0.203	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/19/23 08:47	5/19/23 10:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/19/23 08:47	5/19/23 10:51		1.015	0.000124	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	5/19/23 08:47	5/19/23 10:51		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/19/23 08:47	5/19/23 10:51		1.015	0.0110	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/19/23 08:47	5/19/23 10:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/19/23 08:47	5/19/23 13:20		10.15	10.9	mg/L	0.001522	0.01015	RA
* Potassium, Dissolved	5/19/23 08:47	5/19/23 10:51		1.015	4.70	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/19/23 08:47	5/19/23 10:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/19/23 08:47	5/19/23 10:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/24/23 14:22	5/24/23 20:24		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	5/19/23 13:16	5/19/23 13:16		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/24/23 10:42	5/24/23 13:43		1	272	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/18/23 13:20	5/22/23 10:19		1	474	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/24/23 10:42	5/24/23 13:43		1	272	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/24/23 10:42	5/24/23 13:43		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 20:09	5/22/23 20:09		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-52HO Dup

**Location Code:** WMWGREAP

**Collected:** 5/15/23 14:10

**Customer ID:**

**Submittal Date:** 5/18/23 11:17

**Laboratory ID Number:** BD09439

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 12:00	5/24/23 12:00		8	75.8	mg/L	4.00	8	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:16	5/25/23 10:16		1	0.0874	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 15:49	5/18/23 15:49		4	53.3	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	5/15/23 14:08	5/15/23 14:08			882.52	uS/cm			FA
pH	5/15/23 14:08	5/15/23 14:08			6.15	SU			FA
Temperature	5/15/23 14:08	5/15/23 14:08			18.33	C			FA
Turbidity	5/15/23 14:08	5/15/23 14:08			1.35	NTU			FA
Sulfide	5/15/23 14:08	5/15/23 14:08			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/15/23 14:10

**Customer ID:**

**Delivery Date:** 5/18/23 11:17

**Description:** Greene County Ash Pond - MW-52HO Dup

**Laboratory ID Number:** BD09439

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09439	Aluminum, Dissolved	mg/L	-0.000316	0.0198	0.100	0.0989	0.100	0.101	0.0850 to 0.115	98.9	70.0 to 130	1.11	20.0
BD09441	Aluminum, Total	mg/L	0.000541	0.0198	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD09439	Antimony, Dissolved	mg/L	0.000412	0.00100	0.100	0.0979	0.0956	0.0989	0.0850 to 0.115	97.9	70.0 to 130	2.38	20.0
BD09441	Antimony, Total	mg/L	0.000351	0.00100	0.100	0.0989	0.0992	0.102	0.0850 to 0.115	98.9	70.0 to 130	0.303	20.0
BD09439	Arsenic, Dissolved	mg/L	0.0000161	0.000200	0.100	0.107	0.106	0.104	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BD09441	Arsenic, Total	mg/L	0.0000359	0.000200	0.100	0.105	0.103	0.103	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD09439	Barium, Dissolved	mg/L	0.0000146	0.00100	0.100	0.312	0.310	0.110	0.0850 to 0.115	109	70.0 to 130	0.643	20.0
BD09441	Barium, Total	mg/L	0.0000228	0.00100	0.100	0.111	0.109	0.111	0.0850 to 0.115	111	70.0 to 130	1.82	20.0
BD09439	Beryllium, Dissolved	mg/L	0.0000446	0.000880	0.100	0.101	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	2.93	20.0
BD09441	Beryllium, Total	mg/L	0.0000230	0.000880	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09439	Boron, Dissolved	mg/L	-0.00216	0.0650	1.00	2.53	2.51	1.01	0.850 to 1.15	102	70.0 to 130	0.794	20.0
BD09441	Boron, Total	mg/L	0.000075	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD09439	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.105	0.101	0.103	0.0850 to 0.115	105	70.0 to 130	3.88	20.0
BD09441	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09439	Calcium, Dissolved	mg/L	-0.0172	0.152	5.00	97.7	102	5.06	4.25 to 5.75	364	70.0 to 130	4.31	20.0
BD09441	Calcium, Total	mg/L	-0.00485	0.152	5.00	5.07	5.07	5.15	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BD09441	Chloride	mg/L	0.0661	1.00	10.0	9.98	10.2	9.85	9.00 to 11.0	99.8	80.0 to 120	2.18	20.0
BD09439	Chromium, Dissolved	mg/L	-0.0000023	0.000440	0.100	0.0983	0.100	0.104	0.0850 to 0.115	98.3	70.0 to 130	1.71	20.0
BD09441	Chromium, Total	mg/L	-0.0000172	0.000440	0.100	0.102	0.101	0.0997	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD09439	Cobalt, Dissolved	mg/L	-0.0000437	0.000147	0.100	0.109	0.111	0.103	0.0850 to 0.115	98.0	70.0 to 130	1.82	20.0
BD09441	Cobalt, Total	mg/L	-0.0000458	0.000147	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09441	Fluoride	mg/L	0.0448	0.125	2.50	2.69	2.71	2.58	2.25 to 2.75	108	80.0 to 120	0.741	20.0
BD09439	Iron, Dissolved	mg/L	0.0000081	0.0176	0.2	0.375	0.369	0.201	0.170 to 0.230	103	70.0 to 130	1.61	20.0
BD09441	Iron, Total	mg/L	0.000515	0.0176	0.2	0.203	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.00	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/15/23 14:10

**Customer ID:**

**Delivery Date:** 5/18/23 11:17

**Description:** Greene County Ash Pond - MW-52HO Dup

**Laboratory ID Number:** BD09439

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09439	Lead, Dissolved	mg/L	0.0000121	0.000147	0.100	0.104	0.106	0.105	0.0850 to 0.115	104	70.0 to 130	1.90	20.0
BD09441	Lead, Total	mg/L	0.0000090	0.000147	0.100	0.102	0.107	0.105	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BD09439	Lithium, Dissolved	mg/L	0.000741	0.0154	0.200	0.203	0.209	0.202	0.170 to 0.230	102	70.0 to 130	2.91	20.0
BD09441	Lithium, Total	mg/L	0.000717	0.0154	0.200	0.204	0.200	0.202	0.170 to 0.230	102	70.0 to 130	1.98	20.0
BD09439	Magnesium, Dissolved	mg/L	-0.00343	0.0462	5.00	27.4	27.8	4.97	4.25 to 5.75	74.0	70.0 to 130	1.45	20.0
BD09441	Magnesium, Total	mg/L	-0.00634	0.0462	5.00	5.03	4.97	5.03	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BD09439	Manganese, Dissolved	mg/L	0.000134	0.00033	0.100	10.7	11.0	0.106	0.0850 to 0.115	-200	70.0 to 130	2.76	20.0
BD09441	Manganese, Total	mg/L	0.0000160	0.00033	0.100	0.104	0.104	0.102	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09441	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00388	0.00391	0.0039	0.00340 to 0.00460	97.0	70.0 to 130	0.770	20.0
BD09439	Molybdenum, Dissolved	mg/L	0.00225	0.0100	0.2	0.200	0.200	0.199	0.170 to 0.230	100	70.0 to 130	0.00	20.0
BD09441	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.198	0.200	0.200	0.170 to 0.230	99.0	70.0 to 130	1.01	20.0
BD09439	Potassium, Dissolved	mg/L	0.00625	0.367	10.0	14.7	14.8	10.2	8.50 to 11.5	100	70.0 to 130	0.678	20.0
BD09441	Potassium, Total	mg/L	0.0101	0.367	10.0	10.2	10.2	9.89	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD09439	Selenium, Dissolved	mg/L	0.000131	0.00100	0.100	0.104	0.102	0.0996	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD09441	Selenium, Total	mg/L	0.000151	0.00100	0.100	0.100	0.0998	0.101	0.0850 to 0.115	100	70.0 to 130	0.200	20.0
BD09439	Silicon, Dissolved	mg/L	0.000050	0.0440	1.00	5.02	4.96	1.02	0.850 to 1.15	105	70.0 to 130	1.20	20.0
BD09441	Silicon, Total	mg/L	0.000675	0.0440	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD09439	Sodium, Dissolved	mg/L	0.00535	0.0880	5.00	84.6	88.2	4.99	4.25 to 5.75	356	70.0 to 130	4.17	20.0
BD09441	Sodium, Total	mg/L	-0.00101	0.0880	5.00	4.97	4.90	4.95	4.25 to 5.75	99.4	70.0 to 130	1.42	20.0
BD09441	Sulfate	mg/L	-0.0774	2.0	20.0	19.8	19.8	19.5	18.0 to 22.0	99.0	80.0 to 120	0.00	20.0
BD09439	Thallium, Dissolved	mg/L	-0.0000363	0.000147	0.100	0.105	0.106	0.103	0.0850 to 0.115	105	70.0 to 130	0.948	20.0
BD09441	Thallium, Total	mg/L	-0.0000392	0.000147	0.100	0.102	0.108	0.106	0.0850 to 0.115	102	70.0 to 130	5.71	20.0
BD09440	Total Organic Carbon	mg/L	0.0677	1.00	10.0	9.97	9.42	9.11		99.7	80.0 to 120	5.67	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/15/23 14:10

**Customer ID:**

**Delivery Date:** 5/18/23 11:17

**Description:** Greene County Ash Pond - MW-52HO Dup

**Laboratory ID Number:** BD09439

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09411	Alkalinity	mg CaCO3/L					241	51.2	45.0 to 55.0			0.414	10.0
BD09441	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.84	-0.001	1.82	1.80 to 2.20	92.0	90.0 to 110	0.00	15.0
BD09439	Solids, Dissolved	mg/L	0.0000	25.0			464	50.0	40.0 to 60.0			2.13	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond Equipment Blank-1

**Location Code:** WMWGREAPEB  
**Collected:** 5/15/23 14:45  
**Customer ID:**  
**Submittal Date:** 5/18/23 11:17

**Laboratory ID Number:** BD09440

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/19/23 11:37	5/22/23 15:27		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/19/23 11:37	5/22/23 15:27		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	5/19/23 11:37	5/22/23 15:27		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	5/19/23 11:37	5/22/23 15:27		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/19/23 11:37	5/22/23 15:27		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	5/19/23 11:37	5/22/23 15:27		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 15:27		1	Not Detected	mg/L			
* Silicon, Total	5/19/23 11:37	5/22/23 15:27		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	5/19/23 11:37	5/22/23 15:27		1.015	0.0580	mg/L	0.04060	0.406	J
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/19/23 11:37	5/19/23 16:57		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/19/23 11:37	5/19/23 16:57		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/19/23 11:37	5/19/23 16:57		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	5/19/23 11:37	5/19/23 16:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	5/19/23 11:37	5/19/23 16:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/19/23 11:37	5/19/23 16:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/19/23 11:37	5/19/23 16:57		1.015	0.000241	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/19/23 11:37	5/19/23 16:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/19/23 11:37	5/19/23 16:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/19/23 11:37	5/19/23 16:57		1.015	0.000654	mg/L	0.000152	0.001015	J
* Potassium, Total	5/19/23 11:37	5/19/23 16:57		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	5/19/23 11:37	5/19/23 16:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/19/23 11:37	5/19/23 16:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>			<b>Analyst: ELH</b>						
* Mercury, Total by CVAA	5/24/23 14:22	5/24/23 20:28		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>			<b>Analyst: CES</b>						
* Nitrogen, Nitrate/Nitrite	5/19/23 13:18	5/19/23 13:18		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2540C</b>			<b>Analyst: CNJ</b>						
* Solids, Dissolved	5/18/23 13:20	5/22/23 10:19		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Equipment Blank-1

**Location Code:** WMWGREAPEB

**Collected:** 5/15/23 14:45

**Customer ID:**

**Submittal Date:** 5/18/23 11:17

**Laboratory ID Number:** BD09440

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 20:38	5/22/23 20:38		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 12:02	5/24/23 12:02		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:17	5/25/23 10:17		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 15:50	5/18/23 15:50		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPEB

**Sample Date:** 5/15/23 14:45

**Customer ID:**

**Delivery Date:** 5/18/23 11:17

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD09440

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09441	Aluminum, Total	mg/L	0.000541	0.0198	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD09441	Antimony, Total	mg/L	0.000351	0.00100	0.100	0.0989	0.0992	0.102	0.0850 to 0.115	98.9	70.0 to 130	0.303	20.0
BD09441	Arsenic, Total	mg/L	0.0000359	0.000200	0.100	0.105	0.103	0.103	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD09441	Barium, Total	mg/L	0.0000228	0.00100	0.100	0.111	0.109	0.111	0.0850 to 0.115	111	70.0 to 130	1.82	20.0
BD09441	Beryllium, Total	mg/L	0.0000230	0.000880	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09441	Boron, Total	mg/L	0.000075	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD09441	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09441	Calcium, Total	mg/L	-0.00485	0.152	5.00	5.07	5.07	5.15	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BD09441	Chloride	mg/L	0.0661	1.00	10.0	9.98	10.2	9.85	9.00 to 11.0	99.8	80.0 to 120	2.18	20.0
BD09441	Chromium, Total	mg/L	-0.0000172	0.000440	0.100	0.102	0.101	0.0997	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD09441	Cobalt, Total	mg/L	-0.0000458	0.000147	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09441	Fluoride	mg/L	0.0448	0.125	2.50	2.69	2.71	2.58	2.25 to 2.75	108	80.0 to 120	0.741	20.0
BD09441	Iron, Total	mg/L	0.000515	0.0176	0.2	0.203	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD09441	Lead, Total	mg/L	0.0000090	0.000147	0.100	0.102	0.107	0.105	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BD09441	Lithium, Total	mg/L	0.000717	0.0154	0.200	0.204	0.200	0.202	0.170 to 0.230	102	70.0 to 130	1.98	20.0
BD09441	Magnesium, Total	mg/L	-0.00634	0.0462	5.00	5.03	4.97	5.03	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BD09441	Manganese, Total	mg/L	0.0000160	0.00033	0.100	0.104	0.104	0.102	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09441	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00388	0.00391	0.0039	0.00340 to 0.00460	97.0	70.0 to 130	0.770	20.0
BD09441	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.198	0.200	0.200	0.170 to 0.230	99.0	70.0 to 130	1.01	20.0
BD09441	Potassium, Total	mg/L	0.0101	0.367	10.0	10.2	10.2	9.89	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD09441	Selenium, Total	mg/L	0.000151	0.00100	0.100	0.100	0.0998	0.101	0.0850 to 0.115	100	70.0 to 130	0.200	20.0
BD09441	Silicon, Total	mg/L	0.000675	0.0440	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD09441	Sodium, Total	mg/L	-0.00101	0.0880	5.00	4.97	4.90	4.95	4.25 to 5.75	99.4	70.0 to 130	1.42	20.0
BD09441	Sulfate	mg/L	-0.0774	2.0	20.0	19.8	19.8	19.5	18.0 to 22.0	99.0	80.0 to 120	0.00	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPEB

**Sample Date:** 5/15/23 14:45

**Customer ID:**

**Delivery Date:** 5/18/23 11:17

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD09440

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Limit			Rec	Limit	Prec			
BD09441	Thallium, Total	mg/L	-0.0000392	0.000147	0.100	0.102	0.108	0.106	0.0850 to 0.115		102	70.0 to 130		5.71	20.0
BD09440	Total Organic Carbon	mg/L	0.0677	1.00	10.0	9.97	9.42	9.11			99.7	80.0 to 120		5.67	20.0

**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPEB

**Sample Date:** 5/15/23 14:45

**Customer ID:**

**Delivery Date:** 5/18/23 11:17

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD09440

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BD09441	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.84	-0.001	1.82	1.80 to 2.20	92.0	90.0 to 110	0.00	15.0
BD09439	Solids, Dissolved	mg/L	0.0000	25.0			464	50.0	40.0 to 60.0			2.13	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-1

**Location Code:** WMWGREAPFB  
**Collected:** 5/15/23 15:00  
**Customer ID:**  
**Submittal Date:** 5/18/23 11:17

**Laboratory ID Number:** BD09441

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	5/19/23 11:37	5/22/23 15:30		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/19/23 11:37	5/22/23 15:30		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	5/19/23 11:37	5/22/23 15:30		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	5/19/23 11:37	5/22/23 15:30		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/19/23 11:37	5/22/23 15:30		1.015	Not Detected	mg/L	0.021315	0.406	U	
* Molybdenum, Total	5/19/23 11:37	5/22/23 15:30		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 15:30		1	Not Detected	mg/L				
* Silicon, Total	5/19/23 11:37	5/22/23 15:30		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	5/19/23 11:37	5/22/23 15:30		1.015	Not Detected	mg/L	0.04060	0.406	U	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	5/19/23 11:37	5/19/23 17:01		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	5/19/23 11:37	5/19/23 17:01		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	5/19/23 11:37	5/19/23 17:01		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	5/19/23 11:37	5/19/23 17:01		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	5/19/23 11:37	5/19/23 17:01		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/19/23 11:37	5/19/23 17:01		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	5/19/23 11:37	5/19/23 17:01		1.015	0.000235	mg/L	0.000203	0.001015	J	
* Cobalt, Total	5/19/23 11:37	5/19/23 17:01		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	5/19/23 11:37	5/19/23 17:01		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	5/19/23 11:37	5/19/23 17:01		1.015	0.000420	mg/L	0.000152	0.001015	J	
* Potassium, Total	5/19/23 11:37	5/19/23 17:01		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	5/19/23 11:37	5/19/23 17:01		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	5/19/23 11:37	5/19/23 17:01		1.015	Not Detected	mg/L	0.000068	0.000203	U	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>								
* Mercury, Total by CVAA	5/24/23 14:22	5/24/23 20:32		1	Not Detected	mg/L	0.0003	0.0005	U	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>								
* Nitrogen, Nitrate/Nitrite	5/19/23 13:20	5/19/23 13:20		1	Not Detected	mg/L as N	0.20	0.3	U	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>								
* Solids, Dissolved	5/18/23 13:20	5/22/23 10:19		1	Not Detected	mg/L		25	U	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-1

**Location Code:** WMWGREAPFB

**Collected:** 5/15/23 15:00

**Customer ID:**

**Submittal Date:** 5/18/23 11:17

**Laboratory ID Number:** BD09441

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 20:26	5/22/23 20:26		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 12:03	5/24/23 12:03		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:18	5/25/23 10:18		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 15:51	5/18/23 15:51		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/15/23 15:00

**Customer ID:**

**Delivery Date:** 5/18/23 11:17

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD09441

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09441	Aluminum, Total	mg/L	0.000541	0.0198	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD09441	Antimony, Total	mg/L	0.000351	0.00100	0.100	0.0989	0.0992	0.102	0.0850 to 0.115	98.9	70.0 to 130	0.303	20.0
BD09441	Arsenic, Total	mg/L	0.0000359	0.000200	0.100	0.105	0.103	0.103	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD09441	Barium, Total	mg/L	0.0000228	0.00100	0.100	0.111	0.109	0.111	0.0850 to 0.115	111	70.0 to 130	1.82	20.0
BD09441	Beryllium, Total	mg/L	0.0000230	0.000880	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09441	Boron, Total	mg/L	0.000075	0.0650	1.00	1.03	1.03	1.04	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD09441	Cadmium, Total	mg/L	0.0000059	0.000147	0.100	0.104	0.104	0.106	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09441	Calcium, Total	mg/L	-0.00485	0.152	5.00	5.07	5.07	5.15	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BD09441	Chloride	mg/L	0.0661	1.00	10.0	9.98	10.2	9.85	9.00 to 11.0	99.8	80.0 to 120	2.18	20.0
BD09441	Chromium, Total	mg/L	-0.0000172	0.000440	0.100	0.102	0.101	0.0997	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD09441	Cobalt, Total	mg/L	-0.0000458	0.000147	0.100	0.103	0.102	0.100	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09441	Fluoride	mg/L	0.0448	0.125	2.50	2.69	2.71	2.58	2.25 to 2.75	108	80.0 to 120	0.741	20.0
BD09441	Iron, Total	mg/L	0.000515	0.0176	0.2	0.203	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD09441	Lead, Total	mg/L	0.0000090	0.000147	0.100	0.102	0.107	0.105	0.0850 to 0.115	102	70.0 to 130	4.78	20.0
BD09441	Lithium, Total	mg/L	0.000717	0.0154	0.200	0.204	0.200	0.202	0.170 to 0.230	102	70.0 to 130	1.98	20.0
BD09441	Magnesium, Total	mg/L	-0.00634	0.0462	5.00	5.03	4.97	5.03	4.25 to 5.75	101	70.0 to 130	1.20	20.0
BD09441	Manganese, Total	mg/L	0.0000160	0.00033	0.100	0.104	0.104	0.102	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD09441	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00388	0.00391	0.0039	0.00340 to 0.00460	97.0	70.0 to 130	0.770	20.0
BD09441	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.198	0.200	0.200	0.170 to 0.230	99.0	70.0 to 130	1.01	20.0
BD09441	Potassium, Total	mg/L	0.0101	0.367	10.0	10.2	10.2	9.89	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD09441	Selenium, Total	mg/L	0.000151	0.00100	0.100	0.100	0.0998	0.101	0.0850 to 0.115	100	70.0 to 130	0.200	20.0
BD09441	Silicon, Total	mg/L	0.000675	0.0440	1.00	1.02	1.02	1.03	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD09441	Sodium, Total	mg/L	-0.00101	0.0880	5.00	4.97	4.90	4.95	4.25 to 5.75	99.4	70.0 to 130	1.42	20.0
BD09441	Sulfate	mg/L	-0.0774	2.0	20.0	19.8	19.8	19.5	18.0 to 22.0	99.0	80.0 to 120	0.00	20.0

**Comments:**



# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/15/23 15:00

**Customer ID:**

**Delivery Date:** 5/18/23 11:17

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD09441

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD09441	Thallium, Total	mg/L	-0.0000392	0.000147	0.100	0.102	0.108	0.106	0.0850 to 0.115	102	70.0 to 130	5.71	20.0
BD09440	Total Organic Carbon	mg/L	0.0677	1.00	10.0	9.97	9.42	9.11		99.7	80.0 to 120	5.67	20.0

**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/15/23 15:00

**Customer ID:**

**Delivery Date:** 5/18/23 11:17

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD09441

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09441	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.84	-0.001	1.82	1.80 to 2.20	92.0	90.0 to 110	0.00	15.0
BD09411	Solids, Dissolved	mg/L	0.0000	25.0			500	50.0	40.0 to 60.0			0.803	10.0

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**Comments:**

# Definitions

**Project Number:** WMWGREAP\_1413

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



**Chain of Custody**  
**Groundwater**  
 APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: TJ Daugherty		Requested By: Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-52HO	05/15/2023	14:10	6	Groundwater		BD09438	<input checked="" type="checkbox"/>
MW-52HO Dup	05/15/2023	14:10	6	Sample Duplicate		BD09439	<input checked="" type="checkbox"/>
EB-1	05/15/2023	14:45	5	Equipment Blank		BD09440	<input checked="" type="checkbox"/>
FB-1	05/15/2023	15:00	5	Field Blank		BD09441	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
		05/18/2023 10:29

SmarTroll ID	7586-41445-5-4	Cooler Temp	1.7 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1413	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Radium MS/MSD collected at MW-52HO

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-52HO	05/15/2023	14:10	3	Groundwater		BD09442	<input checked="" type="checkbox"/>
MW-52HO Dup	05/15/2023	14:10	1	Sample Duplicate		BD09443	<input checked="" type="checkbox"/>
EB-1	05/15/2023	14:45	1	Equipment Blank		BD09444	<input checked="" type="checkbox"/>
FB-1	05/15/2023	15:00	1	Field Blank		BD09445	<input checked="" type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Brooks</i>	05/18/2023 10:29

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1413	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks

Alabama Power  
General Test Laboratory  
744 County Road 87, GSC #8  
Calera, AL 35040  
205-664-6001

# *Analytical Report*



**Sample Group :** WMWGREAP\_1411

**Project/Site :** Greene County Ash Pond  
Demopolis, AL 36732

**For :** Southern Company Services  
3535 Colonnade Parkway  
Birmingham, AL 35243

**Attention :** Dustin Brooks & Greg Dyer

**Released By :** Brooke Caton  
tbwill@southernco.com  
(205) 664-6101

June 21, 2023

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on May 24, 2023. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114  
Issued By: State of Florida, Department of Health  
Expiration: June 30, 2023

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Quality Control: **Brooke  
Caton**

Digitally signed by Brooke  
Caton  
Date: 2023.06.21  
15:34:03 -05'00'

Supervision: **T Durant  
Maske**

Digitally signed by T Durant Maske  
DN: cn=T Durant Maske, o=T Durant Maske c=US  
United States, +US United States  
e=tmaske@southernco.com  
Reason: I am the author of this document  
Location:  
Date: 2023-06-22 15:34-05:00



### REPORT OF LABORATORY ANALYSIS

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Alabama Power's General Test Laboratory.



Total Metals ICP

Greene Co. Ash Pond

WMWGREAP\_1411

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09688	756383	WMWGREAP_1411
BD09689	756383	WMWGREAP_1411
BD09690	756383	WMWGREAP_1411
BD09691	756383	WMWGREAP_1411
BD09692	756383	WMWGREAP_1411
BD09693	756383	WMWGREAP_1411
BD09694	756383	WMWGREAP_1411
BD09695	756383	WMWGREAP_1411
BD09696	756383	WMWGREAP_1411
BD09697	756383	WMWGREAP_1411
BD09698	756384	WMWGREAP_1411

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed, and all acceptance criteria were met.



- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

#### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
    - BD09697 Calcium MS/MSD spike levels were <30% of the sample concentrations.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09696	Calcium	10.15
BD09697	Calcium	10.15

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICP

Greene Co. Ash Pond

WMWGREAP\_1411

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
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3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09688	756479	WMWGREAP_1411
BD09689	756479	WMWGREAP_1411
BD09691	756479	WMWGREAP_1411
BD09693	756479	WMWGREAP_1411
BD09694	756479	WMWGREAP_1411
BD09695	756479	WMWGREAP_1411
BD09696	756479	WMWGREAP_1411
BD09697	756479	WMWGREAP_1411
BD09698	756479	WMWGREAP_1411

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any

qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09696	Calcium	10.15
BD09697	Calcium	10.15

8. The raw data results are shown with dilution factors included.

Total Metals ICPMS

Greene Co. Ash Pond

WMWGREAP\_1411

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09688	756844	WMWGREAP_1411
BD09689	756844	WMWGREAP_1411
BD09690	756844	WMWGREAP_1411
BD09691	756844	WMWGREAP_1411
BD09692	756844	WMWGREAP_1411
BD09693	756844	WMWGREAP_1411
BD09694	756844	WMWGREAP_1411
BD09695	756844	WMWGREAP_1411
BD09696	756844	WMWGREAP_1411
BD09697	756844	WMWGREAP_1411
BD09698	756845	WMWGREAP_1411

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.

- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

#### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
    - BD09697 Manganese MS/MSD spike levels were <30% of the sample concentrations.
    - BD09697 Aluminum MS recovery and/or MSD recovery is outside of specification limit.
    - BD09698 Aluminum MS recovery and/or MSD recovery is outside of specification limit.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09696	Manganese	10.15
BD09697	Manganese	5.075

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Greene Co. Ash Pond

WMWGREAP\_1411

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09688	756846	WMWGREAP_1411
BD09689	756846	WMWGREAP_1411
BD09691	756846	WMWGREAP_1411
BD09693	756846	WMWGREAP_1411
BD09694	756846	WMWGREAP_1411
BD09695	756846	WMWGREAP_1411
BD09696	756846	WMWGREAP_1411
BD09697	756846	WMWGREAP_1411
BD09698	756846	WMWGREAP_1411

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional

QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09696	Manganese	10.15
BD09697	Manganese	5.075

8. The raw data results are shown with dilution factors included.

Mercury

Greene Co. Ash Pond

WMWGREAP\_1411

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09688	756363	WMWGREAP_1411
BD09689	756363	WMWGREAP_1411
BD09690	756363	WMWGREAP_1411
BD09691	756363	WMWGREAP_1411
BD09692	756363	WMWGREAP_1411
BD09693	756363	WMWGREAP_1411
BD09694	756363	WMWGREAP_1411
BD09695	756363	WMWGREAP_1411
BD09696	756363	WMWGREAP_1411
BD09697	756363	WMWGREAP_1411
BD09698	756364	WMWGREAP_1411

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.



### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.

Total Dissolved Solids

Greene Co. Ash Pond

WMWGREAP\_1411

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09688	756300	WMWGREAP_1411
BD09689	756300	WMWGREAP_1411
BD09690	756300	WMWGREAP_1411
BD09691	756300	WMWGREAP_1411
BD09692	756300	WMWGREAP_1411
BD09693	756300	WMWGREAP_1411
BD09694	756301	WMWGREAP_1411
BD09695	756301	WMWGREAP_1411
BD09696	756301	WMWGREAP_1411
BD09697	756301	WMWGREAP_1411
BD09698	756301	WMWGREAP_1411

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was  $\leq 10\%$ .
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue  $< 2.5\text{mg}$  had the maximum volume of 150mL filtered. Affected samples are as follows:
  - BD09690
  - BD09692

Alkalinity

Greene Co. Ash Pond

WMWGREAP\_1411

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09688	756682, 756683, 756684	WMWGREAP_1411
BD09689	756682, 756683, 756684	WMWGREAP_1411
BD09691	756682, 756683, 756684	WMWGREAP_1411
BD09693	756682, 756683, 756684	WMWGREAP_1411
BD09694	756682, 756683, 756684	WMWGREAP_1411
BD09695	756682, 756683, 756684	WMWGREAP_1411
BD09696	756682, 756683, 756684	WMWGREAP_1411
BD09697	756682, 756683, 756684	WMWGREAP_1411
BD09698	756682, 756683, 756684	WMWGREAP_1411

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.

Anions

Greene Co. Ash Pond

WMWGREAP\_1411

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09688	756415, 756417, 757352	WMWGREAP_1411
BD09689	756415, 756417, 757352	WMWGREAP_1411
BD09690	756415, 756417, 757352	WMWGREAP_1411
BD09691	756415, 756417, 757352	WMWGREAP_1411
BD09692	756415, 756417, 757352	WMWGREAP_1411
BD09693	756415, 756417, 757352	WMWGREAP_1411
BD09694	756415, 756417, 757352	WMWGREAP_1411
BD09695	756415, 756417, 757352	WMWGREAP_1411
BD09696	756415, 756417, 757352	WMWGREAP_1411
BD09697	756415, 756417, 757352	WMWGREAP_1411
BD09698	756416, 756418, 757353	WMWGREAP_1411

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Revision 5

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09696	Sulfate	10
BD09697	Sulfate	8

8. The raw data results are shown with dilution factors included.

Nitrate-Nitrite

Greene Co. Ash Pond

WMWGREAP\_1411

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09688	756449	WMWGREAP_1411
BD09689	756449	WMWGREAP_1411
BD09690	756449	WMWGREAP_1411
BD09691	756449	WMWGREAP_1411
BD09692	756449	WMWGREAP_1411
BD09693	756449	WMWGREAP_1411
BD09694	756449	WMWGREAP_1411
BD09695	756449	WMWGREAP_1411
BD09696	756449	WMWGREAP_1411
BD09697	756449	WMWGREAP_1411
BD09698	756450	WMWGREAP_1411

4. All of the above samples were prepared and analyzed for NO<sub>x</sub> by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

#### EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
  - A sample duplicate was run and criteria for precision was met.

- A matrix spike was run and criteria for accuracy was met.
7. All samples were analyzed without a dilution factor.
  8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Greene Co. Ash Pond

WMWGREAP\_1411

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2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09688	756306	WMWGREAP_1411
BD09689	756306	WMWGREAP_1411
BD09690	756306	WMWGREAP_1411
BD09691	756306	WMWGREAP_1411
BD09692	756306	WMWGREAP_1411
BD09693	756306	WMWGREAP_1411
BD09694	756306	WMWGREAP_1411
BD09695	756306	WMWGREAP_1411
BD09696	756306	WMWGREAP_1411
BD09697	756306	WMWGREAP_1411
BD09698	756307	WMWGREAP_1411

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

#### Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.



7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-62HO

**Location Code:** WMWGREAP  
**Collected:** 5/22/23 12:25  
**Customer ID:**  
**Submittal Date:** 5/24/23 11:45

**Laboratory ID Number:** BD09688

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/25/23 14:07	5/26/23 11:45		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/25/23 14:07	5/26/23 11:45		1.015	9.84	mg/L	0.070035	0.406	
* Iron, Total	5/25/23 14:07	5/26/23 11:45		1.015	0.374	mg/L	0.008120	0.0406	
* Lithium, Total	5/25/23 14:07	5/26/23 11:45		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/25/23 14:07	5/26/23 11:45		1.015	1.15	mg/L	0.021315	0.406	
* Molybdenum, Total	5/25/23 14:07	5/26/23 11:45		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 11:45		1	7.70	mg/L			
* Silicon, Total	5/25/23 14:07	5/26/23 11:45		1.015	3.60	mg/L	0.02030	0.25375	
* Sodium, Total	5/25/23 14:07	5/26/23 11:45		1.015	2.15	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/25/23 12:47	5/26/23 14:11		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	5/25/23 12:47	5/26/23 14:11		1.015	9.79	mg/L	0.070035	0.406	
* Iron, Dissolved	5/25/23 12:47	5/26/23 14:11		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/25/23 12:47	5/26/23 14:11		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/25/23 12:47	5/26/23 14:11		1.015	1.09	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/25/23 12:47	5/26/23 14:11		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/25/23 12:47	5/26/23 14:11		1	6.63	mg/L			
* Silicon, Dissolved	5/25/23 12:47	5/26/23 14:11		1.015	3.10	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/25/23 12:47	5/26/23 14:11		1.015	2.16	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/25/23 14:07	5/30/23 16:36		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/25/23 14:07	5/30/23 16:36		1.015	0.184	mg/L	0.009135	0.05075	
* Arsenic, Total	5/25/23 14:07	5/30/23 16:36		1.015	0.000284	mg/L	0.000112	0.000203	
* Barium, Total	5/25/23 14:07	5/30/23 16:36		1.015	0.0767	mg/L	0.000508	0.001015	
* Beryllium, Total	5/25/23 14:07	5/30/23 16:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/25/23 14:07	5/30/23 16:36		1.015	0.0000746	mg/L	0.000068	0.000203	J
* Chromium, Total	5/25/23 14:07	5/30/23 16:36		1.015	0.000466	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/25/23 14:07	5/30/23 16:36		1.015	0.000552	mg/L	0.000068	0.000203	
* Lead, Total	5/25/23 14:07	5/30/23 16:36		1.015	0.000234	mg/L	0.000068	0.000203	
* Manganese, Total	5/25/23 14:07	5/30/23 16:36		1.015	0.0302	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-62HO

**Location Code:** WMWGREAP  
**Collected:** 5/22/23 12:25  
**Customer ID:**  
**Submittal Date:** 5/24/23 11:45

**Laboratory ID Number:** BD09688

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 16:36		1.015	0.791	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 16:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/25/23 14:07	5/30/23 16:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 12:47	5/30/23 12:37		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 12:47	5/30/23 12:37		1.015	0.0101	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	5/25/23 12:47	5/30/23 12:37		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	5/25/23 12:47	5/30/23 12:37		1.015	0.0717	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 12:47	5/30/23 12:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 12:47	5/30/23 12:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 12:47	5/30/23 12:37		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/25/23 12:47	5/30/23 12:37		1.015	0.000125	mg/L	0.000068	0.000203	J
* Lead, Dissolved	5/25/23 12:47	5/30/23 12:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/25/23 12:47	5/30/23 12:37		1.015	0.0106	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/25/23 12:47	5/30/23 12:37		1.015	0.770	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 12:47	5/30/23 12:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/25/23 12:47	5/30/23 12:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/25/23 22:26		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 08:48	5/25/23 08:48		1	0.243	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/31/23 12:25	5/31/23 14:04		1	17.1	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:15	5/30/23 10:15		1	50.7	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/31/23 12:25	5/31/23 14:04		1	17.1	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/31/23 12:25	5/31/23 14:04		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 09:28	5/25/23 09:28		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-62HO

**Location Code:** WMWGREAP

**Collected:** 5/22/23 12:25

**Customer ID:**

**Submittal Date:** 5/24/23 11:45

**Laboratory ID Number:** BD09688

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 14:34	5/24/23 14:34		1	2.05	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:31	5/25/23 10:31		1	0.0868	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 14:34	6/6/23 14:34		1	13.4	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/22/23 12:22	5/22/23 12:22			68.60	uS/cm			FA
pH	5/22/23 12:22	5/22/23 12:22			5.81	SU			FA
Temperature	5/22/23 12:22	5/22/23 12:22			19.24	C			FA
Turbidity	5/22/23 12:22	5/22/23 12:22			8.54	NTU			FA
Sulfide	5/22/23 12:22	5/22/23 12:22			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 12:25

**Customer ID:**

**Delivery Date:** 5/24/23 11:45

**Description:** Greene County Ash Pond - MW-62HO

**Laboratory ID Number:** BD09688

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09698	Aluminum, Dissolved	mg/L	0.000268	0.0198	0.100	0.118	0.115	0.105	0.0850 to 0.115	102	70.0 to 130	2.58	20.0
BD09697	Aluminum, Total	mg/L	0.000881	0.0198	0.100	0.196	0.219	0.107	0.0850 to 0.115	119	70.0 to 130	11.1	20.0
BD09698	Antimony, Dissolved	mg/L	0.000431	0.00100	0.100	0.0989	0.0983	0.0950	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0
BD09697	Antimony, Total	mg/L	0.000458	0.00100	0.100	0.110	0.109	0.100	0.0850 to 0.115	110	70.0 to 130	0.913	20.0
BD09698	Arsenic, Dissolved	mg/L	0.0000204	0.000200	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09697	Arsenic, Total	mg/L	0.0000366	0.000200	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD09698	Barium, Dissolved	mg/L	0.0000163	0.00100	0.100	0.128	0.131	0.102	0.0850 to 0.115	98.5	70.0 to 130	2.32	20.0
BD09697	Barium, Total	mg/L	0.0000072	0.00100	0.100	0.177	0.175	0.102	0.0850 to 0.115	106	70.0 to 130	1.14	20.0
BD09698	Beryllium, Dissolved	mg/L	0.0000492	0.000880	0.100	0.0955	0.0978	0.101	0.0850 to 0.115	95.5	70.0 to 130	2.38	20.0
BD09697	Beryllium, Total	mg/L	0.0000613	0.000880	0.100	0.0946	0.0921	0.0932	0.0850 to 0.115	94.6	70.0 to 130	2.68	20.0
BD09698	Boron, Dissolved	mg/L	0.000260	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09697	Boron, Total	mg/L	0.000664	0.0650	1.00	1.38	1.38	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09698	Cadmium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.0957	0.0973	0.0965	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BD09697	Cadmium, Total	mg/L	0.0000229	0.000147	0.100	0.111	0.110	0.111	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD09698	Calcium, Dissolved	mg/L	0.00492	0.152	5.00	6.90	7.06	5.00	4.25 to 5.75	96.2	70.0 to 130	2.29	20.0
BD09697	Calcium, Total	mg/L	-0.00276	0.152	5.00	56.1	60.0	5.30	4.25 to 5.75	92.0	70.0 to 130	6.72	20.0
BD09697	Chloride	mg/L	-0.052	1.00	10.0	23.1	23.0	10.0	9.00 to 11.0	90.0	80.0 to 120	0.434	20.0
BD09698	Chromium, Dissolved	mg/L	-0.0000242	0.000440	0.100	0.100	0.0992	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.803	20.0
BD09697	Chromium, Total	mg/L	0.0000388	0.000440	0.100	0.103	0.100	0.103	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BD09698	Cobalt, Dissolved	mg/L	-0.0000126	0.000147	0.100	0.0995	0.0984	0.102	0.0850 to 0.115	98.7	70.0 to 130	1.11	20.0
BD09697	Cobalt, Total	mg/L	-0.0000064	0.000147	0.100	0.107	0.105	0.100	0.0850 to 0.115	100	70.0 to 130	1.89	20.0
BD09697	Fluoride	mg/L	0.040	0.125	2.50	2.39	2.79	2.57	2.25 to 2.75	90.2	80.0 to 120	15.4	20.0
BD09698	Iron, Dissolved	mg/L	0.00323	0.0176	0.2	0.205	0.205	0.209	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD09697	Iron, Total	mg/L	0.000586	0.0176	0.2	0.527	0.498	0.211	0.170 to 0.230	128	70.0 to 130	5.66	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 12:25

**Customer ID:**

**Delivery Date:** 5/24/23 11:45

**Description:** Greene County Ash Pond - MW-62HO

**Laboratory ID Number:** BD09688

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09698	Lead, Dissolved	mg/L	0.0000178	0.000147	0.100	0.105	0.105	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09697	Lead, Total	mg/L	0.0000206	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD09698	Lithium, Dissolved	mg/L	0.000446	0.0154	0.200	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09697	Lithium, Total	mg/L	0.00115	0.0154	0.200	0.268	0.272	0.200	0.170 to 0.230	97.2	70.0 to 130	1.48	20.0
BD09698	Magnesium, Dissolved	mg/L	0.00588	0.0462	5.00	6.31	6.41	4.99	4.25 to 5.75	96.6	70.0 to 130	1.57	20.0
BD09697	Magnesium, Total	mg/L	0.00203	0.0462	5.00	12.1	12.1	5.19	4.25 to 5.75	98.4	70.0 to 130	0.00	20.0
BD09698	Manganese, Dissolved	mg/L	-0.0000532	0.00033	0.100	0.115	0.114	0.107	0.0850 to 0.115	106	70.0 to 130	0.873	20.0
BD09697	Manganese, Total	mg/L	0.0000837	0.00033	0.100	5.06	5.00	0.107	0.0850 to 0.115	170	70.0 to 130	1.19	20.0
BD09697	Mercury, Total by CVAA	mg/L	-0.0001	0.000500	0.004	0.00387	0.00387	0.00382	0.00340 to 0.00460	96.8	70.0 to 130	0.00	20.0
BD09698	Molybdenum, Dissolved	mg/L	0.00182	0.0100	0.2	0.198	0.199	0.202	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD09697	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.200	0.201	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD09698	Potassium, Dissolved	mg/L	0.0233	0.367	10.0	11.5	11.4	10.3	8.50 to 11.5	99.5	70.0 to 130	0.873	20.0
BD09697	Potassium, Total	mg/L	0.0269	0.367	10.0	16.0	15.5	10.4	8.50 to 11.5	105	70.0 to 130	3.17	20.0
BD09698	Selenium, Dissolved	mg/L	0.000138	0.00100	0.100	0.101	0.100	0.104	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD09697	Selenium, Total	mg/L	0.0000657	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD09698	Silicon, Dissolved	mg/L	0.00125	0.0440	1.00	6.05	6.05	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09697	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.64	4.63	1.03	0.850 to 1.15	117	70.0 to 130	0.216	20.0
BD09698	Sodium, Dissolved	mg/L	0.000231	0.0880	5.00	8.54	8.61	4.97	4.25 to 5.75	96.4	70.0 to 130	0.816	20.0
BD09697	Sodium, Total	mg/L	-0.00380	0.0880	5.00	30.2	30.4	5.03	4.25 to 5.75	88.0	70.0 to 130	0.660	20.0
BD09697	Sulfate	mg/L	1.99	2.0	160	245	256	19.0	18.0 to 22.0	91.3	80.0 to 120	4.39	20.0
BD09698	Thallium, Dissolved	mg/L	-0.0000021	0.000147	0.100	0.108	0.108	0.110	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09697	Thallium, Total	mg/L	0.0000061	0.000147	0.100	0.116	0.115	0.114	0.0850 to 0.115	116	70.0 to 130	0.866	20.0
BD09697	Total Organic Carbon	mg/L	0.148	1.00	10.0	9.96	9.77	8.97		99.6	80.0 to 120	1.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 12:25

**Customer ID:**

**Delivery Date:** 5/24/23 11:45

**Description:** Greene County Ash Pond - MW-62HO

**Laboratory ID Number:** BD09688

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09697	Alkalinity	mg CaCO3/L					93.2	50.4	45.0 to 55.0			0.107	10.0
BD09697	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.98	-0.053	1.93	1.80 to 2.20	99.0	90.0 to 110	0.00	15.0
BD09693	Solids, Dissolved	mg/L	0.0000	25.0			47.3	48.0	40.0 to 60.0			2.79	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-63HO

**Location Code:** WMWGREAP  
**Collected:** 5/22/23 13:21  
**Customer ID:**  
**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09689

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	5/25/23 14:07	5/26/23 11:48		1.015	0.0326	mg/L	0.030000	0.1015	J	
* Calcium, Total	5/25/23 14:07	5/26/23 11:48		1.015	8.28	mg/L	0.070035	0.406		
* Iron, Total	5/25/23 14:07	5/26/23 11:48		1.015	0.0336	mg/L	0.008120	0.0406	J	
* Lithium, Total	5/25/23 14:07	5/26/23 11:48		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/25/23 14:07	5/26/23 11:48		1.015	1.41	mg/L	0.021315	0.406		
* Molybdenum, Total	5/25/23 14:07	5/26/23 11:48		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 11:48		1	6.38	mg/L				
* Silicon, Total	5/25/23 14:07	5/26/23 11:48		1.015	2.98	mg/L	0.02030	0.25375		
* Sodium, Total	5/25/23 14:07	5/26/23 11:48		1.015	2.69	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	5/25/23 12:47	5/26/23 14:14		1.015	0.0330	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	5/25/23 12:47	5/26/23 14:14		1.015	8.12	mg/L	0.070035	0.406		
* Iron, Dissolved	5/25/23 12:47	5/26/23 14:14		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	5/25/23 12:47	5/26/23 14:14		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/25/23 12:47	5/26/23 14:14		1.015	1.42	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	5/25/23 12:47	5/26/23 14:14		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	5/25/23 12:47	5/26/23 14:14		1	6.33	mg/L				
* Silicon, Dissolved	5/25/23 12:47	5/26/23 14:14		1.015	2.96	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/25/23 12:47	5/26/23 14:14		1.015	2.75	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	5/25/23 14:07	5/30/23 16:39		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	5/25/23 14:07	5/30/23 16:39		1.015	0.0449	mg/L	0.009135	0.05075	J	
* Arsenic, Total	5/25/23 14:07	5/30/23 16:39		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	5/25/23 14:07	5/30/23 16:39		1.015	0.0524	mg/L	0.000508	0.001015		
* Beryllium, Total	5/25/23 14:07	5/30/23 16:39		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/25/23 14:07	5/30/23 16:39		1.015	0.0000777	mg/L	0.000068	0.000203	J	
* Chromium, Total	5/25/23 14:07	5/30/23 16:39		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	5/25/23 14:07	5/30/23 16:39		1.015	0.000174	mg/L	0.000068	0.000203	J	
* Lead, Total	5/25/23 14:07	5/30/23 16:39		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	5/25/23 14:07	5/30/23 16:39		1.015	0.0118	mg/L	0.000152	0.001015		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-63HO

**Location Code:** WMWGREAP

**Collected:** 5/22/23 13:21

**Customer ID:**

**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09689

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 16:39		1.015	0.871	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 16:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/25/23 14:07	5/30/23 16:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 12:47	5/30/23 12:40		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 12:47	5/30/23 12:40		1.015	0.0216	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	5/25/23 12:47	5/30/23 12:40		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	5/25/23 12:47	5/30/23 12:40		1.015	0.0521	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 12:47	5/30/23 12:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 12:47	5/30/23 12:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 12:47	5/30/23 12:40		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/25/23 12:47	5/30/23 12:40		1.015	0.000138	mg/L	0.000068	0.000203	J
* Lead, Dissolved	5/25/23 12:47	5/30/23 12:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/25/23 12:47	5/30/23 12:40		1.015	0.0105	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/25/23 12:47	5/30/23 12:40		1.015	0.853	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 12:47	5/30/23 12:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/25/23 12:47	5/30/23 12:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/25/23 22:30		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 08:50	5/25/23 08:50		1	0.234	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/31/23 12:25	5/31/23 14:04		1	6.22	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:15	5/30/23 10:15		1	46.0	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/31/23 12:25	5/31/23 14:04		1	6.22	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/31/23 12:25	5/31/23 14:04		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 09:42	5/25/23 09:42		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-63HO

**Location Code:** WMWGREAP

**Collected:** 5/22/23 13:21

**Customer ID:**

**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09689

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 14:35	5/24/23 14:35		1	2.59	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:32	5/25/23 10:32		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 14:35	6/6/23 14:35		1	21.2	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/22/23 13:18	5/22/23 13:18			72.28	uS/cm			FA
pH	5/22/23 13:18	5/22/23 13:18			5.05	SU			FA
Temperature	5/22/23 13:18	5/22/23 13:18			18.94	C			FA
Turbidity	5/22/23 13:18	5/22/23 13:18			4.85	NTU			FA
Sulfide	5/22/23 13:18	5/22/23 13:18			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 13:21

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-63HO

**Laboratory ID Number:** BD09689

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09698	Aluminum, Dissolved	mg/L	0.000268	0.0198	0.100	0.118	0.115	0.105	0.0850 to 0.115	102	70.0 to 130	2.58	20.0
BD09697	Aluminum, Total	mg/L	0.000881	0.0198	0.100	0.196	0.219	0.107	0.0850 to 0.115	119	70.0 to 130	11.1	20.0
BD09698	Antimony, Dissolved	mg/L	0.000431	0.00100	0.100	0.0989	0.0983	0.0950	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0
BD09697	Antimony, Total	mg/L	0.000458	0.00100	0.100	0.110	0.109	0.100	0.0850 to 0.115	110	70.0 to 130	0.913	20.0
BD09698	Arsenic, Dissolved	mg/L	0.0000204	0.000200	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09697	Arsenic, Total	mg/L	0.0000366	0.000200	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD09698	Barium, Dissolved	mg/L	0.0000163	0.00100	0.100	0.128	0.131	0.102	0.0850 to 0.115	98.5	70.0 to 130	2.32	20.0
BD09697	Barium, Total	mg/L	0.0000072	0.00100	0.100	0.177	0.175	0.102	0.0850 to 0.115	106	70.0 to 130	1.14	20.0
BD09698	Beryllium, Dissolved	mg/L	0.0000492	0.000880	0.100	0.0955	0.0978	0.101	0.0850 to 0.115	95.5	70.0 to 130	2.38	20.0
BD09697	Beryllium, Total	mg/L	0.0000613	0.000880	0.100	0.0946	0.0921	0.0932	0.0850 to 0.115	94.6	70.0 to 130	2.68	20.0
BD09698	Boron, Dissolved	mg/L	0.000260	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09697	Boron, Total	mg/L	0.000664	0.0650	1.00	1.38	1.38	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09698	Cadmium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.0957	0.0973	0.0965	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BD09697	Cadmium, Total	mg/L	0.0000229	0.000147	0.100	0.111	0.110	0.111	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD09698	Calcium, Dissolved	mg/L	0.00492	0.152	5.00	6.90	7.06	5.00	4.25 to 5.75	96.2	70.0 to 130	2.29	20.0
BD09697	Calcium, Total	mg/L	-0.00276	0.152	5.00	56.1	60.0	5.30	4.25 to 5.75	92.0	70.0 to 130	6.72	20.0
BD09697	Chloride	mg/L	-0.052	1.00	10.0	23.1	23.0	10.0	9.00 to 11.0	90.0	80.0 to 120	0.434	20.0
BD09698	Chromium, Dissolved	mg/L	-0.0000242	0.000440	0.100	0.100	0.0992	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.803	20.0
BD09697	Chromium, Total	mg/L	0.0000388	0.000440	0.100	0.103	0.100	0.103	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BD09698	Cobalt, Dissolved	mg/L	-0.0000126	0.000147	0.100	0.0995	0.0984	0.102	0.0850 to 0.115	98.7	70.0 to 130	1.11	20.0
BD09697	Cobalt, Total	mg/L	-0.0000064	0.000147	0.100	0.107	0.105	0.100	0.0850 to 0.115	100	70.0 to 130	1.89	20.0
BD09697	Fluoride	mg/L	0.040	0.125	2.50	2.39	2.79	2.57	2.25 to 2.75	90.2	80.0 to 120	15.4	20.0
BD09698	Iron, Dissolved	mg/L	0.00323	0.0176	0.2	0.205	0.205	0.209	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD09697	Iron, Total	mg/L	0.000586	0.0176	0.2	0.527	0.498	0.211	0.170 to 0.230	128	70.0 to 130	5.66	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 13:21

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-63HO

**Laboratory ID Number:** BD09689

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09698	Lead, Dissolved	mg/L	0.0000178	0.000147	0.100	0.105	0.105	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09697	Lead, Total	mg/L	0.0000206	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD09698	Lithium, Dissolved	mg/L	0.000446	0.0154	0.200	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09697	Lithium, Total	mg/L	0.00115	0.0154	0.200	0.268	0.272	0.200	0.170 to 0.230	97.2	70.0 to 130	1.48	20.0
BD09698	Magnesium, Dissolved	mg/L	0.00588	0.0462	5.00	6.31	6.41	4.99	4.25 to 5.75	96.6	70.0 to 130	1.57	20.0
BD09697	Magnesium, Total	mg/L	0.00203	0.0462	5.00	12.1	12.1	5.19	4.25 to 5.75	98.4	70.0 to 130	0.00	20.0
BD09698	Manganese, Dissolved	mg/L	-0.0000532	0.00033	0.100	0.115	0.114	0.107	0.0850 to 0.115	106	70.0 to 130	0.873	20.0
BD09697	Manganese, Total	mg/L	0.0000837	0.00033	0.100	5.06	5.00	0.107	0.0850 to 0.115	170	70.0 to 130	1.19	20.0
BD09697	Mercury, Total by CVAA	mg/L	-0.0001	0.000500	0.004	0.00387	0.00387	0.00382	0.00340 to 0.00460	96.8	70.0 to 130	0.00	20.0
BD09698	Molybdenum, Dissolved	mg/L	0.00182	0.0100	0.2	0.198	0.199	0.202	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD09697	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.200	0.201	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD09698	Potassium, Dissolved	mg/L	0.0233	0.367	10.0	11.5	11.4	10.3	8.50 to 11.5	99.5	70.0 to 130	0.873	20.0
BD09697	Potassium, Total	mg/L	0.0269	0.367	10.0	16.0	15.5	10.4	8.50 to 11.5	105	70.0 to 130	3.17	20.0
BD09698	Selenium, Dissolved	mg/L	0.000138	0.00100	0.100	0.101	0.100	0.104	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD09697	Selenium, Total	mg/L	0.0000657	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD09698	Silicon, Dissolved	mg/L	0.00125	0.0440	1.00	6.05	6.05	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09697	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.64	4.63	1.03	0.850 to 1.15	117	70.0 to 130	0.216	20.0
BD09698	Sodium, Dissolved	mg/L	0.000231	0.0880	5.00	8.54	8.61	4.97	4.25 to 5.75	96.4	70.0 to 130	0.816	20.0
BD09697	Sodium, Total	mg/L	-0.00380	0.0880	5.00	30.2	30.4	5.03	4.25 to 5.75	88.0	70.0 to 130	0.660	20.0
BD09697	Sulfate	mg/L	1.99	2.0	160	245	256	19.0	18.0 to 22.0	91.3	80.0 to 120	4.39	20.0
BD09698	Thallium, Dissolved	mg/L	-0.0000021	0.000147	0.100	0.108	0.108	0.110	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09697	Thallium, Total	mg/L	0.0000061	0.000147	0.100	0.116	0.115	0.114	0.0850 to 0.115	116	70.0 to 130	0.866	20.0
BD09697	Total Organic Carbon	mg/L	0.148	1.00	10.0	9.96	9.77	8.97		99.6	80.0 to 120	1.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 13:21

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-63HO

**Laboratory ID Number:** BD09689

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09697	Alkalinity	mg CaCO3/L					93.2	50.4	45.0 to 55.0			0.107	10.0
BD09697	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.98	-0.053	1.93	1.80 to 2.20	99.0	90.0 to 110	0.00	15.0
BD09693	Solids, Dissolved	mg/L	0.0000	25.0			47.3	48.0	40.0 to 60.0			2.79	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-1

**Location Code:** WMWGREAPFB  
**Collected:** 5/22/23 13:40  
**Customer ID:**  
**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09690

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	5/25/23 14:07	5/26/23 11:52		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/25/23 14:07	5/26/23 11:52		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	5/25/23 14:07	5/26/23 11:52		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	5/25/23 14:07	5/26/23 11:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/25/23 14:07	5/26/23 11:52		1.015	Not Detected	mg/L	0.021315	0.406	U	
* Molybdenum, Total	5/25/23 14:07	5/26/23 11:52		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 11:52		1	Not Detected	mg/L				
* Silicon, Total	5/25/23 14:07	5/26/23 11:52		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	5/25/23 14:07	5/26/23 11:52		1.015	Not Detected	mg/L	0.04060	0.406	U	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	5/25/23 14:07	5/30/23 16:43		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	5/25/23 14:07	5/30/23 16:43		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	5/25/23 14:07	5/30/23 16:43		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	5/25/23 14:07	5/30/23 16:43		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	5/25/23 14:07	5/30/23 16:43		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/25/23 14:07	5/30/23 16:43		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	5/25/23 14:07	5/30/23 16:43		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	5/25/23 14:07	5/30/23 16:43		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	5/25/23 14:07	5/30/23 16:43		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	5/25/23 14:07	5/30/23 16:43		1.015	Not Detected	mg/L	0.000152	0.001015	U	
* Potassium, Total	5/25/23 14:07	5/30/23 16:43		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	5/25/23 14:07	5/30/23 16:43		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	5/25/23 14:07	5/30/23 16:43		1.015	Not Detected	mg/L	0.000068	0.000203	U	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>								
* Mercury, Total by CVAA	5/25/23 18:02	5/25/23 22:34		1	Not Detected	mg/L	0.0003	0.0005	U	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>								
* Nitrogen, Nitrate/Nitrite	5/25/23 08:52	5/25/23 08:52		1	Not Detected	mg/L as N	0.20	0.3	U	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>								
* Solids, Dissolved	5/24/23 14:15	5/30/23 10:15		1	Not Detected	mg/L		25	U	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-1

**Location Code:** WMWGREAPFB

**Collected:** 5/22/23 13:40

**Customer ID:**

**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09690

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 09:57	5/25/23 09:57	1		Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 14:36	5/24/23 14:36	1		Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:33	5/25/23 10:33	1		Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 14:36	6/6/23 14:36	1		Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/22/23 13:40

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD09690

Sample	Analysis	Units	MB				Standard			Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09697	Aluminum, Total	mg/L	0.000881	0.0198	0.100	0.196	0.219	0.107	0.0850 to 0.115	119	70.0 to 130	11.1	20.0
BD09697	Antimony, Total	mg/L	0.000458	0.00100	0.100	0.110	0.109	0.100	0.0850 to 0.115	110	70.0 to 130	0.913	20.0
BD09697	Arsenic, Total	mg/L	0.0000366	0.000200	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD09697	Barium, Total	mg/L	0.0000072	0.00100	0.100	0.177	0.175	0.102	0.0850 to 0.115	106	70.0 to 130	1.14	20.0
BD09697	Beryllium, Total	mg/L	0.0000613	0.000880	0.100	0.0946	0.0921	0.0932	0.0850 to 0.115	94.6	70.0 to 130	2.68	20.0
BD09697	Boron, Total	mg/L	0.000664	0.0650	1.00	1.38	1.38	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09697	Cadmium, Total	mg/L	0.0000229	0.000147	0.100	0.111	0.110	0.111	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD09697	Calcium, Total	mg/L	-0.00276	0.152	5.00	56.1	60.0	5.30	4.25 to 5.75	92.0	70.0 to 130	6.72	20.0
BD09697	Chloride	mg/L	-0.052	1.00	10.0	23.1	23.0	10.0	9.00 to 11.0	90.0	80.0 to 120	0.434	20.0
BD09697	Chromium, Total	mg/L	0.0000388	0.000440	0.100	0.103	0.100	0.103	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BD09697	Cobalt, Total	mg/L	-0.0000064	0.000147	0.100	0.107	0.105	0.100	0.0850 to 0.115	100	70.0 to 130	1.89	20.0
BD09697	Fluoride	mg/L	0.040	0.125	2.50	2.39	2.79	2.57	2.25 to 2.75	90.2	80.0 to 120	15.4	20.0
BD09697	Iron, Total	mg/L	0.000586	0.0176	0.2	0.527	0.498	0.211	0.170 to 0.230	128	70.0 to 130	5.66	20.0
BD09697	Lead, Total	mg/L	0.0000206	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD09697	Lithium, Total	mg/L	0.00115	0.0154	0.200	0.268	0.272	0.200	0.170 to 0.230	97.2	70.0 to 130	1.48	20.0
BD09697	Magnesium, Total	mg/L	0.00203	0.0462	5.00	12.1	12.1	5.19	4.25 to 5.75	98.4	70.0 to 130	0.00	20.0
BD09697	Manganese, Total	mg/L	0.0000837	0.00033	0.100	5.06	5.00	0.107	0.0850 to 0.115	170	70.0 to 130	1.19	20.0
BD09697	Mercury, Total by CVAA	mg/L	-0.0001	0.000500	0.004	0.00387	0.00387	0.00382	0.00340 to 0.00460	96.8	70.0 to 130	0.00	20.0
BD09697	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.200	0.201	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD09697	Potassium, Total	mg/L	0.0269	0.367	10.0	16.0	15.5	10.4	8.50 to 11.5	105	70.0 to 130	3.17	20.0
BD09697	Selenium, Total	mg/L	0.0000657	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD09697	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.64	4.63	1.03	0.850 to 1.15	117	70.0 to 130	0.216	20.0
BD09697	Sodium, Total	mg/L	-0.00380	0.0880	5.00	30.2	30.4	5.03	4.25 to 5.75	88.0	70.0 to 130	0.660	20.0
BD09697	Sulfate	mg/L	1.99	2.0	160	245	256	19.0	18.0 to 22.0	91.3	80.0 to 120	4.39	20.0

**Comments:**



# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/22/23 13:40

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD09690

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD09697	Thallium, Total	mg/L	0.0000061	0.000147	0.100	0.116	0.115	0.114	0.0850 to 0.115	116	70.0 to 130	0.866	20.0
BD09697	Total Organic Carbon	mg/L	0.148	1.00	10.0	9.96	9.77	8.97		99.6	80.0 to 120	1.93	20.0

**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/22/23 13:40

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD09690

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09697	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.98	-0.053	1.93	1.80 to 2.20	99.0	90.0 to 110	0.00	15.0
BD09693	Solids, Dissolved	mg/L	0.0000	25.0			47.3	48.0	40.0 to 60.0			2.79	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-47HO

**Location Code:** WMWGREAP  
**Collected:** 5/22/23 14:22  
**Customer ID:**  
**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09691

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/25/23 14:07	5/26/23 11:55		1.015	0.0956	mg/L	0.030000	0.1015	J
* Calcium, Total	5/25/23 14:07	5/26/23 11:55		1.015	13.2	mg/L	0.070035	0.406	
* Iron, Total	5/25/23 14:07	5/26/23 11:55		1.015	0.0416	mg/L	0.008120	0.0406	
* Lithium, Total	5/25/23 14:07	5/26/23 11:55		1.015	0.0366	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/25/23 14:07	5/26/23 11:55		1.015	3.56	mg/L	0.021315	0.406	
* Molybdenum, Total	5/25/23 14:07	5/26/23 11:55		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 11:55		1	6.38	mg/L			
* Silicon, Total	5/25/23 14:07	5/26/23 11:55		1.015	2.98	mg/L	0.02030	0.25375	
* Sodium, Total	5/25/23 14:07	5/26/23 11:55		1.015	8.56	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/25/23 12:47	5/26/23 14:17		1.015	0.0953	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/25/23 12:47	5/26/23 14:17		1.015	12.6	mg/L	0.070035	0.406	
* Iron, Dissolved	5/25/23 12:47	5/26/23 14:17		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/25/23 12:47	5/26/23 14:17		1.015	0.0366	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/25/23 12:47	5/26/23 14:17		1.015	3.51	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/25/23 12:47	5/26/23 14:17		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/25/23 12:47	5/26/23 14:17		1	6.25	mg/L			
* Silicon, Dissolved	5/25/23 12:47	5/26/23 14:17		1.015	2.92	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/25/23 12:47	5/26/23 14:17		1.015	8.59	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/25/23 14:07	5/30/23 16:47		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/25/23 14:07	5/30/23 16:47		1.015	0.0255	mg/L	0.009135	0.05075	J
* Arsenic, Total	5/25/23 14:07	5/30/23 16:47		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	5/25/23 14:07	5/30/23 16:47		1.015	0.0229	mg/L	0.000508	0.001015	
* Beryllium, Total	5/25/23 14:07	5/30/23 16:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/25/23 14:07	5/30/23 16:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/25/23 14:07	5/30/23 16:47		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/25/23 14:07	5/30/23 16:47		1.015	0.0000755	mg/L	0.000068	0.000203	J
* Lead, Total	5/25/23 14:07	5/30/23 16:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/25/23 14:07	5/30/23 16:47		1.015	0.0261	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-47HO

**Location Code:** WMWGREAP  
**Collected:** 5/22/23 14:22  
**Customer ID:**  
**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09691

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 16:47		1.015	2.80	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 16:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/25/23 14:07	5/30/23 16:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 12:47	5/30/23 12:44		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 12:47	5/30/23 12:44		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/25/23 12:47	5/30/23 12:44		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	5/25/23 12:47	5/30/23 12:44		1.015	0.0224	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 12:47	5/30/23 12:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 12:47	5/30/23 12:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 12:47	5/30/23 12:44		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/25/23 12:47	5/30/23 12:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/25/23 12:47	5/30/23 12:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/25/23 12:47	5/30/23 12:44		1.015	0.0256	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/25/23 12:47	5/30/23 12:44		1.015	2.83	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 12:47	5/30/23 12:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/25/23 12:47	5/30/23 12:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/25/23 22:38		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 08:54	5/25/23 08:54		1	0.275	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/31/23 12:25	5/31/23 14:04		1	26.0	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:15	5/30/23 10:15		1	89.3	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/31/23 12:25	5/31/23 14:04		1	26.0	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/31/23 12:25	5/31/23 14:04		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 10:12	5/25/23 10:12		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-47HO

**Location Code:** WMWGREAP

**Collected:** 5/22/23 14:22

**Customer ID:**

**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09691

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 14:37	5/24/23 14:37		1	3.95	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:35	5/25/23 10:35		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 14:37	6/6/23 14:37		1	34.7	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/22/23 14:19	5/22/23 14:19			142.94	uS/cm			FA
pH	5/22/23 14:19	5/22/23 14:19			5.53	SU			FA
Temperature	5/22/23 14:19	5/22/23 14:19			20.88	C			FA
Turbidity	5/22/23 14:19	5/22/23 14:19			3.96	NTU			FA
Sulfide	5/22/23 14:19	5/22/23 14:19			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 14:22

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-47HO

**Laboratory ID Number:** BD09691

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09698	Aluminum, Dissolved	mg/L	0.000268	0.0198	0.100	0.118	0.115	0.105	0.0850 to 0.115	102	70.0 to 130	2.58	20.0
BD09697	Aluminum, Total	mg/L	0.000881	0.0198	0.100	0.196	0.219	0.107	0.0850 to 0.115	119	70.0 to 130	11.1	20.0
BD09698	Antimony, Dissolved	mg/L	0.000431	0.00100	0.100	0.0989	0.0983	0.0950	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0
BD09697	Antimony, Total	mg/L	0.000458	0.00100	0.100	0.110	0.109	0.100	0.0850 to 0.115	110	70.0 to 130	0.913	20.0
BD09698	Arsenic, Dissolved	mg/L	0.0000204	0.000200	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09697	Arsenic, Total	mg/L	0.0000366	0.000200	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD09698	Barium, Dissolved	mg/L	0.0000163	0.00100	0.100	0.128	0.131	0.102	0.0850 to 0.115	98.5	70.0 to 130	2.32	20.0
BD09697	Barium, Total	mg/L	0.0000072	0.00100	0.100	0.177	0.175	0.102	0.0850 to 0.115	106	70.0 to 130	1.14	20.0
BD09698	Beryllium, Dissolved	mg/L	0.0000492	0.000880	0.100	0.0955	0.0978	0.101	0.0850 to 0.115	95.5	70.0 to 130	2.38	20.0
BD09697	Beryllium, Total	mg/L	0.0000613	0.000880	0.100	0.0946	0.0921	0.0932	0.0850 to 0.115	94.6	70.0 to 130	2.68	20.0
BD09698	Boron, Dissolved	mg/L	0.000260	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09697	Boron, Total	mg/L	0.000664	0.0650	1.00	1.38	1.38	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09698	Cadmium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.0957	0.0973	0.0965	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BD09697	Cadmium, Total	mg/L	0.0000229	0.000147	0.100	0.111	0.110	0.111	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD09698	Calcium, Dissolved	mg/L	0.00492	0.152	5.00	6.90	7.06	5.00	4.25 to 5.75	96.2	70.0 to 130	2.29	20.0
BD09697	Calcium, Total	mg/L	-0.00276	0.152	5.00	56.1	60.0	5.30	4.25 to 5.75	92.0	70.0 to 130	6.72	20.0
BD09697	Chloride	mg/L	-0.052	1.00	10.0	23.1	23.0	10.0	9.00 to 11.0	90.0	80.0 to 120	0.434	20.0
BD09698	Chromium, Dissolved	mg/L	-0.0000242	0.000440	0.100	0.100	0.0992	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.803	20.0
BD09697	Chromium, Total	mg/L	0.0000388	0.000440	0.100	0.103	0.100	0.103	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BD09698	Cobalt, Dissolved	mg/L	-0.0000126	0.000147	0.100	0.0995	0.0984	0.102	0.0850 to 0.115	98.7	70.0 to 130	1.11	20.0
BD09697	Cobalt, Total	mg/L	-0.0000064	0.000147	0.100	0.107	0.105	0.100	0.0850 to 0.115	100	70.0 to 130	1.89	20.0
BD09697	Fluoride	mg/L	0.040	0.125	2.50	2.39	2.79	2.57	2.25 to 2.75	90.2	80.0 to 120	15.4	20.0
BD09698	Iron, Dissolved	mg/L	0.00323	0.0176	0.2	0.205	0.205	0.209	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD09697	Iron, Total	mg/L	0.000586	0.0176	0.2	0.527	0.498	0.211	0.170 to 0.230	128	70.0 to 130	5.66	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 14:22

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-47HO

**Laboratory ID Number:** BD09691

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09698	Lead, Dissolved	mg/L	0.0000178	0.000147	0.100	0.105	0.105	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09697	Lead, Total	mg/L	0.0000206	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD09698	Lithium, Dissolved	mg/L	0.000446	0.0154	0.200	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09697	Lithium, Total	mg/L	0.00115	0.0154	0.200	0.268	0.272	0.200	0.170 to 0.230	97.2	70.0 to 130	1.48	20.0
BD09698	Magnesium, Dissolved	mg/L	0.00588	0.0462	5.00	6.31	6.41	4.99	4.25 to 5.75	96.6	70.0 to 130	1.57	20.0
BD09697	Magnesium, Total	mg/L	0.00203	0.0462	5.00	12.1	12.1	5.19	4.25 to 5.75	98.4	70.0 to 130	0.00	20.0
BD09698	Manganese, Dissolved	mg/L	-0.0000532	0.00033	0.100	0.115	0.114	0.107	0.0850 to 0.115	106	70.0 to 130	0.873	20.0
BD09697	Manganese, Total	mg/L	0.0000837	0.00033	0.100	5.06	5.00	0.107	0.0850 to 0.115	170	70.0 to 130	1.19	20.0
BD09697	Mercury, Total by CVAA	mg/L	-0.0001	0.000500	0.004	0.00387	0.00387	0.00382	0.00340 to 0.00460	96.8	70.0 to 130	0.00	20.0
BD09698	Molybdenum, Dissolved	mg/L	0.00182	0.0100	0.2	0.198	0.199	0.202	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD09697	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.200	0.201	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD09698	Potassium, Dissolved	mg/L	0.0233	0.367	10.0	11.5	11.4	10.3	8.50 to 11.5	99.5	70.0 to 130	0.873	20.0
BD09697	Potassium, Total	mg/L	0.0269	0.367	10.0	16.0	15.5	10.4	8.50 to 11.5	105	70.0 to 130	3.17	20.0
BD09698	Selenium, Dissolved	mg/L	0.000138	0.00100	0.100	0.101	0.100	0.104	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD09697	Selenium, Total	mg/L	0.0000657	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD09698	Silicon, Dissolved	mg/L	0.00125	0.0440	1.00	6.05	6.05	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09697	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.64	4.63	1.03	0.850 to 1.15	117	70.0 to 130	0.216	20.0
BD09698	Sodium, Dissolved	mg/L	0.000231	0.0880	5.00	8.54	8.61	4.97	4.25 to 5.75	96.4	70.0 to 130	0.816	20.0
BD09697	Sodium, Total	mg/L	-0.00380	0.0880	5.00	30.2	30.4	5.03	4.25 to 5.75	88.0	70.0 to 130	0.660	20.0
BD09697	Sulfate	mg/L	1.99	2.0	160	245	256	19.0	18.0 to 22.0	91.3	80.0 to 120	4.39	20.0
BD09698	Thallium, Dissolved	mg/L	-0.0000021	0.000147	0.100	0.108	0.108	0.110	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09697	Thallium, Total	mg/L	0.0000061	0.000147	0.100	0.116	0.115	0.114	0.0850 to 0.115	116	70.0 to 130	0.866	20.0
BD09697	Total Organic Carbon	mg/L	0.148	1.00	10.0	9.96	9.77	8.97		99.6	80.0 to 120	1.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/22/23 14:22

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-47HO

**Laboratory ID Number:** BD09691

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09697	Alkalinity	mg CaCO3/L					93.2	50.4	45.0 to 55.0			0.107	10.0
BD09697	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.98	-0.053	1.93	1.80 to 2.20	99.0	90.0 to 110	0.00	15.0
BD09693	Solids, Dissolved	mg/L	0.0000	25.0			47.3	48.0	40.0 to 60.0			2.79	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond Equipment Blank-1

**Location Code:** WMWGREAPEB  
**Collected:** 5/22/23 15:00  
**Customer ID:**  
**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09692

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	5/25/23 14:07	5/26/23 11:58		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/25/23 14:07	5/26/23 11:58		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	5/25/23 14:07	5/26/23 11:58		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	5/25/23 14:07	5/26/23 11:58		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/25/23 14:07	5/26/23 11:58		1.015	Not Detected	mg/L	0.021315	0.406	U	
* Molybdenum, Total	5/25/23 14:07	5/26/23 11:58		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 11:58		1	Not Detected	mg/L				
* Silicon, Total	5/25/23 14:07	5/26/23 11:58		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	5/25/23 14:07	5/26/23 11:58		1.015	Not Detected	mg/L	0.04060	0.406	U	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	5/25/23 14:07	5/30/23 16:50		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	5/25/23 14:07	5/30/23 16:50		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	5/25/23 14:07	5/30/23 16:50		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	5/25/23 14:07	5/30/23 16:50		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	5/25/23 14:07	5/30/23 16:50		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/25/23 14:07	5/30/23 16:50		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	5/25/23 14:07	5/30/23 16:50		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	5/25/23 14:07	5/30/23 16:50		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	5/25/23 14:07	5/30/23 16:50		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	5/25/23 14:07	5/30/23 16:50		1.015	Not Detected	mg/L	0.000152	0.001015	U	
* Potassium, Total	5/25/23 14:07	5/30/23 16:50		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	5/25/23 14:07	5/30/23 16:50		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	5/25/23 14:07	5/30/23 16:50		1.015	Not Detected	mg/L	0.000068	0.000203	U	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>								
* Mercury, Total by CVAA	5/25/23 18:02	5/25/23 22:42		1	Not Detected	mg/L	0.0003	0.0005	U	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>								
* Nitrogen, Nitrate/Nitrite	5/25/23 08:56	5/25/23 08:56		1	Not Detected	mg/L as N	0.20	0.3	U	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>								
* Solids, Dissolved	5/24/23 14:15	5/30/23 10:15		1	Not Detected	mg/L		25	U	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Equipment Blank-1

**Location Code:** WMWGREAPEB

**Collected:** 5/22/23 15:00

**Customer ID:**

**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09692

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 10:24	5/25/23 10:24		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 14:39	5/24/23 14:39		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:36	5/25/23 10:36		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 14:39	6/6/23 14:39		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPEB

**Sample Date:** 5/22/23 15:00

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD09692

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09697	Aluminum, Total	mg/L	0.000881	0.0198	0.100	0.196	0.219	0.107	0.0850 to 0.115	119	70.0 to 130	11.1	20.0
BD09697	Antimony, Total	mg/L	0.000458	0.00100	0.100	0.110	0.109	0.100	0.0850 to 0.115	110	70.0 to 130	0.913	20.0
BD09697	Arsenic, Total	mg/L	0.0000366	0.000200	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD09697	Barium, Total	mg/L	0.0000072	0.00100	0.100	0.177	0.175	0.102	0.0850 to 0.115	106	70.0 to 130	1.14	20.0
BD09697	Beryllium, Total	mg/L	0.0000613	0.000880	0.100	0.0946	0.0921	0.0932	0.0850 to 0.115	94.6	70.0 to 130	2.68	20.0
BD09697	Boron, Total	mg/L	0.000664	0.0650	1.00	1.38	1.38	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09697	Cadmium, Total	mg/L	0.0000229	0.000147	0.100	0.111	0.110	0.111	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD09697	Calcium, Total	mg/L	-0.00276	0.152	5.00	56.1	60.0	5.30	4.25 to 5.75	92.0	70.0 to 130	6.72	20.0
BD09697	Chloride	mg/L	-0.052	1.00	10.0	23.1	23.0	10.0	9.00 to 11.0	90.0	80.0 to 120	0.434	20.0
BD09697	Chromium, Total	mg/L	0.0000388	0.000440	0.100	0.103	0.100	0.103	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BD09697	Cobalt, Total	mg/L	-0.0000064	0.000147	0.100	0.107	0.105	0.100	0.0850 to 0.115	100	70.0 to 130	1.89	20.0
BD09697	Fluoride	mg/L	0.040	0.125	2.50	2.39	2.79	2.57	2.25 to 2.75	90.2	80.0 to 120	15.4	20.0
BD09697	Iron, Total	mg/L	0.000586	0.0176	0.2	0.527	0.498	0.211	0.170 to 0.230	128	70.0 to 130	5.66	20.0
BD09697	Lead, Total	mg/L	0.0000206	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD09697	Lithium, Total	mg/L	0.00115	0.0154	0.200	0.268	0.272	0.200	0.170 to 0.230	97.2	70.0 to 130	1.48	20.0
BD09697	Magnesium, Total	mg/L	0.00203	0.0462	5.00	12.1	12.1	5.19	4.25 to 5.75	98.4	70.0 to 130	0.00	20.0
BD09697	Manganese, Total	mg/L	0.0000837	0.00033	0.100	5.06	5.00	0.107	0.0850 to 0.115	170	70.0 to 130	1.19	20.0
BD09697	Mercury, Total by CVAA	mg/L	-0.0001	0.000500	0.004	0.00387	0.00387	0.00382	0.00340 to 0.00460	96.8	70.0 to 130	0.00	20.0
BD09697	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.200	0.201	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD09697	Potassium, Total	mg/L	0.0269	0.367	10.0	16.0	15.5	10.4	8.50 to 11.5	105	70.0 to 130	3.17	20.0
BD09697	Selenium, Total	mg/L	0.0000657	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD09697	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.64	4.63	1.03	0.850 to 1.15	117	70.0 to 130	0.216	20.0
BD09697	Sodium, Total	mg/L	-0.00380	0.0880	5.00	30.2	30.4	5.03	4.25 to 5.75	88.0	70.0 to 130	0.660	20.0
BD09697	Sulfate	mg/L	1.99	2.0	160	245	256	19.0	18.0 to 22.0	91.3	80.0 to 120	4.39	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPEB

**Sample Date:** 5/22/23 15:00

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD09692

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD09697	Thallium, Total	mg/L	0.0000061	0.000147	0.100	0.116	0.115	0.114	0.0850 to 0.115	116	70.0 to 130	0.866	20.0
BD09697	Total Organic Carbon	mg/L	0.148	1.00	10.0	9.96	9.77	8.97		99.6	80.0 to 120	1.93	20.0

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**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPEB

**Sample Date:** 5/22/23 15:00

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD09692

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BD09697	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.98	-0.053	1.93	1.80 to 2.20	99.0	90.0 to 110	0.00	15.0
BD09693	Solids, Dissolved	mg/L	0.0000	25.0			47.3	48.0	40.0 to 60.0			2.79	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-60HO

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 08:42  
**Customer ID:**  
**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09693

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	5/25/23 14:07	5/26/23 12:01		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/25/23 14:07	5/26/23 12:01		1.015	3.14	mg/L	0.070035	0.406		
* Iron, Total	5/25/23 14:07	5/26/23 12:01		1.015	0.0290	mg/L	0.008120	0.0406	J	
* Lithium, Total	5/25/23 14:07	5/26/23 12:01		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/25/23 14:07	5/26/23 12:01		1.015	0.963	mg/L	0.021315	0.406		
* Molybdenum, Total	5/25/23 14:07	5/26/23 12:01		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 12:01		1	10.4	mg/L				
* Silicon, Total	5/25/23 14:07	5/26/23 12:01		1.015	4.85	mg/L	0.02030	0.25375		
* Sodium, Total	5/25/23 14:07	5/26/23 12:01		1.015	5.56	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	5/25/23 12:47	5/26/23 14:20		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	5/25/23 12:47	5/26/23 14:20		1.015	3.60	mg/L	0.070035	0.406		
* Iron, Dissolved	5/25/23 12:47	5/26/23 14:20		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	5/25/23 12:47	5/26/23 14:20		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/25/23 12:47	5/26/23 14:20		1.015	0.961	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	5/25/23 12:47	5/26/23 14:20		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	5/25/23 12:47	5/26/23 14:20		1	10.1	mg/L				
* Silicon, Dissolved	5/25/23 12:47	5/26/23 14:20		1.015	4.73	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/25/23 12:47	5/26/23 14:20		1.015	5.50	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	5/25/23 14:07	5/30/23 16:54		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	5/25/23 14:07	5/30/23 16:54		1.015	0.0439	mg/L	0.009135	0.05075	J	
* Arsenic, Total	5/25/23 14:07	5/30/23 16:54		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	5/25/23 14:07	5/30/23 16:54		1.015	0.0420	mg/L	0.000508	0.001015		
* Beryllium, Total	5/25/23 14:07	5/30/23 16:54		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/25/23 14:07	5/30/23 16:54		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	5/25/23 14:07	5/30/23 16:54		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	5/25/23 14:07	5/30/23 16:54		1.015	0.000587	mg/L	0.000068	0.000203		
* Lead, Total	5/25/23 14:07	5/30/23 16:54		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	5/25/23 14:07	5/30/23 16:54		1.015	0.00895	mg/L	0.000152	0.001015		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-60HO

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 08:42  
**Customer ID:**  
**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09693

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 16:54		1.015	1.09	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 16:54		1.015	0.00114	mg/L	0.000508	0.001015	
* Thallium, Total	5/25/23 14:07	5/30/23 16:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 12:47	5/30/23 12:47		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 12:47	5/30/23 12:47		1.015	0.0187	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	5/25/23 12:47	5/30/23 12:47		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	5/25/23 12:47	5/30/23 12:47		1.015	0.0398	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 12:47	5/30/23 12:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 12:47	5/30/23 12:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 12:47	5/30/23 12:47		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/25/23 12:47	5/30/23 12:47		1.015	0.000568	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/25/23 12:47	5/30/23 12:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/25/23 12:47	5/30/23 12:47		1.015	0.00840	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/25/23 12:47	5/30/23 12:47		1.015	1.07	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 12:47	5/30/23 12:47		1.015	0.00122	mg/L	0.000508	0.001015	
* Thallium, Dissolved	5/25/23 12:47	5/30/23 12:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/25/23 22:46		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 08:58	5/25/23 08:58		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/31/23 12:25	5/31/23 14:04		1	10.8	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:15	5/30/23 10:15		1	46.0	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/31/23 12:25	5/31/23 14:04		1	10.8	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/31/23 12:25	5/31/23 14:04		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 10:36	5/25/23 10:36		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-60HO

**Location Code:** WMWGREAP

**Collected:** 5/23/23 08:42

**Customer ID:**

**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09693

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 14:40	5/24/23 14:40		1	3.70	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:37	5/25/23 10:37		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 14:40	6/6/23 14:40		1	6.96	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/23/23 08:38	5/23/23 08:38			53.58	uS/cm			FA
pH	5/23/23 08:38	5/23/23 08:38			5.26	SU			FA
Temperature	5/23/23 08:38	5/23/23 08:38			19.50	C			FA
Turbidity	5/23/23 08:38	5/23/23 08:38			4.8	NTU			FA
Sulfide	5/23/23 08:38	5/23/23 08:38			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 08:42

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-60HO

**Laboratory ID Number:** BD09693

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09698	Aluminum, Dissolved	mg/L	0.000268	0.0198	0.100	0.118	0.115	0.105	0.0850 to 0.115	102	70.0 to 130	2.58	20.0
BD09697	Aluminum, Total	mg/L	0.000881	0.0198	0.100	0.196	0.219	0.107	0.0850 to 0.115	119	70.0 to 130	11.1	20.0
BD09698	Antimony, Dissolved	mg/L	0.000431	0.00100	0.100	0.0989	0.0983	0.0950	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0
BD09697	Antimony, Total	mg/L	0.000458	0.00100	0.100	0.110	0.109	0.100	0.0850 to 0.115	110	70.0 to 130	0.913	20.0
BD09698	Arsenic, Dissolved	mg/L	0.0000204	0.000200	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09697	Arsenic, Total	mg/L	0.0000366	0.000200	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD09698	Barium, Dissolved	mg/L	0.0000163	0.00100	0.100	0.128	0.131	0.102	0.0850 to 0.115	98.5	70.0 to 130	2.32	20.0
BD09697	Barium, Total	mg/L	0.0000072	0.00100	0.100	0.177	0.175	0.102	0.0850 to 0.115	106	70.0 to 130	1.14	20.0
BD09698	Beryllium, Dissolved	mg/L	0.0000492	0.000880	0.100	0.0955	0.0978	0.101	0.0850 to 0.115	95.5	70.0 to 130	2.38	20.0
BD09697	Beryllium, Total	mg/L	0.0000613	0.000880	0.100	0.0946	0.0921	0.0932	0.0850 to 0.115	94.6	70.0 to 130	2.68	20.0
BD09698	Boron, Dissolved	mg/L	0.000260	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09697	Boron, Total	mg/L	0.000664	0.0650	1.00	1.38	1.38	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09698	Cadmium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.0957	0.0973	0.0965	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BD09697	Cadmium, Total	mg/L	0.0000229	0.000147	0.100	0.111	0.110	0.111	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD09698	Calcium, Dissolved	mg/L	0.00492	0.152	5.00	6.90	7.06	5.00	4.25 to 5.75	96.2	70.0 to 130	2.29	20.0
BD09697	Calcium, Total	mg/L	-0.00276	0.152	5.00	56.1	60.0	5.30	4.25 to 5.75	92.0	70.0 to 130	6.72	20.0
BD09697	Chloride	mg/L	-0.052	1.00	10.0	23.1	23.0	10.0	9.00 to 11.0	90.0	80.0 to 120	0.434	20.0
BD09698	Chromium, Dissolved	mg/L	-0.0000242	0.000440	0.100	0.100	0.0992	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.803	20.0
BD09697	Chromium, Total	mg/L	0.0000388	0.000440	0.100	0.103	0.100	0.103	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BD09698	Cobalt, Dissolved	mg/L	-0.0000126	0.000147	0.100	0.0995	0.0984	0.102	0.0850 to 0.115	98.7	70.0 to 130	1.11	20.0
BD09697	Cobalt, Total	mg/L	-0.0000064	0.000147	0.100	0.107	0.105	0.100	0.0850 to 0.115	100	70.0 to 130	1.89	20.0
BD09697	Fluoride	mg/L	0.040	0.125	2.50	2.39	2.79	2.57	2.25 to 2.75	90.2	80.0 to 120	15.4	20.0
BD09698	Iron, Dissolved	mg/L	0.00323	0.0176	0.2	0.205	0.205	0.209	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD09697	Iron, Total	mg/L	0.000586	0.0176	0.2	0.527	0.498	0.211	0.170 to 0.230	128	70.0 to 130	5.66	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 08:42

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-60HO

**Laboratory ID Number:** BD09693

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09698	Lead, Dissolved	mg/L	0.0000178	0.000147	0.100	0.105	0.105	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09697	Lead, Total	mg/L	0.0000206	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD09698	Lithium, Dissolved	mg/L	0.000446	0.0154	0.200	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09697	Lithium, Total	mg/L	0.00115	0.0154	0.200	0.268	0.272	0.200	0.170 to 0.230	97.2	70.0 to 130	1.48	20.0
BD09698	Magnesium, Dissolved	mg/L	0.00588	0.0462	5.00	6.31	6.41	4.99	4.25 to 5.75	96.6	70.0 to 130	1.57	20.0
BD09697	Magnesium, Total	mg/L	0.00203	0.0462	5.00	12.1	12.1	5.19	4.25 to 5.75	98.4	70.0 to 130	0.00	20.0
BD09698	Manganese, Dissolved	mg/L	-0.0000532	0.00033	0.100	0.115	0.114	0.107	0.0850 to 0.115	106	70.0 to 130	0.873	20.0
BD09697	Manganese, Total	mg/L	0.0000837	0.00033	0.100	5.06	5.00	0.107	0.0850 to 0.115	170	70.0 to 130	1.19	20.0
BD09697	Mercury, Total by CVAA	mg/L	-0.0001	0.000500	0.004	0.00387	0.00387	0.00382	0.00340 to 0.00460	96.8	70.0 to 130	0.00	20.0
BD09698	Molybdenum, Dissolved	mg/L	0.00182	0.0100	0.2	0.198	0.199	0.202	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD09697	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.200	0.201	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD09698	Potassium, Dissolved	mg/L	0.0233	0.367	10.0	11.5	11.4	10.3	8.50 to 11.5	99.5	70.0 to 130	0.873	20.0
BD09697	Potassium, Total	mg/L	0.0269	0.367	10.0	16.0	15.5	10.4	8.50 to 11.5	105	70.0 to 130	3.17	20.0
BD09698	Selenium, Dissolved	mg/L	0.000138	0.00100	0.100	0.101	0.100	0.104	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD09697	Selenium, Total	mg/L	0.0000657	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD09698	Silicon, Dissolved	mg/L	0.00125	0.0440	1.00	6.05	6.05	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09697	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.64	4.63	1.03	0.850 to 1.15	117	70.0 to 130	0.216	20.0
BD09698	Sodium, Dissolved	mg/L	0.000231	0.0880	5.00	8.54	8.61	4.97	4.25 to 5.75	96.4	70.0 to 130	0.816	20.0
BD09697	Sodium, Total	mg/L	-0.00380	0.0880	5.00	30.2	30.4	5.03	4.25 to 5.75	88.0	70.0 to 130	0.660	20.0
BD09697	Sulfate	mg/L	1.99	2.0	160	245	256	19.0	18.0 to 22.0	91.3	80.0 to 120	4.39	20.0
BD09698	Thallium, Dissolved	mg/L	-0.0000021	0.000147	0.100	0.108	0.108	0.110	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09697	Thallium, Total	mg/L	0.0000061	0.000147	0.100	0.116	0.115	0.114	0.0850 to 0.115	116	70.0 to 130	0.866	20.0
BD09697	Total Organic Carbon	mg/L	0.148	1.00	10.0	9.96	9.77	8.97		99.6	80.0 to 120	1.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 08:42

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-60HO

**Laboratory ID Number:** BD09693

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BD09697	Alkalinity	mg CaCO3/L					93.2	50.4	45.0 to 55.0			0.107	10.0
BD09697	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.98	-0.053	1.93	1.80 to 2.20	99.0	90.0 to 110	0.00	15.0
BD09693	Solids, Dissolved	mg/L	0.0000	25.0			47.3	48.0	40.0 to 60.0			2.79	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-60HO Dup

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 08:42  
**Customer ID:**  
**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09694

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	5/25/23 14:07	5/26/23 12:04		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/25/23 14:07	5/26/23 12:04		1.015	3.15	mg/L	0.070035	0.406		
* Iron, Total	5/25/23 14:07	5/26/23 12:04		1.015	0.0302	mg/L	0.008120	0.0406	J	
* Lithium, Total	5/25/23 14:07	5/26/23 12:04		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/25/23 14:07	5/26/23 12:04		1.015	0.946	mg/L	0.021315	0.406		
* Molybdenum, Total	5/25/23 14:07	5/26/23 12:04		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 12:04		1	10.3	mg/L				
* Silicon, Total	5/25/23 14:07	5/26/23 12:04		1.015	4.79	mg/L	0.02030	0.25375		
* Sodium, Total	5/25/23 14:07	5/26/23 12:04		1.015	5.52	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	5/25/23 12:47	5/26/23 14:23		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	5/25/23 12:47	5/26/23 14:23		1.015	3.33	mg/L	0.070035	0.406		
* Iron, Dissolved	5/25/23 12:47	5/26/23 14:23		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	5/25/23 12:47	5/26/23 14:23		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/25/23 12:47	5/26/23 14:23		1.015	0.956	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	5/25/23 12:47	5/26/23 14:23		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	5/25/23 12:47	5/26/23 14:23		1	10.2	mg/L				
* Silicon, Dissolved	5/25/23 12:47	5/26/23 14:23		1.015	4.75	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/25/23 12:47	5/26/23 14:23		1.015	5.57	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	5/25/23 14:07	5/30/23 16:57		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	5/25/23 14:07	5/30/23 16:57		1.015	0.0452	mg/L	0.009135	0.05075	J	
* Arsenic, Total	5/25/23 14:07	5/30/23 16:57		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	5/25/23 14:07	5/30/23 16:57		1.015	0.0405	mg/L	0.000508	0.001015		
* Beryllium, Total	5/25/23 14:07	5/30/23 16:57		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/25/23 14:07	5/30/23 16:57		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	5/25/23 14:07	5/30/23 16:57		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	5/25/23 14:07	5/30/23 16:57		1.015	0.000603	mg/L	0.000068	0.000203		
* Lead, Total	5/25/23 14:07	5/30/23 16:57		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	5/25/23 14:07	5/30/23 16:57		1.015	0.00938	mg/L	0.000152	0.001015		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-60HO Dup

**Location Code:** WMWGREAP

**Collected:** 5/23/23 08:42

**Customer ID:**

**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09694

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 16:57		1.015	1.12	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 16:57		1.015	0.00121	mg/L	0.000508	0.001015	
* Thallium, Total	5/25/23 14:07	5/30/23 16:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 12:47	5/30/23 12:51		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 12:47	5/30/23 12:51		1.015	0.0186	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	5/25/23 12:47	5/30/23 12:51		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	5/25/23 12:47	5/30/23 12:51		1.015	0.0398	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 12:47	5/30/23 12:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 12:47	5/30/23 12:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 12:47	5/30/23 12:51		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/25/23 12:47	5/30/23 12:51		1.015	0.000569	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/25/23 12:47	5/30/23 12:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/25/23 12:47	5/30/23 12:51		1.015	0.00879	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/25/23 12:47	5/30/23 12:51		1.015	1.08	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 12:47	5/30/23 12:51		1.015	0.00117	mg/L	0.000508	0.001015	
* Thallium, Dissolved	5/25/23 12:47	5/30/23 12:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/25/23 22:50		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 08:59	5/25/23 08:59		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/31/23 12:25	5/31/23 14:04		1	9.16	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:15	5/30/23 10:15		1	38.7	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/31/23 12:25	5/31/23 14:04		1	9.16	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/31/23 12:25	5/31/23 14:04		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 10:51	5/25/23 10:51		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-60HO Dup

**Location Code:** WMWGREAP

**Collected:** 5/23/23 08:42

**Customer ID:**

**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09694

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 14:41	5/24/23 14:41		1	3.80	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:38	5/25/23 10:38		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 14:41	6/6/23 14:41		1	7.13	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/23/23 08:38	5/23/23 08:38			53.58	uS/cm			FA
pH	5/23/23 08:38	5/23/23 08:38			5.26	SU			FA
Temperature	5/23/23 08:38	5/23/23 08:38			19.50	C			FA
Turbidity	5/23/23 08:38	5/23/23 08:38			4.8	NTU			FA
Sulfide	5/23/23 08:38	5/23/23 08:38			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 08:42

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-60HO Dup

**Laboratory ID Number:** BD09694

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09698	Aluminum, Dissolved	mg/L	0.000268	0.0198	0.100	0.118	0.115	0.105	0.0850 to 0.115	102	70.0 to 130	2.58	20.0
BD09697	Aluminum, Total	mg/L	0.000881	0.0198	0.100	0.196	0.219	0.107	0.0850 to 0.115	119	70.0 to 130	11.1	20.0
BD09698	Antimony, Dissolved	mg/L	0.000431	0.00100	0.100	0.0989	0.0983	0.0950	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0
BD09697	Antimony, Total	mg/L	0.000458	0.00100	0.100	0.110	0.109	0.100	0.0850 to 0.115	110	70.0 to 130	0.913	20.0
BD09698	Arsenic, Dissolved	mg/L	0.0000204	0.000200	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09697	Arsenic, Total	mg/L	0.0000366	0.000200	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD09698	Barium, Dissolved	mg/L	0.0000163	0.00100	0.100	0.128	0.131	0.102	0.0850 to 0.115	98.5	70.0 to 130	2.32	20.0
BD09697	Barium, Total	mg/L	0.0000072	0.00100	0.100	0.177	0.175	0.102	0.0850 to 0.115	106	70.0 to 130	1.14	20.0
BD09698	Beryllium, Dissolved	mg/L	0.0000492	0.000880	0.100	0.0955	0.0978	0.101	0.0850 to 0.115	95.5	70.0 to 130	2.38	20.0
BD09697	Beryllium, Total	mg/L	0.0000613	0.000880	0.100	0.0946	0.0921	0.0932	0.0850 to 0.115	94.6	70.0 to 130	2.68	20.0
BD09698	Boron, Dissolved	mg/L	0.000260	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09697	Boron, Total	mg/L	0.000664	0.0650	1.00	1.38	1.38	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09698	Cadmium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.0957	0.0973	0.0965	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BD09697	Cadmium, Total	mg/L	0.0000229	0.000147	0.100	0.111	0.110	0.111	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD09698	Calcium, Dissolved	mg/L	0.00492	0.152	5.00	6.90	7.06	5.00	4.25 to 5.75	96.2	70.0 to 130	2.29	20.0
BD09697	Calcium, Total	mg/L	-0.00276	0.152	5.00	56.1	60.0	5.30	4.25 to 5.75	92.0	70.0 to 130	6.72	20.0
BD09697	Chloride	mg/L	-0.052	1.00	10.0	23.1	23.0	10.0	9.00 to 11.0	90.0	80.0 to 120	0.434	20.0
BD09698	Chromium, Dissolved	mg/L	-0.0000242	0.000440	0.100	0.100	0.0992	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.803	20.0
BD09697	Chromium, Total	mg/L	0.0000388	0.000440	0.100	0.103	0.100	0.103	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BD09698	Cobalt, Dissolved	mg/L	-0.0000126	0.000147	0.100	0.0995	0.0984	0.102	0.0850 to 0.115	98.7	70.0 to 130	1.11	20.0
BD09697	Cobalt, Total	mg/L	-0.0000064	0.000147	0.100	0.107	0.105	0.100	0.0850 to 0.115	100	70.0 to 130	1.89	20.0
BD09697	Fluoride	mg/L	0.040	0.125	2.50	2.39	2.79	2.57	2.25 to 2.75	90.2	80.0 to 120	15.4	20.0
BD09698	Iron, Dissolved	mg/L	0.00323	0.0176	0.2	0.205	0.205	0.209	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD09697	Iron, Total	mg/L	0.000586	0.0176	0.2	0.527	0.498	0.211	0.170 to 0.230	128	70.0 to 130	5.66	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 08:42

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-60HO Dup

**Laboratory ID Number:** BD09694

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09698	Lead, Dissolved	mg/L	0.0000178	0.000147	0.100	0.105	0.105	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09697	Lead, Total	mg/L	0.0000206	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD09698	Lithium, Dissolved	mg/L	0.000446	0.0154	0.200	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09697	Lithium, Total	mg/L	0.00115	0.0154	0.200	0.268	0.272	0.200	0.170 to 0.230	97.2	70.0 to 130	1.48	20.0
BD09698	Magnesium, Dissolved	mg/L	0.00588	0.0462	5.00	6.31	6.41	4.99	4.25 to 5.75	96.6	70.0 to 130	1.57	20.0
BD09697	Magnesium, Total	mg/L	0.00203	0.0462	5.00	12.1	12.1	5.19	4.25 to 5.75	98.4	70.0 to 130	0.00	20.0
BD09698	Manganese, Dissolved	mg/L	-0.0000532	0.00033	0.100	0.115	0.114	0.107	0.0850 to 0.115	106	70.0 to 130	0.873	20.0
BD09697	Manganese, Total	mg/L	0.0000837	0.00033	0.100	5.06	5.00	0.107	0.0850 to 0.115	170	70.0 to 130	1.19	20.0
BD09697	Mercury, Total by CVAA	mg/L	-0.0001	0.000500	0.004	0.00387	0.00387	0.00382	0.00340 to 0.00460	96.8	70.0 to 130	0.00	20.0
BD09698	Molybdenum, Dissolved	mg/L	0.00182	0.0100	0.2	0.198	0.199	0.202	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD09697	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.200	0.201	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD09698	Potassium, Dissolved	mg/L	0.0233	0.367	10.0	11.5	11.4	10.3	8.50 to 11.5	99.5	70.0 to 130	0.873	20.0
BD09697	Potassium, Total	mg/L	0.0269	0.367	10.0	16.0	15.5	10.4	8.50 to 11.5	105	70.0 to 130	3.17	20.0
BD09698	Selenium, Dissolved	mg/L	0.000138	0.00100	0.100	0.101	0.100	0.104	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD09697	Selenium, Total	mg/L	0.0000657	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD09698	Silicon, Dissolved	mg/L	0.00125	0.0440	1.00	6.05	6.05	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09697	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.64	4.63	1.03	0.850 to 1.15	117	70.0 to 130	0.216	20.0
BD09698	Sodium, Dissolved	mg/L	0.000231	0.0880	5.00	8.54	8.61	4.97	4.25 to 5.75	96.4	70.0 to 130	0.816	20.0
BD09697	Sodium, Total	mg/L	-0.00380	0.0880	5.00	30.2	30.4	5.03	4.25 to 5.75	88.0	70.0 to 130	0.660	20.0
BD09697	Sulfate	mg/L	1.99	2.0	160	245	256	19.0	18.0 to 22.0	91.3	80.0 to 120	4.39	20.0
BD09698	Thallium, Dissolved	mg/L	-0.0000021	0.000147	0.100	0.108	0.108	0.110	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09697	Thallium, Total	mg/L	0.0000061	0.000147	0.100	0.116	0.115	0.114	0.0850 to 0.115	116	70.0 to 130	0.866	20.0
BD09697	Total Organic Carbon	mg/L	0.148	1.00	10.0	9.96	9.77	8.97		99.6	80.0 to 120	1.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 08:42

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-60HO Dup

**Laboratory ID Number:** BD09694

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09697	Alkalinity	mg CaCO3/L					93.2	50.4	45.0 to 55.0			0.107	10.0
BD09697	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.98	-0.053	1.93	1.80 to 2.20	99.0	90.0 to 110	0.00	15.0
BD09714	Solids, Dissolved	mg/L	0.0000	25.0			279	48.0	40.0 to 60.0			1.78	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-61HO

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 10:18  
**Customer ID:**  
**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09695

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	5/25/23 14:07	5/26/23 12:07		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/25/23 14:07	5/26/23 12:07		1.015	15.4	mg/L	0.070035	0.406		
* Iron, Total	5/25/23 14:07	5/26/23 12:07		1.015	0.0513	mg/L	0.008120	0.0406		
* Lithium, Total	5/25/23 14:07	5/26/23 12:07		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/25/23 14:07	5/26/23 12:07		1.015	1.26	mg/L	0.021315	0.406		
* Molybdenum, Total	5/25/23 14:07	5/26/23 12:07		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 12:07		1	7.79	mg/L				
* Silicon, Total	5/25/23 14:07	5/26/23 12:07		1.015	3.64	mg/L	0.02030	0.25375		
* Sodium, Total	5/25/23 14:07	5/26/23 12:07		1.015	1.73	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	5/25/23 12:47	5/26/23 14:26		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	5/25/23 12:47	5/26/23 14:26		1.015	15.9	mg/L	0.070035	0.406		
* Iron, Dissolved	5/25/23 12:47	5/26/23 14:26		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	5/25/23 12:47	5/26/23 14:26		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/25/23 12:47	5/26/23 14:26		1.015	1.24	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	5/25/23 12:47	5/26/23 14:26		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	5/25/23 12:47	5/26/23 14:26		1	7.55	mg/L				
* Silicon, Dissolved	5/25/23 12:47	5/26/23 14:26		1.015	3.53	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/25/23 12:47	5/26/23 14:26		1.015	1.70	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	5/25/23 14:07	5/30/23 17:01		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	5/25/23 14:07	5/30/23 17:01		1.015	0.0496	mg/L	0.009135	0.05075	J	
* Arsenic, Total	5/25/23 14:07	5/30/23 17:01		1.015	0.000278	mg/L	0.000112	0.000203		
* Barium, Total	5/25/23 14:07	5/30/23 17:01		1.015	0.0436	mg/L	0.000508	0.001015		
* Beryllium, Total	5/25/23 14:07	5/30/23 17:01		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/25/23 14:07	5/30/23 17:01		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	5/25/23 14:07	5/30/23 17:01		1.015	0.000502	mg/L	0.000203	0.001015	J	
* Cobalt, Total	5/25/23 14:07	5/30/23 17:01		1.015	0.000335	mg/L	0.000068	0.000203		
* Lead, Total	5/25/23 14:07	5/30/23 17:01		1.015	0.000122	mg/L	0.000068	0.000203	J	
* Manganese, Total	5/25/23 14:07	5/30/23 17:01		1.015	0.00909	mg/L	0.000152	0.001015		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-61HO

**Location Code:** WMWGREAP

**Collected:** 5/23/23 10:18

**Customer ID:**

**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09695

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 17:01		1.015	1.31	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 17:01		1.015	0.000605	mg/L	0.000508	0.001015	J
* Thallium, Total	5/25/23 14:07	5/30/23 17:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 12:47	5/30/23 12:55		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 12:47	5/30/23 12:55		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/25/23 12:47	5/30/23 12:55		1.015	0.000248	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/25/23 12:47	5/30/23 12:55		1.015	0.0413	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 12:47	5/30/23 12:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 12:47	5/30/23 12:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 12:47	5/30/23 12:55		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/25/23 12:47	5/30/23 12:55		1.015	0.000286	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/25/23 12:47	5/30/23 12:55		1.015	0.0000853	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	5/25/23 12:47	5/30/23 12:55		1.015	0.00725	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/25/23 12:47	5/30/23 12:55		1.015	1.30	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 12:47	5/30/23 12:55		1.015	0.000574	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	5/25/23 12:47	5/30/23 12:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/25/23 22:54		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 09:01	5/25/23 09:01		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/31/23 12:25	5/31/23 14:04		1	36.5	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:15	5/30/23 10:15		1	57.3	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/31/23 12:25	5/31/23 14:04		1	36.5	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/31/23 12:25	5/31/23 14:04		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 11:05	5/25/23 11:05		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-61HO

**Location Code:** WMWGREAP

**Collected:** 5/23/23 10:18

**Customer ID:**

**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09695

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 14:42	5/24/23 14:42		1	2.16	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:39	5/25/23 10:39		1	0.0836	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 14:42	6/6/23 14:42		1	8.72	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/23/23 10:15	5/23/23 10:15			89.91	uS/cm			FA
pH	5/23/23 10:15	5/23/23 10:15			5.99	SU			FA
Temperature	5/23/23 10:15	5/23/23 10:15			18.13	C			FA
Turbidity	5/23/23 10:15	5/23/23 10:15			6.08	NTU			FA
Sulfide	5/23/23 10:15	5/23/23 10:15			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 10:18

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-61HO

**Laboratory ID Number:** BD09695

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09698	Aluminum, Dissolved	mg/L	0.000268	0.0198	0.100	0.118	0.115	0.105	0.0850 to 0.115	102	70.0 to 130	2.58	20.0
BD09697	Aluminum, Total	mg/L	0.000881	0.0198	0.100	0.196	0.219	0.107	0.0850 to 0.115	119	70.0 to 130	11.1	20.0
BD09698	Antimony, Dissolved	mg/L	0.000431	0.00100	0.100	0.0989	0.0983	0.0950	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0
BD09697	Antimony, Total	mg/L	0.000458	0.00100	0.100	0.110	0.109	0.100	0.0850 to 0.115	110	70.0 to 130	0.913	20.0
BD09698	Arsenic, Dissolved	mg/L	0.0000204	0.000200	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09697	Arsenic, Total	mg/L	0.0000366	0.000200	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD09698	Barium, Dissolved	mg/L	0.0000163	0.00100	0.100	0.128	0.131	0.102	0.0850 to 0.115	98.5	70.0 to 130	2.32	20.0
BD09697	Barium, Total	mg/L	0.0000072	0.00100	0.100	0.177	0.175	0.102	0.0850 to 0.115	106	70.0 to 130	1.14	20.0
BD09698	Beryllium, Dissolved	mg/L	0.0000492	0.000880	0.100	0.0955	0.0978	0.101	0.0850 to 0.115	95.5	70.0 to 130	2.38	20.0
BD09697	Beryllium, Total	mg/L	0.0000613	0.000880	0.100	0.0946	0.0921	0.0932	0.0850 to 0.115	94.6	70.0 to 130	2.68	20.0
BD09698	Boron, Dissolved	mg/L	0.000260	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09697	Boron, Total	mg/L	0.000664	0.0650	1.00	1.38	1.38	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09698	Cadmium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.0957	0.0973	0.0965	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BD09697	Cadmium, Total	mg/L	0.0000229	0.000147	0.100	0.111	0.110	0.111	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD09698	Calcium, Dissolved	mg/L	0.00492	0.152	5.00	6.90	7.06	5.00	4.25 to 5.75	96.2	70.0 to 130	2.29	20.0
BD09697	Calcium, Total	mg/L	-0.00276	0.152	5.00	56.1	60.0	5.30	4.25 to 5.75	92.0	70.0 to 130	6.72	20.0
BD09697	Chloride	mg/L	-0.052	1.00	10.0	23.1	23.0	10.0	9.00 to 11.0	90.0	80.0 to 120	0.434	20.0
BD09698	Chromium, Dissolved	mg/L	-0.0000242	0.000440	0.100	0.100	0.0992	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.803	20.0
BD09697	Chromium, Total	mg/L	0.0000388	0.000440	0.100	0.103	0.100	0.103	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BD09698	Cobalt, Dissolved	mg/L	-0.0000126	0.000147	0.100	0.0995	0.0984	0.102	0.0850 to 0.115	98.7	70.0 to 130	1.11	20.0
BD09697	Cobalt, Total	mg/L	-0.0000064	0.000147	0.100	0.107	0.105	0.100	0.0850 to 0.115	100	70.0 to 130	1.89	20.0
BD09697	Fluoride	mg/L	0.040	0.125	2.50	2.39	2.79	2.57	2.25 to 2.75	90.2	80.0 to 120	15.4	20.0
BD09698	Iron, Dissolved	mg/L	0.00323	0.0176	0.2	0.205	0.205	0.209	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD09697	Iron, Total	mg/L	0.000586	0.0176	0.2	0.527	0.498	0.211	0.170 to 0.230	128	70.0 to 130	5.66	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 10:18

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-61HO

**Laboratory ID Number:** BD09695

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09698	Lead, Dissolved	mg/L	0.0000178	0.000147	0.100	0.105	0.105	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09697	Lead, Total	mg/L	0.0000206	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD09698	Lithium, Dissolved	mg/L	0.000446	0.0154	0.200	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09697	Lithium, Total	mg/L	0.00115	0.0154	0.200	0.268	0.272	0.200	0.170 to 0.230	97.2	70.0 to 130	1.48	20.0
BD09698	Magnesium, Dissolved	mg/L	0.00588	0.0462	5.00	6.31	6.41	4.99	4.25 to 5.75	96.6	70.0 to 130	1.57	20.0
BD09697	Magnesium, Total	mg/L	0.00203	0.0462	5.00	12.1	12.1	5.19	4.25 to 5.75	98.4	70.0 to 130	0.00	20.0
BD09698	Manganese, Dissolved	mg/L	-0.0000532	0.00033	0.100	0.115	0.114	0.107	0.0850 to 0.115	106	70.0 to 130	0.873	20.0
BD09697	Manganese, Total	mg/L	0.0000837	0.00033	0.100	5.06	5.00	0.107	0.0850 to 0.115	170	70.0 to 130	1.19	20.0
BD09697	Mercury, Total by CVAA	mg/L	-0.0001	0.000500	0.004	0.00387	0.00387	0.00382	0.00340 to 0.00460	96.8	70.0 to 130	0.00	20.0
BD09698	Molybdenum, Dissolved	mg/L	0.00182	0.0100	0.2	0.198	0.199	0.202	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD09697	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.200	0.201	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD09698	Potassium, Dissolved	mg/L	0.0233	0.367	10.0	11.5	11.4	10.3	8.50 to 11.5	99.5	70.0 to 130	0.873	20.0
BD09697	Potassium, Total	mg/L	0.0269	0.367	10.0	16.0	15.5	10.4	8.50 to 11.5	105	70.0 to 130	3.17	20.0
BD09698	Selenium, Dissolved	mg/L	0.000138	0.00100	0.100	0.101	0.100	0.104	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD09697	Selenium, Total	mg/L	0.0000657	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD09698	Silicon, Dissolved	mg/L	0.00125	0.0440	1.00	6.05	6.05	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09697	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.64	4.63	1.03	0.850 to 1.15	117	70.0 to 130	0.216	20.0
BD09698	Sodium, Dissolved	mg/L	0.000231	0.0880	5.00	8.54	8.61	4.97	4.25 to 5.75	96.4	70.0 to 130	0.816	20.0
BD09697	Sodium, Total	mg/L	-0.00380	0.0880	5.00	30.2	30.4	5.03	4.25 to 5.75	88.0	70.0 to 130	0.660	20.0
BD09697	Sulfate	mg/L	1.99	2.0	160	245	256	19.0	18.0 to 22.0	91.3	80.0 to 120	4.39	20.0
BD09698	Thallium, Dissolved	mg/L	-0.0000021	0.000147	0.100	0.108	0.108	0.110	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09697	Thallium, Total	mg/L	0.0000061	0.000147	0.100	0.116	0.115	0.114	0.0850 to 0.115	116	70.0 to 130	0.866	20.0
BD09697	Total Organic Carbon	mg/L	0.148	1.00	10.0	9.96	9.77	8.97		99.6	80.0 to 120	1.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 10:18

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-61HO

**Laboratory ID Number:** BD09695

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09697	Alkalinity	mg CaCO3/L					93.2	50.4	45.0 to 55.0			0.107	10.0
BD09697	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.98	-0.053	1.93	1.80 to 2.20	99.0	90.0 to 110	0.00	15.0
BD09714	Solids, Dissolved	mg/L	0.0000	25.0			279	48.0	40.0 to 60.0			1.78	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-59HO

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 11:17  
**Customer ID:**  
**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09696

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/25/23 14:07	5/26/23 12:11		1.015	0.197	mg/L	0.030000	0.1015	
* Calcium, Total	5/25/23 14:07	5/31/23 15:03		10.15	77.5	mg/L	0.70035	4.06	
* Iron, Total	5/25/23 14:07	5/26/23 12:11		1.015	0.455	mg/L	0.008120	0.0406	
* Lithium, Total	5/25/23 14:07	5/26/23 12:11		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/25/23 14:07	5/26/23 12:11		1.015	15.1	mg/L	0.021315	0.406	
* Molybdenum, Total	5/25/23 14:07	5/26/23 12:11		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 12:11		1	6.76	mg/L			
* Silicon, Total	5/25/23 14:07	5/26/23 12:11		1.015	3.16	mg/L	0.02030	0.25375	
* Sodium, Total	5/25/23 14:07	5/26/23 12:11		1.015	25.6	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/25/23 12:47	5/26/23 14:30		1.015	0.197	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/25/23 12:47	5/31/23 15:50		10.15	79.9	mg/L	0.70035	4.06	
* Iron, Dissolved	5/25/23 12:47	5/26/23 14:30		1.015	0.0617	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/25/23 12:47	5/26/23 14:30		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/25/23 12:47	5/26/23 14:30		1.015	14.9	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/25/23 12:47	5/26/23 14:30		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/25/23 12:47	5/26/23 14:30		1	6.66	mg/L			
* Silicon, Dissolved	5/25/23 12:47	5/26/23 14:30		1.015	3.11	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/25/23 12:47	5/26/23 14:30		1.015	25.5	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/25/23 14:07	5/30/23 17:04		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/25/23 14:07	5/30/23 17:04		1.015	0.0267	mg/L	0.009135	0.05075	J
* Arsenic, Total	5/25/23 14:07	5/30/23 17:04		1.015	0.000656	mg/L	0.000112	0.000203	
* Barium, Total	5/25/23 14:07	5/30/23 17:04		1.015	0.0543	mg/L	0.000508	0.001015	
* Beryllium, Total	5/25/23 14:07	5/30/23 17:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/25/23 14:07	5/30/23 17:04		1.015	0.0000864	mg/L	0.000068	0.000203	J
* Chromium, Total	5/25/23 14:07	5/30/23 17:04		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/25/23 14:07	5/30/23 17:04		1.015	0.0275	mg/L	0.000068	0.000203	
* Lead, Total	5/25/23 14:07	5/30/23 17:04		1.015	0.0000818	mg/L	0.000068	0.000203	J
* Manganese, Total	5/25/23 14:07	5/30/23 17:40		10.15	12.5	mg/L	0.001522	0.01015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-59HO

**Location Code:** WMWGREAP

**Collected:** 5/23/23 11:17

**Customer ID:**

**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09696

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 17:04		1.015	4.12	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 17:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/25/23 14:07	5/30/23 17:04		1.015	0.000118	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 12:47	5/30/23 12:58		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 12:47	5/30/23 12:58		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/25/23 12:47	5/30/23 12:58		1.015	0.000261	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/25/23 12:47	5/30/23 12:58		1.015	0.0508	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 12:47	5/30/23 12:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 12:47	5/30/23 12:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 12:47	5/30/23 12:58		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/25/23 12:47	5/30/23 12:58		1.015	0.0270	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/25/23 12:47	5/30/23 12:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/25/23 12:47	5/30/23 15:25		10.15	11.9	mg/L	0.001522	0.01015	
* Potassium, Dissolved	5/25/23 12:47	5/30/23 12:58		1.015	3.94	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 12:47	5/30/23 12:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/25/23 12:47	5/30/23 12:58		1.015	0.000124	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/25/23 22:58		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 09:03	5/25/23 09:03		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/31/23 12:25	5/31/23 14:04		1	58.8	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:15	5/30/23 10:15		1	376	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/31/23 12:25	5/31/23 14:04		1	58.8	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/31/23 12:25	5/31/23 14:04		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 11:23	5/25/23 11:23		1	1.01	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-59HO

**Location Code:** WMWGREAP

**Collected:** 5/23/23 11:17

**Customer ID:**

**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09696

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 14:43	5/24/23 14:43		1	8.54	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:41	5/25/23 10:41		1	0.0764	mg/L	0.06	0.125	J
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 14:59	6/6/23 14:59		10	199	mg/L	6.0	20	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/23/23 11:14	5/23/23 11:14			554.29	uS/cm			FA
pH	5/23/23 11:14	5/23/23 11:14			5.78	SU			FA
Temperature	5/23/23 11:14	5/23/23 11:14			17.76	C			FA
Turbidity	5/23/23 11:14	5/23/23 11:14			8.65	NTU			FA
Sulfide	5/23/23 11:14	5/23/23 11:14			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 11:17

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-59HO

**Laboratory ID Number:** BD09696

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09698	Aluminum, Dissolved	mg/L	0.000268	0.0198	0.100	0.118	0.115	0.105	0.0850 to 0.115	102	70.0 to 130	2.58	20.0
BD09697	Aluminum, Total	mg/L	0.000881	0.0198	0.100	0.196	0.219	0.107	0.0850 to 0.115	119	70.0 to 130	11.1	20.0
BD09698	Antimony, Dissolved	mg/L	0.000431	0.00100	0.100	0.0989	0.0983	0.0950	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0
BD09697	Antimony, Total	mg/L	0.000458	0.00100	0.100	0.110	0.109	0.100	0.0850 to 0.115	110	70.0 to 130	0.913	20.0
BD09698	Arsenic, Dissolved	mg/L	0.0000204	0.000200	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09697	Arsenic, Total	mg/L	0.0000366	0.000200	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD09698	Barium, Dissolved	mg/L	0.0000163	0.00100	0.100	0.128	0.131	0.102	0.0850 to 0.115	98.5	70.0 to 130	2.32	20.0
BD09697	Barium, Total	mg/L	0.0000072	0.00100	0.100	0.177	0.175	0.102	0.0850 to 0.115	106	70.0 to 130	1.14	20.0
BD09698	Beryllium, Dissolved	mg/L	0.0000492	0.000880	0.100	0.0955	0.0978	0.101	0.0850 to 0.115	95.5	70.0 to 130	2.38	20.0
BD09697	Beryllium, Total	mg/L	0.0000613	0.000880	0.100	0.0946	0.0921	0.0932	0.0850 to 0.115	94.6	70.0 to 130	2.68	20.0
BD09698	Boron, Dissolved	mg/L	0.000260	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09697	Boron, Total	mg/L	0.000664	0.0650	1.00	1.38	1.38	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09698	Cadmium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.0957	0.0973	0.0965	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BD09697	Cadmium, Total	mg/L	0.0000229	0.000147	0.100	0.111	0.110	0.111	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD09698	Calcium, Dissolved	mg/L	0.00492	0.152	5.00	6.90	7.06	5.00	4.25 to 5.75	96.2	70.0 to 130	2.29	20.0
BD09697	Calcium, Total	mg/L	-0.00276	0.152	5.00	56.1	60.0	5.30	4.25 to 5.75	92.0	70.0 to 130	6.72	20.0
BD09697	Chloride	mg/L	-0.052	1.00	10.0	23.1	23.0	10.0	9.00 to 11.0	90.0	80.0 to 120	0.434	20.0
BD09698	Chromium, Dissolved	mg/L	-0.0000242	0.000440	0.100	0.100	0.0992	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.803	20.0
BD09697	Chromium, Total	mg/L	0.0000388	0.000440	0.100	0.103	0.100	0.103	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BD09698	Cobalt, Dissolved	mg/L	-0.0000126	0.000147	0.100	0.0995	0.0984	0.102	0.0850 to 0.115	98.7	70.0 to 130	1.11	20.0
BD09697	Cobalt, Total	mg/L	-0.0000064	0.000147	0.100	0.107	0.105	0.100	0.0850 to 0.115	100	70.0 to 130	1.89	20.0
BD09697	Fluoride	mg/L	0.040	0.125	2.50	2.39	2.79	2.57	2.25 to 2.75	90.2	80.0 to 120	15.4	20.0
BD09698	Iron, Dissolved	mg/L	0.00323	0.0176	0.2	0.205	0.205	0.209	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD09697	Iron, Total	mg/L	0.000586	0.0176	0.2	0.527	0.498	0.211	0.170 to 0.230	128	70.0 to 130	5.66	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 11:17

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-59HO

**Laboratory ID Number:** BD09696

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09698	Lead, Dissolved	mg/L	0.0000178	0.000147	0.100	0.105	0.105	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09697	Lead, Total	mg/L	0.0000206	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD09698	Lithium, Dissolved	mg/L	0.000446	0.0154	0.200	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09697	Lithium, Total	mg/L	0.00115	0.0154	0.200	0.268	0.272	0.200	0.170 to 0.230	97.2	70.0 to 130	1.48	20.0
BD09698	Magnesium, Dissolved	mg/L	0.00588	0.0462	5.00	6.31	6.41	4.99	4.25 to 5.75	96.6	70.0 to 130	1.57	20.0
BD09697	Magnesium, Total	mg/L	0.00203	0.0462	5.00	12.1	12.1	5.19	4.25 to 5.75	98.4	70.0 to 130	0.00	20.0
BD09698	Manganese, Dissolved	mg/L	-0.0000532	0.00033	0.100	0.115	0.114	0.107	0.0850 to 0.115	106	70.0 to 130	0.873	20.0
BD09697	Manganese, Total	mg/L	0.0000837	0.00033	0.100	5.06	5.00	0.107	0.0850 to 0.115	170	70.0 to 130	1.19	20.0
BD09697	Mercury, Total by CVAA	mg/L	-0.0001	0.000500	0.004	0.00387	0.00387	0.00382	0.00340 to 0.00460	96.8	70.0 to 130	0.00	20.0
BD09698	Molybdenum, Dissolved	mg/L	0.00182	0.0100	0.2	0.198	0.199	0.202	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD09697	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.200	0.201	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD09698	Potassium, Dissolved	mg/L	0.0233	0.367	10.0	11.5	11.4	10.3	8.50 to 11.5	99.5	70.0 to 130	0.873	20.0
BD09697	Potassium, Total	mg/L	0.0269	0.367	10.0	16.0	15.5	10.4	8.50 to 11.5	105	70.0 to 130	3.17	20.0
BD09698	Selenium, Dissolved	mg/L	0.000138	0.00100	0.100	0.101	0.100	0.104	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD09697	Selenium, Total	mg/L	0.0000657	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD09698	Silicon, Dissolved	mg/L	0.00125	0.0440	1.00	6.05	6.05	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09697	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.64	4.63	1.03	0.850 to 1.15	117	70.0 to 130	0.216	20.0
BD09698	Sodium, Dissolved	mg/L	0.000231	0.0880	5.00	8.54	8.61	4.97	4.25 to 5.75	96.4	70.0 to 130	0.816	20.0
BD09697	Sodium, Total	mg/L	-0.00380	0.0880	5.00	30.2	30.4	5.03	4.25 to 5.75	88.0	70.0 to 130	0.660	20.0
BD09697	Sulfate	mg/L	1.99	2.0	160	245	256	19.0	18.0 to 22.0	91.3	80.0 to 120	4.39	20.0
BD09698	Thallium, Dissolved	mg/L	-0.0000021	0.000147	0.100	0.108	0.108	0.110	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09697	Thallium, Total	mg/L	0.0000061	0.000147	0.100	0.116	0.115	0.114	0.0850 to 0.115	116	70.0 to 130	0.866	20.0
BD09697	Total Organic Carbon	mg/L	0.148	1.00	10.0	9.96	9.77	8.97		99.6	80.0 to 120	1.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 11:17

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-59HO

**Laboratory ID Number:** BD09696

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09697	Alkalinity	mg CaCO3/L					93.2	50.4	45.0 to 55.0			0.107	10.0
BD09697	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.98	-0.053	1.93	1.80 to 2.20	99.0	90.0 to 110	0.00	15.0
BD09714	Solids, Dissolved	mg/L	0.0000	25.0			279	48.0	40.0 to 60.0			1.78	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-50HO

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 12:09  
**Customer ID:**  
**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09697

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/25/23 14:07	5/26/23 12:14		1.015	0.336	mg/L	0.030000	0.1015	
* Calcium, Total	5/25/23 14:07	5/31/23 15:06		10.15	51.5	mg/L	0.70035	4.06	RA
* Iron, Total	5/25/23 14:07	5/26/23 12:14		1.015	0.272	mg/L	0.008120	0.0406	
* Lithium, Total	5/25/23 14:07	5/26/23 12:14		1.015	0.0737	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/25/23 14:07	5/26/23 12:14		1.015	7.18	mg/L	0.021315	0.406	
* Molybdenum, Total	5/25/23 14:07	5/26/23 12:14		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 12:14		1	7.43	mg/L			
* Silicon, Total	5/25/23 14:07	5/26/23 12:14		1.015	3.47	mg/L	0.02030	0.25375	
* Sodium, Total	5/25/23 14:07	5/26/23 12:14		1.015	25.8	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/25/23 12:47	5/26/23 14:33		1.015	0.337	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/25/23 12:47	5/31/23 16:00		10.15	50.0	mg/L	0.70035	4.06	
* Iron, Dissolved	5/25/23 12:47	5/26/23 14:33		1.015	0.0115	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	5/25/23 12:47	5/26/23 14:33		1.015	0.0720	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/25/23 12:47	5/26/23 14:33		1.015	7.10	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/25/23 12:47	5/26/23 14:33		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/25/23 12:47	5/26/23 14:33		1	6.87	mg/L			
* Silicon, Dissolved	5/25/23 12:47	5/26/23 14:33		1.015	3.21	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/25/23 12:47	5/26/23 14:33		1.015	25.5	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/25/23 14:07	5/30/23 17:08		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/25/23 14:07	5/30/23 17:08		1.015	0.0772	mg/L	0.009135	0.05075	R
* Arsenic, Total	5/25/23 14:07	5/30/23 17:08		1.015	0.000250	mg/L	0.000112	0.000203	
* Barium, Total	5/25/23 14:07	5/30/23 17:08		1.015	0.0707	mg/L	0.000508	0.001015	
* Beryllium, Total	5/25/23 14:07	5/30/23 17:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/25/23 14:07	5/30/23 17:08		1.015	0.000413	mg/L	0.000068	0.000203	
* Chromium, Total	5/25/23 14:07	5/30/23 17:08		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/25/23 14:07	5/30/23 17:08		1.015	0.00702	mg/L	0.000068	0.000203	
* Lead, Total	5/25/23 14:07	5/30/23 17:08		1.015	0.000183	mg/L	0.000068	0.000203	J
* Manganese, Total	5/25/23 14:07	5/30/23 17:44		5.075	4.89	mg/L	0.000761	0.005075	RA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-50HO

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 12:09  
**Customer ID:**  
**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09697

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 17:08		1.015	5.48	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 17:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/25/23 14:07	5/30/23 17:08		1.015	0.0000906	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 12:47	5/30/23 13:02		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 12:47	5/30/23 13:02		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/25/23 12:47	5/30/23 13:02		1.015	0.000135	mg/L	0.000112	0.000203	J
* Barium, Dissolved	5/25/23 12:47	5/30/23 13:02		1.015	0.0678	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 12:47	5/30/23 13:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 12:47	5/30/23 13:02		1.015	0.000249	mg/L	0.000068	0.000203	
* Chromium, Dissolved	5/25/23 12:47	5/30/23 13:02		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/25/23 12:47	5/30/23 13:02		1.015	0.00604	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/25/23 12:47	5/30/23 13:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/25/23 12:47	5/30/23 15:28		5.075	4.76	mg/L	0.000761	0.005075	
* Potassium, Dissolved	5/25/23 12:47	5/30/23 13:02		1.015	5.45	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 12:47	5/30/23 13:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/25/23 12:47	5/30/23 13:02		1.015	0.0000683	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/25/23 23:02		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 09:05	5/25/23 09:05		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/31/23 12:25	5/31/23 14:04		1	93.1	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:15	5/30/23 10:15		1	244	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/31/23 12:25	5/31/23 14:04		1	93.0	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/31/23 12:25	5/31/23 14:04		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 11:38	5/25/23 11:38		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-50HO

**Location Code:** WMWGREAP

**Collected:** 5/23/23 12:09

**Customer ID:**

**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09697

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 14:44	5/24/23 14:44		1	14.1	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:42	5/25/23 10:42		1	0.135	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 15:00	6/6/23 15:00		8	98.9	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/23/23 12:06	5/23/23 12:06			392.13	uS/cm			FA
pH	5/23/23 12:06	5/23/23 12:06			6.24	SU			FA
Temperature	5/23/23 12:06	5/23/23 12:06			18.53	C			FA
Turbidity	5/23/23 12:06	5/23/23 12:06			5.3	NTU			FA
Sulfide	5/23/23 12:06	5/23/23 12:06			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 12:09

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-50HO

**Laboratory ID Number:** BD09697

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09698	Aluminum, Dissolved	mg/L	0.000268	0.0198	0.100	0.118	0.115	0.105	0.0850 to 0.115	102	70.0 to 130	2.58	20.0
BD09697	Aluminum, Total	mg/L	0.000881	0.0198	0.100	0.196	0.219	0.107	0.0850 to 0.115	119	70.0 to 130	11.1	20.0
BD09698	Antimony, Dissolved	mg/L	0.000431	0.00100	0.100	0.0989	0.0983	0.0950	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0
BD09697	Antimony, Total	mg/L	0.000458	0.00100	0.100	0.110	0.109	0.100	0.0850 to 0.115	110	70.0 to 130	0.913	20.0
BD09698	Arsenic, Dissolved	mg/L	0.0000204	0.000200	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09697	Arsenic, Total	mg/L	0.0000366	0.000200	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD09698	Barium, Dissolved	mg/L	0.0000163	0.00100	0.100	0.128	0.131	0.102	0.0850 to 0.115	98.5	70.0 to 130	2.32	20.0
BD09697	Barium, Total	mg/L	0.0000072	0.00100	0.100	0.177	0.175	0.102	0.0850 to 0.115	106	70.0 to 130	1.14	20.0
BD09698	Beryllium, Dissolved	mg/L	0.0000492	0.000880	0.100	0.0955	0.0978	0.101	0.0850 to 0.115	95.5	70.0 to 130	2.38	20.0
BD09697	Beryllium, Total	mg/L	0.0000613	0.000880	0.100	0.0946	0.0921	0.0932	0.0850 to 0.115	94.6	70.0 to 130	2.68	20.0
BD09698	Boron, Dissolved	mg/L	0.000260	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09697	Boron, Total	mg/L	0.000664	0.0650	1.00	1.38	1.38	1.03	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09698	Cadmium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.0957	0.0973	0.0965	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BD09697	Cadmium, Total	mg/L	0.0000229	0.000147	0.100	0.111	0.110	0.111	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BD09698	Calcium, Dissolved	mg/L	0.00492	0.152	5.00	6.90	7.06	5.00	4.25 to 5.75	96.2	70.0 to 130	2.29	20.0
BD09697	Calcium, Total	mg/L	-0.00276	0.152	5.00	56.1	60.0	5.30	4.25 to 5.75	92.0	70.0 to 130	6.72	20.0
BD09697	Chloride	mg/L	-0.052	1.00	10.0	23.1	23.0	10.0	9.00 to 11.0	90.0	80.0 to 120	0.434	20.0
BD09698	Chromium, Dissolved	mg/L	-0.0000242	0.000440	0.100	0.100	0.0992	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.803	20.0
BD09697	Chromium, Total	mg/L	0.0000388	0.000440	0.100	0.103	0.100	0.103	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BD09698	Cobalt, Dissolved	mg/L	-0.0000126	0.000147	0.100	0.0995	0.0984	0.102	0.0850 to 0.115	98.7	70.0 to 130	1.11	20.0
BD09697	Cobalt, Total	mg/L	-0.0000064	0.000147	0.100	0.107	0.105	0.100	0.0850 to 0.115	100	70.0 to 130	1.89	20.0
BD09697	Fluoride	mg/L	0.040	0.125	2.50	2.39	2.79	2.57	2.25 to 2.75	90.2	80.0 to 120	15.4	20.0
BD09698	Iron, Dissolved	mg/L	0.00323	0.0176	0.2	0.205	0.205	0.209	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD09697	Iron, Total	mg/L	0.000586	0.0176	0.2	0.527	0.498	0.211	0.170 to 0.230	128	70.0 to 130	5.66	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 12:09

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-50HO

**Laboratory ID Number:** BD09697

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09698	Lead, Dissolved	mg/L	0.0000178	0.000147	0.100	0.105	0.105	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09697	Lead, Total	mg/L	0.0000206	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BD09698	Lithium, Dissolved	mg/L	0.000446	0.0154	0.200	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09697	Lithium, Total	mg/L	0.00115	0.0154	0.200	0.268	0.272	0.200	0.170 to 0.230	97.2	70.0 to 130	1.48	20.0
BD09698	Magnesium, Dissolved	mg/L	0.00588	0.0462	5.00	6.31	6.41	4.99	4.25 to 5.75	96.6	70.0 to 130	1.57	20.0
BD09697	Magnesium, Total	mg/L	0.00203	0.0462	5.00	12.1	12.1	5.19	4.25 to 5.75	98.4	70.0 to 130	0.00	20.0
BD09698	Manganese, Dissolved	mg/L	-0.0000532	0.00033	0.100	0.115	0.114	0.107	0.0850 to 0.115	106	70.0 to 130	0.873	20.0
BD09697	Manganese, Total	mg/L	0.0000837	0.00033	0.100	5.06	5.00	0.107	0.0850 to 0.115	170	70.0 to 130	1.19	20.0
BD09697	Mercury, Total by CVAA	mg/L	-0.0001	0.000500	0.004	0.00387	0.00387	0.00382	0.00340 to 0.00460	96.8	70.0 to 130	0.00	20.0
BD09698	Molybdenum, Dissolved	mg/L	0.00182	0.0100	0.2	0.198	0.199	0.202	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD09697	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.200	0.201	0.199	0.170 to 0.230	100	70.0 to 130	0.499	20.0
BD09698	Potassium, Dissolved	mg/L	0.0233	0.367	10.0	11.5	11.4	10.3	8.50 to 11.5	99.5	70.0 to 130	0.873	20.0
BD09697	Potassium, Total	mg/L	0.0269	0.367	10.0	16.0	15.5	10.4	8.50 to 11.5	105	70.0 to 130	3.17	20.0
BD09698	Selenium, Dissolved	mg/L	0.000138	0.00100	0.100	0.101	0.100	0.104	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD09697	Selenium, Total	mg/L	0.0000657	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD09698	Silicon, Dissolved	mg/L	0.00125	0.0440	1.00	6.05	6.05	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09697	Silicon, Total	mg/L	-0.000339	0.0440	1.00	4.64	4.63	1.03	0.850 to 1.15	117	70.0 to 130	0.216	20.0
BD09698	Sodium, Dissolved	mg/L	0.000231	0.0880	5.00	8.54	8.61	4.97	4.25 to 5.75	96.4	70.0 to 130	0.816	20.0
BD09697	Sodium, Total	mg/L	-0.00380	0.0880	5.00	30.2	30.4	5.03	4.25 to 5.75	88.0	70.0 to 130	0.660	20.0
BD09697	Sulfate	mg/L	1.99	2.0	160	245	256	19.0	18.0 to 22.0	91.3	80.0 to 120	4.39	20.0
BD09698	Thallium, Dissolved	mg/L	-0.0000021	0.000147	0.100	0.108	0.108	0.110	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09697	Thallium, Total	mg/L	0.0000061	0.000147	0.100	0.116	0.115	0.114	0.0850 to 0.115	116	70.0 to 130	0.866	20.0
BD09697	Total Organic Carbon	mg/L	0.148	1.00	10.0	9.96	9.77	8.97		99.6	80.0 to 120	1.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 12:09

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-50HO

**Laboratory ID Number:** BD09697

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09697	Alkalinity	mg CaCO3/L					93.2	50.4	45.0 to 55.0			0.107	10.0
BD09697	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.98	-0.053	1.93	1.80 to 2.20	99.0	90.0 to 110	0.00	15.0
BD09714	Solids, Dissolved	mg/L	0.0000	25.0			279	48.0	40.0 to 60.0			1.78	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-55HO

**Location Code:** WMWGREAP  
**Collected:** 5/23/23 13:20  
**Customer ID:**  
**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09698

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/25/23 14:07	5/26/23 12:29		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/25/23 14:07	5/26/23 12:29		1.015	2.01	mg/L	0.070035	0.406	
* Iron, Total	5/25/23 14:07	5/26/23 12:29		1.015	0.0719	mg/L	0.008120	0.0406	
* Lithium, Total	5/25/23 14:07	5/26/23 12:29		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/25/23 14:07	5/26/23 12:29		1.015	1.49	mg/L	0.021315	0.406	
* Molybdenum, Total	5/25/23 14:07	5/26/23 12:29		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/25/23 14:07	5/26/23 12:29		1	11.0	mg/L			
* Silicon, Total	5/25/23 14:07	5/26/23 12:29		1.015	5.13	mg/L	0.02030	0.25375	
* Sodium, Total	5/25/23 14:07	5/26/23 12:29		1.015	3.64	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/25/23 12:47	5/26/23 14:36		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	5/25/23 12:47	5/26/23 14:36		1.015	2.09	mg/L	0.070035	0.406	
* Iron, Dissolved	5/25/23 12:47	5/26/23 14:36		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/25/23 12:47	5/26/23 14:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/25/23 12:47	5/26/23 14:36		1.015	1.48	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/25/23 12:47	5/26/23 14:36		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	5/25/23 12:47	5/26/23 14:36		1	10.7	mg/L			
* Silicon, Dissolved	5/25/23 12:47	5/26/23 14:36		1.015	5.01	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/25/23 12:47	5/26/23 14:36		1.015	3.72	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/25/23 14:07	5/30/23 17:29		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/25/23 14:07	5/30/23 17:29		1.015	0.0555	mg/L	0.009135	0.05075	R
* Arsenic, Total	5/25/23 14:07	5/30/23 17:29		1.015	0.000116	mg/L	0.000112	0.000203	J
* Barium, Total	5/25/23 14:07	5/30/23 17:29		1.015	0.0302	mg/L	0.000508	0.001015	
* Beryllium, Total	5/25/23 14:07	5/30/23 17:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/25/23 14:07	5/30/23 17:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/25/23 14:07	5/30/23 17:29		1.015	0.000518	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/25/23 14:07	5/30/23 17:29		1.015	0.000861	mg/L	0.000068	0.000203	
* Lead, Total	5/25/23 14:07	5/30/23 17:29		1.015	0.0000854	mg/L	0.000068	0.000203	J
* Manganese, Total	5/25/23 14:07	5/30/23 17:29		1.015	0.00989	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-55HO

**Location Code:** WMWGREAP

**Collected:** 5/23/23 13:20

**Customer ID:**

**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09698

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/25/23 14:07	5/30/23 17:29		1.015	1.63	mg/L	0.169505	0.5075	
* Selenium, Total	5/25/23 14:07	5/30/23 17:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/25/23 14:07	5/30/23 17:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/25/23 12:47	5/30/23 13:05		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/25/23 12:47	5/30/23 13:05		1.015	0.0156	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	5/25/23 12:47	5/30/23 13:05		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	5/25/23 12:47	5/30/23 13:05		1.015	0.0295	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/25/23 12:47	5/30/23 13:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/25/23 12:47	5/30/23 13:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/25/23 12:47	5/30/23 13:05		1.015	0.000209	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/25/23 12:47	5/30/23 13:05		1.015	0.000763	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/25/23 12:47	5/30/23 13:05		1.015	0.000149	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	5/25/23 12:47	5/30/23 13:05		1.015	0.00939	mg/L	0.000152	0.001015	
* Potassium, Dissolved	5/25/23 12:47	5/30/23 13:05		1.015	1.55	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/25/23 12:47	5/30/23 13:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/25/23 12:47	5/30/23 13:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/25/23 18:02	5/25/23 23:21		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: SC</b>							
* Nitrogen, Nitrate/Nitrite	5/25/23 09:10	5/25/23 09:10		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/31/23 12:25	5/31/23 14:04		1	8.84	mg CaCO3/L		0.1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/24/23 14:15	5/30/23 10:15		1	34.0	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/31/23 12:25	5/31/23 14:04		1	8.84	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/31/23 12:25	5/31/23 14:04		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/25/23 12:46	5/25/23 12:46		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-55HO

**Location Code:** WMWGREAP

**Collected:** 5/23/23 13:20

**Customer ID:**

**Submittal Date:** 5/24/23 11:46

**Laboratory ID Number:** BD09698

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 14:59	5/24/23 14:59		1	2.98	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:53	5/25/23 10:53		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	6/6/23 15:13	6/6/23 15:13		1	5.78	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/23/23 13:17	5/23/23 13:17			44.87	uS/cm			FA
pH	5/23/23 13:17	5/23/23 13:17			5.05	SU			FA
Temperature	5/23/23 13:17	5/23/23 13:17			18.49	C			FA
Turbidity	5/23/23 13:17	5/23/23 13:17			6.9	NTU			FA
Sulfide	5/23/23 13:17	5/23/23 13:17			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 13:20

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-55HO

**Laboratory ID Number:** BD09698

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09698	Aluminum, Dissolved	mg/L	0.000268	0.0198	0.100	0.118	0.115	0.105	0.0850 to 0.115	102	70.0 to 130	2.58	20.0
BD09698	Aluminum, Total	mg/L	0.000881	0.0198	0.100	0.196	0.198	0.107	0.0850 to 0.115	140	70.0 to 130	1.02	20.0
BD09698	Antimony, Dissolved	mg/L	0.000431	0.00100	0.100	0.0989	0.0983	0.0950	0.0850 to 0.115	98.9	70.0 to 130	0.609	20.0
BD09698	Antimony, Total	mg/L	0.000458	0.00100	0.100	0.100	0.101	0.100	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD09698	Arsenic, Dissolved	mg/L	0.0000204	0.000200	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09698	Arsenic, Total	mg/L	0.0000366	0.000200	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09698	Barium, Dissolved	mg/L	0.0000163	0.00100	0.100	0.128	0.131	0.102	0.0850 to 0.115	98.5	70.0 to 130	2.32	20.0
BD09698	Barium, Total	mg/L	0.0000072	0.00100	0.100	0.130	0.134	0.102	0.0850 to 0.115	99.8	70.0 to 130	3.03	20.0
BD09698	Beryllium, Dissolved	mg/L	0.0000492	0.000880	0.100	0.0955	0.0978	0.101	0.0850 to 0.115	95.5	70.0 to 130	2.38	20.0
BD09698	Beryllium, Total	mg/L	0.0000613	0.000880	0.100	0.0942	0.0947	0.0932	0.0850 to 0.115	94.2	70.0 to 130	0.529	20.0
BD09698	Boron, Dissolved	mg/L	0.000260	0.0650	1.00	1.05	1.05	1.04	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD09698	Boron, Total	mg/L	0.000664	0.0650	1.00	1.06	1.05	1.03	0.850 to 1.15	106	70.0 to 130	0.948	20.0
BD09698	Cadmium, Dissolved	mg/L	0.0000070	0.000147	0.100	0.0957	0.0973	0.0965	0.0850 to 0.115	95.7	70.0 to 130	1.66	20.0
BD09698	Cadmium, Total	mg/L	0.0000229	0.000147	0.100	0.110	0.112	0.111	0.0850 to 0.115	110	70.0 to 130	1.80	20.0
BD09698	Calcium, Dissolved	mg/L	0.00492	0.152	5.00	6.90	7.06	5.00	4.25 to 5.75	96.2	70.0 to 130	2.29	20.0
BD09698	Calcium, Total	mg/L	-0.00276	0.152	5.00	7.06	7.20	5.30	4.25 to 5.75	101	70.0 to 130	1.96	20.0
BD09698	Chloride	mg/L	-0.0355	1.00	10.0	13.2	13.3	10.0	9.00 to 11.0	102	80.0 to 120	0.755	20.0
BD09698	Chromium, Dissolved	mg/L	-0.0000242	0.000440	0.100	0.100	0.0992	0.103	0.0850 to 0.115	99.8	70.0 to 130	0.803	20.0
BD09698	Chromium, Total	mg/L	0.0000388	0.000440	0.100	0.101	0.103	0.103	0.0850 to 0.115	100	70.0 to 130	1.96	20.0
BD09698	Cobalt, Dissolved	mg/L	-0.0000126	0.000147	0.100	0.0995	0.0984	0.102	0.0850 to 0.115	98.7	70.0 to 130	1.11	20.0
BD09698	Cobalt, Total	mg/L	-0.0000064	0.000147	0.100	0.0999	0.102	0.100	0.0850 to 0.115	99.0	70.0 to 130	2.08	20.0
BD09698	Fluoride	mg/L	0.0634	0.125	2.50	2.34	2.49	2.58	2.25 to 2.75	93.6	80.0 to 120	6.21	20.0
BD09698	Iron, Dissolved	mg/L	0.00323	0.0176	0.2	0.205	0.205	0.209	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD09698	Iron, Total	mg/L	0.000586	0.0176	0.2	0.283	0.283	0.211	0.170 to 0.230	106	70.0 to 130	0.00	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 13:20

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-55HO

**Laboratory ID Number:** BD09698

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD09698	Lead, Dissolved	mg/L	0.0000178	0.000147	0.100	0.105	0.105	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09698	Lead, Total	mg/L	0.0000206	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BD09698	Lithium, Dissolved	mg/L	0.000446	0.0154	0.200	0.201	0.202	0.203	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09698	Lithium, Total	mg/L	0.00115	0.0154	0.200	0.203	0.201	0.200	0.170 to 0.230	102	70.0 to 130	0.990	20.0
BD09698	Magnesium, Dissolved	mg/L	0.00588	0.0462	5.00	6.31	6.41	4.99	4.25 to 5.75	96.6	70.0 to 130	1.57	20.0
BD09698	Magnesium, Total	mg/L	0.00203	0.0462	5.00	6.51	6.50	5.19	4.25 to 5.75	100	70.0 to 130	0.154	20.0
BD09698	Manganese, Dissolved	mg/L	-0.0000532	0.00033	0.100	0.115	0.114	0.107	0.0850 to 0.115	106	70.0 to 130	0.873	20.0
BD09698	Manganese, Total	mg/L	0.0000837	0.00033	0.100	0.116	0.118	0.107	0.0850 to 0.115	106	70.0 to 130	1.71	20.0
BD09698	Mercury, Total by CVAA	mg/L	-0.0001	0.000500	0.004	0.00387	0.00387	0.00382	0.00340 to 0.00460	96.8	70.0 to 130	0.00	20.0
BD09698	Molybdenum, Dissolved	mg/L	0.00182	0.0100	0.2	0.198	0.199	0.202	0.170 to 0.230	99.0	70.0 to 130	0.504	20.0
BD09698	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.199	0.199	0.199	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BD09698	Potassium, Dissolved	mg/L	0.0233	0.367	10.0	11.5	11.4	10.3	8.50 to 11.5	99.5	70.0 to 130	0.873	20.0
BD09698	Potassium, Total	mg/L	0.0269	0.367	10.0	11.8	11.8	10.4	8.50 to 11.5	102	70.0 to 130	0.00	20.0
BD09698	Selenium, Dissolved	mg/L	0.000138	0.00100	0.100	0.101	0.100	0.104	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BD09698	Selenium, Total	mg/L	0.0000657	0.00100	0.100	0.100	0.102	0.101	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD09698	Silicon, Dissolved	mg/L	0.00125	0.0440	1.00	6.05	6.05	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09698	Silicon, Total	mg/L	-0.000339	0.0440	1.00	6.24	6.24	1.03	0.850 to 1.15	111	70.0 to 130	0.00	20.0
BD09698	Sodium, Dissolved	mg/L	0.000231	0.0880	5.00	8.54	8.61	4.97	4.25 to 5.75	96.4	70.0 to 130	0.816	20.0
BD09698	Sodium, Total	mg/L	-0.00380	0.0880	5.00	8.64	8.56	5.03	4.25 to 5.75	100	70.0 to 130	0.930	20.0
BD09698	Sulfate	mg/L	0.370	2.0	20.0	25.8	26.3	19.4	18.0 to 22.0	100	80.0 to 120	1.92	20.0
BD09698	Thallium, Dissolved	mg/L	-0.0000021	0.000147	0.100	0.108	0.108	0.110	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BD09698	Thallium, Total	mg/L	0.0000061	0.000147	0.100	0.113	0.114	0.114	0.0850 to 0.115	113	70.0 to 130	0.881	20.0
BD09698	Total Organic Carbon	mg/L	0.167	1.00	10.0	10.1	10.6	9.74		101	80.0 to 120	4.83	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/23/23 13:20

**Customer ID:**

**Delivery Date:** 5/24/23 11:46

**Description:** Greene County Ash Pond - MW-55HO

**Laboratory ID Number:** BD09698

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09697	Alkalinity	mg CaCO3/L					93.2	50.4	45.0 to 55.0			0.107	10.0
BD09698	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	2.12	0.160	2.02	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BD09714	Solids, Dissolved	mg/L	0.0000	25.0			279	48.0	40.0 to 60.0			1.78	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Definitions

**Project Number:** WMWGREAP\_1411

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
R	Matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector		Dallas Gentry
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-62HO	05/22/2023	12:25	6	Groundwater		BD09688	<input checked="" type="checkbox"/>
MW-63HO	05/22/2023	13:21	6	Groundwater		BD09689	<input checked="" type="checkbox"/>
FB-1	05/22/2023	13:40	5	Field Blank		BD09690	<input checked="" type="checkbox"/>
MW-47HO	05/22/2023	14:22	6	Groundwater		BD09691	<input checked="" type="checkbox"/>
EB-1	05/22/2023	15:00	5	Equipment Blank		BD09692	<input checked="" type="checkbox"/>
MW-60HO	05/23/2023	08:42	6	Groundwater		BD09693	<input checked="" type="checkbox"/>
MW-60HO dup	05/23/2023	08:42	6	Sample Duplicate		BD09694	<input checked="" type="checkbox"/>
MW-61HO	05/23/2023	10:18	6	Groundwater		BD09695	<input checked="" type="checkbox"/>
MW-59HO	05/23/2023	11:17	6	Groundwater		BD09696	<input checked="" type="checkbox"/>
MW-50HO	05/23/2023	12:09	6	Groundwater		BD09697	<input checked="" type="checkbox"/>
MW-55HO	05/23/2023	13:20	6	Groundwater		BD09698	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
		05/23/2023 15:48
		05/24/2023 10:19

SmarTroll ID	7586-41443-5-2	Cooler Temp	1.4 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1411	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector		Dallas Gentry
		Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Radium MS/MSD collected at MW-47HO

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-62HO	05/22/2023	12:25	1	Groundwater		BD09699	<input checked="" type="checkbox"/>
MW-63HO	05/22/2023	13:21	1	Groundwater		BD09700	<input checked="" type="checkbox"/>
FB-1	05/22/2023	13:40	1	Field Blank		BD09701	<input checked="" type="checkbox"/>
MW-47HO	05/22/2023	14:22	3	Groundwater		BD09702	<input checked="" type="checkbox"/>
EB-1	05/22/2023	15:00	1	Equipment Blank		BD09703	<input checked="" type="checkbox"/>
MW-60HO	05/23/2023	08:42	1	Groundwater		BD09704	<input checked="" type="checkbox"/>
MW-60HO dup	05/23/2023	08:42	1	Sample Duplicate		BD09705	<input checked="" type="checkbox"/>
MW-61HO	05/23/2023	10:18	1	Groundwater		BD09706	<input checked="" type="checkbox"/>
MW-59HO	05/23/2023	11:17	1	Groundwater		BD09707	<input checked="" type="checkbox"/>
MW-50HO	05/23/2023	12:09	1	Groundwater		BD09708	<input checked="" type="checkbox"/>
MW-55HO	05/23/2023	13:20	1	Groundwater		BD09709	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i> Dallas Gentry	<i>Greg Dyer</i> Greg Dyer	05/23/2023 15:48
	<i>Buck Carter</i> Buck Carter	05/24/2023 10:19

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1411	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks

Alabama Power  
General Test Laboratory  
744 County Road 87, GSC #8  
Calera, AL 35040  
205-664-6001

# *Analytical Report*



**Sample Group :** WMWGREAP\_1412

**Project/Site :** Greene County Ash Pond  
Demopolis, AL 36732

**For :** Southern Company Services  
3535 Colonnade Parkway  
Birmingham, AL 35243

**Attention :** Dustin Brooks & Greg Dyer

**Released By :** Brooke Caton  
tbwill@southernco.com  
(205) 664-6101

June 12, 2023

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 2023. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114  
Issued By: State of Florida, Department of Health  
Expiration: June 30, 2023

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Quality Control: **Brooke  
Caton**

Digitally signed by Brooke  
Caton  
Date: 2023.06.12  
12:36:02 -05'00'

Supervision: **T Durant  
Maske**

Digitally signed by T Durant Maske  
DN: cn=T Durant Maske, g=T Durant Maske, o=US  
United States, i=US, United States  
e=tdmaske@scouthemco.com  
Reason: I am the author of this document  
Location:  
Date: 2023-06-12 14:47:05-00



### REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.  
This document shall not be reproduced, except in full, without written consent from  
Alabama Power's General Test Laboratory.



## Case Narrative

Total Metals ICP

Greene Co. Ash Pond

WMWGREAP\_1412

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09428	755741	WMWGREAP_1412
BD09429	755741	WMWGREAP_1412
BD09430	755741	WMWGREAP_1412
BD09431	755741	WMWGREAP_1412
BD09432	755741	WMWGREAP_1412

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed, and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

## Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09428	Calcium	10.15
BD09429	Calcium	10.15
BD09430	Calcium	10.15

8. The raw data results are shown with dilution factors included.



Dissolved Metals ICP

Greene Co. Ash Pond

WMWGREAP\_1412

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09428	755665	WMWGREAP_1412
BD09429	755665	WMWGREAP_1412
BD09430	755665	WMWGREAP_1412

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

## Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
    - BD09430 Calcium MS/MSD spike levels were <30% of the sample concentrations.
  - 
  - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09428	Calcium	10.15
BD09429	Calcium	10.15
BD09430	Calcium	10.15

8. The raw data results are shown with dilution factors included.

Total Metals ICPMS

Greene Co. Ash Pond

WMWGREAP\_1412

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09428	755951	WMWGREAP_1412
BD09429	755951	WMWGREAP_1412
BD09430	755951	WMWGREAP_1412
BD09431	755951	WMWGREAP_1412
BD09432	755951	WMWGREAP_1412

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

## Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09428	Manganese	5.075
BD09429	Manganese	5.075
BD09430	Manganese	5.075

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Greene Co. Ash Pond

WMWGREAP\_1412

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09428	756093	WMWGREAP_1412
BD09429	756093	WMWGREAP_1412
BD09430	756093	WMWGREAP_1412

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

## Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
    - BD09430 Manganese MS/MSD spike levels were <30% of the sample concentrations.
  - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09428	Manganese	5.075
BD09429	Manganese	5.075
BD09430	Manganese	5.075

8. The raw data results are shown with dilution factors included.

Mercury

Greene Co. Ash Pond

WMWGREAP\_1412

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09428	755822	WMWGREAP_1412
BD09429	755822	WMWGREAP_1412
BD09430	755822	WMWGREAP_1412
BD09431	755822	WMWGREAP_1412
BD09432	755822	WMWGREAP_1412

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.



Total Dissolved Solids

Greene Co. Ash Pond

WMWGREAP\_1412

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09428	755804	WMWGREAP_1412
BD09429	755804	WMWGREAP_1412
BD09430	755804	WMWGREAP_1412
BD09431	755804	WMWGREAP_1412
BD09432	755804	WMWGREAP_1412

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was  $\leq 10\%$ .
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue  $< 2.5\text{mg}$  had the maximum volume of 150mL filtered. Affected samples are as follows:
  - BD09431
  - BD09432

Alkalinity

Greene Co. Ash Pond

WMWGREAP\_1412

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09428	756580, 756581, 756582	WMWGREAP_1412
BD09429	756580, 756581, 756582	WMWGREAP_1412
BD09430	756580, 756581, 756582	WMWGREAP_1412

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.

## Anions

Greene Co. Ash Pond

WMWGREAP\_1412

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09428	756411, 756413, 755790	WMWGREAP_1412
BD09429	756411, 756413, 755790	WMWGREAP_1412
BD09430	756411, 756413, 755790	WMWGREAP_1412
BD09431	756411, 756413, 755790	WMWGREAP_1412
BD09432	756411, 756413, 755790	WMWGREAP_1412

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.

Revision 5

## Case Narrative

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD09428	Sulfate	8
BD09429	Sulfate	4
BD09430	Sulfate	4

8. The raw data results are shown with dilution factors included.

Nitrate-Nitrite

Greene Co. Ash Pond

WMWGREAP\_1412

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09428	755800	WMWGREAP_1412
BD09429	755800	WMWGREAP_1412
BD09430	755800	WMWGREAP_1412
BD09431	755800	WMWGREAP_1412
BD09432	755800	WMWGREAP_1412

4. All of the above samples were prepared and analyzed for NO<sub>x</sub> by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

#### EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
  - Matrix Specific QC:
    - A sample duplicate was run and criteria for precision was met.
    - A matrix spike was run and criteria for accuracy was met.
7. All samples were analyzed without a dilution factor.
  8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Greene Co. Ash Pond

WMWGREAP\_1412

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD09428	755765	WMWGREAP_1412
BD09429	755765	WMWGREAP_1412
BD09430	755765	WMWGREAP_1412
BD09431	755765	WMWGREAP_1412
BD09432	755765	WMWGREAP_1412

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

#### Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
  8. The raw data results are shown with dilution factors included.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-64HO

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 08:56  
**Customer ID:**  
**Submittal Date:** 5/18/23 11:07

**Laboratory ID Number:** BD09428

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/19/23 11:37	5/22/23 14:52		1.015	0.464	mg/L	0.030000	0.1015	
* Calcium, Total	5/19/23 11:37	5/24/23 12:40		10.15	65.1	mg/L	0.70035	4.06	
* Iron, Total	5/19/23 11:37	5/22/23 14:52		1.015	0.0766	mg/L	0.008120	0.0406	
* Lithium, Total	5/19/23 11:37	5/22/23 14:52		1.015	0.156	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/19/23 11:37	5/22/23 14:52		1.015	17.0	mg/L	0.021315	0.406	
* Molybdenum, Total	5/19/23 11:37	5/22/23 14:52		1.015	0.0720	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 14:52		1	6.38	mg/L			
* Silicon, Total	5/19/23 11:37	5/22/23 14:52		1.015	2.98	mg/L	0.02030	0.25375	
* Sodium, Total	5/19/23 11:37	5/22/23 14:52		1.015	21.9	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>							
* Boron, Dissolved	5/19/23 08:52	5/19/23 12:14		1.015	0.452	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/19/23 08:52	5/19/23 15:14		10.15	63.5	mg/L	0.70035	4.06	
* Iron, Dissolved	5/19/23 08:52	5/19/23 12:14		1.015	0.0105	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	5/19/23 08:52	5/19/23 12:14		1.015	0.152	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/19/23 08:52	5/19/23 12:14		1.015	16.4	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/19/23 08:52	5/19/23 12:14		1.015	0.0721	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	5/19/23 08:52	5/19/23 12:14		1	6.12	mg/L			
* Silicon, Dissolved	5/19/23 08:52	5/19/23 12:14		1.015	2.86	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/19/23 08:52	5/19/23 12:14		1.015	21.6	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/19/23 11:37	5/19/23 18:05		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/19/23 11:37	5/19/23 18:05		1.015	0.105	mg/L	0.009135	0.05075	
* Arsenic, Total	5/19/23 11:37	5/19/23 18:05		1.015	0.000335	mg/L	0.000112	0.000203	
* Barium, Total	5/19/23 11:37	5/19/23 18:05		1.015	0.0753	mg/L	0.000508	0.001015	
* Beryllium, Total	5/19/23 11:37	5/19/23 18:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/19/23 11:37	5/19/23 18:05		1.015	0.000154	mg/L	0.000068	0.000203	J
* Chromium, Total	5/19/23 11:37	5/19/23 18:05		1.015	0.000460	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/19/23 11:37	5/19/23 18:05		1.015	0.00301	mg/L	0.000068	0.000203	
* Lead, Total	5/19/23 11:37	5/19/23 18:05		1.015	0.0000823	mg/L	0.000068	0.000203	J
* Manganese, Total	5/19/23 11:37	5/19/23 18:30		5.075	4.58	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-64HO

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 08:56  
**Customer ID:**  
**Submittal Date:** 5/18/23 11:07

**Laboratory ID Number:** BD09428

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/19/23 11:37	5/19/23 18:05		1.015	5.68	mg/L	0.169505	0.5075	
* Selenium, Total	5/19/23 11:37	5/19/23 18:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/19/23 11:37	5/19/23 18:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/19/23 08:52	5/19/23 10:19		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/19/23 08:52	5/19/23 10:19		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/19/23 08:52	5/19/23 10:19		1.015	0.000298	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/19/23 08:52	5/19/23 10:19		1.015	0.0677	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/19/23 08:52	5/19/23 10:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/19/23 08:52	5/19/23 10:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/19/23 08:52	5/19/23 10:19		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/19/23 08:52	5/19/23 10:19		1.015	0.00293	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/19/23 08:52	5/19/23 10:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/19/23 08:52	5/19/23 11:05		5.075	4.57	mg/L	0.000761	0.005075	
* Potassium, Dissolved	5/19/23 08:52	5/19/23 10:19		1.015	5.65	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/19/23 08:52	5/19/23 10:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/19/23 08:52	5/19/23 10:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/24/23 14:22	5/24/23 19:44		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	5/19/23 13:29	5/19/23 13:29		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/30/23 13:30	5/30/23 14:01		1	115	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/19/23 10:40	5/23/23 10:40		1	318	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/30/23 13:30	5/30/23 14:01		1	115	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/30/23 13:30	5/30/23 14:01		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 17:40	5/22/23 17:40		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-64HO

**Location Code:** WMWGREAP

**Collected:** 5/17/23 08:56

**Customer ID:**

**Submittal Date:** 5/18/23 11:07

**Laboratory ID Number:** BD09428

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 11:37	5/24/23 11:37		1	9.97	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 09:59	5/25/23 09:59		1	0.253	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 15:37	5/18/23 15:37		8	130	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/17/23 08:53	5/17/23 08:53			468.99	uS/cm			FA
pH	5/17/23 08:53	5/17/23 08:53			6.86	SU			FA
Temperature	5/17/23 08:53	5/17/23 08:53			19.66	C			FA
Turbidity	5/17/23 08:53	5/17/23 08:53			4.88	NTU			FA
Sulfide	5/17/23 08:53	5/17/23 08:53			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 08:56

**Customer ID:**

**Delivery Date:** 5/18/23 11:07

**Description:** Greene County Ash Pond - MW-64HO

**Laboratory ID Number:** BD09428

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09430	Aluminum, Dissolved	mg/L	-0.000625	0.0198	0.100	0.0991	0.102	0.101	0.0850 to 0.115	99.1	70.0 to 130	2.88	20.0
BD09432	Aluminum, Total	mg/L	0.000659	0.0198	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD09430	Antimony, Dissolved	mg/L	0.000368	0.00100	0.100	0.0912	0.0935	0.0938	0.0850 to 0.115	91.2	70.0 to 130	2.49	20.0
BD09432	Antimony, Total	mg/L	0.000464	0.00100	0.100	0.0995	0.0988	0.102	0.0850 to 0.115	99.5	70.0 to 130	0.706	20.0
BD09430	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.103	0.106	0.102	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BD09432	Arsenic, Total	mg/L	0.0000592	0.000200	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD09430	Barium, Dissolved	mg/L	0.0000312	0.00100	0.100	0.151	0.155	0.101	0.0850 to 0.115	98.2	70.0 to 130	2.61	20.0
BD09432	Barium, Total	mg/L	0.0000224	0.00100	0.100	0.110	0.110	0.112	0.0850 to 0.115	110	70.0 to 130	0.00	20.0
BD09430	Beryllium, Dissolved	mg/L	0.0000492	0.000880	0.100	0.102	0.104	0.106	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD09432	Beryllium, Total	mg/L	0.0000283	0.000880	0.100	0.100	0.105	0.100	0.0850 to 0.115	100	70.0 to 130	4.88	20.0
BD09430	Boron, Dissolved	mg/L	-0.00192	0.0650	1.00	1.33	1.33	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD09432	Boron, Total	mg/L	0.000134	0.0650	1.00	1.04	1.04	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09430	Cadmium, Dissolved	mg/L	0.0000180	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD09432	Cadmium, Total	mg/L	0.0000114	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09430	Calcium, Dissolved	mg/L	-0.0167	0.152	5.00	51.5	53.2	4.98	4.25 to 5.75	34.0	70.0 to 130	3.25	20.0
BD09432	Calcium, Total	mg/L	-0.00154	0.152	5.00	5.20	5.13	5.24	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BD09432	Chloride	mg/L	0.00651	1.00	10.0	10.0	9.88	9.89	9.00 to 11.0	100	80.0 to 120	1.21	20.0
BD09430	Chromium, Dissolved	mg/L	-0.0000125	0.000440	0.100	0.0994	0.103	0.0998	0.0850 to 0.115	99.2	70.0 to 130	3.56	20.0
BD09432	Chromium, Total	mg/L	-0.0000041	0.000440	0.100	0.103	0.101	0.101	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD09430	Cobalt, Dissolved	mg/L	-0.0000283	0.000147	0.100	0.102	0.105	0.102	0.0850 to 0.115	99.3	70.0 to 130	2.90	20.0
BD09432	Cobalt, Total	mg/L	-0.0000409	0.000147	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09432	Fluoride	mg/L	0.0391	0.125	2.50	2.58	2.67	2.59	2.25 to 2.75	103	80.0 to 120	3.43	20.0
BD09430	Iron, Dissolved	mg/L	-0.000514	0.0176	0.2	0.204	0.202	0.202	0.170 to 0.230	102	70.0 to 130	0.985	20.0
BD09432	Iron, Total	mg/L	0.000380	0.0176	0.2	0.206	0.204	0.209	0.170 to 0.230	103	70.0 to 130	0.976	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 08:56

**Customer ID:**

**Delivery Date:** 5/18/23 11:07

**Description:** Greene County Ash Pond - MW-64HO

**Laboratory ID Number:** BD09428

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09430	Lead, Dissolved	mg/L	0.0000100	0.000147	0.100	0.105	0.108	0.103	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BD09432	Lead, Total	mg/L	0.0000088	0.000147	0.100	0.106	0.105	0.103	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD09430	Lithium, Dissolved	mg/L	0.00104	0.0154	0.200	0.301	0.303	0.196	0.170 to 0.230	97.5	70.0 to 130	0.662	20.0
BD09432	Lithium, Total	mg/L	0.000826	0.0154	0.200	0.205	0.205	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD09430	Magnesium, Dissolved	mg/L	0.00549	0.0462	5.00	20.8	20.9	4.83	4.25 to 5.75	96.0	70.0 to 130	0.480	20.0
BD09432	Magnesium, Total	mg/L	-0.00218	0.0462	5.00	5.10	5.05	5.01	4.25 to 5.75	101	70.0 to 130	0.985	20.0
BD09430	Manganese, Dissolved	mg/L	0.0000105	0.00033	0.100	3.07	2.98	0.102	0.0850 to 0.115	200	70.0 to 130	2.98	20.0
BD09432	Manganese, Total	mg/L	0.000105	0.00033	0.100	0.106	0.103	0.103	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD09432	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00393	0.00392	0.0039	0.00340 to 0.00460	98.2	70.0 to 130	0.255	20.0
BD09430	Molybdenum, Dissolved	mg/L	0.00202	0.0100	0.2	0.265	0.263	0.198	0.170 to 0.230	99.6	70.0 to 130	0.758	20.0
BD09432	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.201	0.202	0.202	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09430	Potassium, Dissolved	mg/L	0.00333	0.367	10.0	14.8	15.1	9.81	8.50 to 11.5	96.7	70.0 to 130	2.01	20.0
BD09432	Potassium, Total	mg/L	0.00933	0.367	10.0	10.3	10.2	9.96	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BD09430	Selenium, Dissolved	mg/L	0.000136	0.00100	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD09432	Selenium, Total	mg/L	0.000143	0.00100	0.100	0.101	0.0993	0.101	0.0850 to 0.115	101	70.0 to 130	1.70	20.0
BD09430	Silicon, Dissolved	mg/L	0.000898	0.0440	1.00	2.91	2.89	1.02	0.850 to 1.15	104	70.0 to 130	0.690	20.0
BD09432	Silicon, Total	mg/L	0.000455	0.0440	1.00	1.03	1.03	1.03	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD09430	Sodium, Dissolved	mg/L	0.00643	0.0880	5.00	18.7	18.7	4.81	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD09432	Sodium, Total	mg/L	0.00208	0.0880	5.00	5.04	4.99	4.91	4.25 to 5.75	101	70.0 to 130	0.997	20.0
BD09432	Sulfate	mg/L	-0.122	2.0	20.0	19.9	19.7	19.6	18.0 to 22.0	99.5	80.0 to 120	1.01	20.0
BD09430	Thallium, Dissolved	mg/L	-0.0000392	0.000147	0.100	0.103	0.107	0.101	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BD09432	Thallium, Total	mg/L	-0.0000383	0.000147	0.100	0.106	0.105	0.104	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD09431	Total Organic Carbon	mg/L	0.0680	1.00	10.0	9.15	8.92	9.77		91.5	80.0 to 120	2.55	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 08:56

**Customer ID:**

**Delivery Date:** 5/18/23 11:07

**Description:** Greene County Ash Pond - MW-64HO

**Laboratory ID Number:** BD09428

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09430	Alkalinity	mg CaCO3/L					115	51.7	45.0 to 55.0			0.873	10.0
BD09432	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.88	-0.006	1.92	1.80 to 2.20	94.0	90.0 to 110	0.00	15.0
BD09430	Solids, Dissolved	mg/L	1.00	25.0			262	55.0	40.0 to 60.0			1.54	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-46HO

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 10:08  
**Customer ID:**  
**Submittal Date:** 5/18/23 11:07

**Laboratory ID Number:** BD09429

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/19/23 11:37	5/22/23 14:55		1.015	0.321	mg/L	0.030000	0.1015	
* Calcium, Total	5/19/23 11:37	5/24/23 12:44		10.15	50.2	mg/L	0.70035	4.06	
* Iron, Total	5/19/23 11:37	5/22/23 14:55		1.015	0.0320	mg/L	0.008120	0.0406	J
* Lithium, Total	5/19/23 11:37	5/22/23 14:55		1.015	0.108	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/19/23 11:37	5/22/23 14:55		1.015	16.1	mg/L	0.021315	0.406	
* Molybdenum, Total	5/19/23 11:37	5/22/23 14:55		1.015	0.0651	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 14:55		1	4.09	mg/L			
* Silicon, Total	5/19/23 11:37	5/22/23 14:55		1.015	1.91	mg/L	0.02030	0.25375	
* Sodium, Total	5/19/23 11:37	5/22/23 14:55		1.015	14.1	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	5/19/23 08:52	5/19/23 12:17		1.015	0.311	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/19/23 08:52	5/19/23 15:17		10.15	54.3	mg/L	0.70035	4.06	
* Iron, Dissolved	5/19/23 08:52	5/19/23 12:17		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/19/23 08:52	5/19/23 12:17		1.015	0.106	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/19/23 08:52	5/19/23 12:17		1.015	15.9	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	5/19/23 08:52	5/19/23 12:17		1.015	0.0643	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	5/19/23 08:52	5/19/23 12:17		1	4.02	mg/L			
* Silicon, Dissolved	5/19/23 08:52	5/19/23 12:17		1.015	1.88	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/19/23 08:52	5/19/23 12:17		1.015	14.0	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/19/23 11:37	5/19/23 18:08		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/19/23 11:37	5/19/23 18:08		1.015	0.0321	mg/L	0.009135	0.05075	J
* Arsenic, Total	5/19/23 11:37	5/19/23 18:08		1.015	0.000287	mg/L	0.000112	0.000203	
* Barium, Total	5/19/23 11:37	5/19/23 18:08		1.015	0.0578	mg/L	0.000508	0.001015	
* Beryllium, Total	5/19/23 11:37	5/19/23 18:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/19/23 11:37	5/19/23 18:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/19/23 11:37	5/19/23 18:08		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/19/23 11:37	5/19/23 18:08		1.015	0.00276	mg/L	0.000068	0.000203	
* Lead, Total	5/19/23 11:37	5/19/23 18:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/19/23 11:37	5/19/23 18:33		5.075	3.14	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-46HO

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 10:08  
**Customer ID:**  
**Submittal Date:** 5/18/23 11:07

**Laboratory ID Number:** BD09429

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/19/23 11:37	5/19/23 18:08		1.015	5.15	mg/L	0.169505	0.5075	
* Selenium, Total	5/19/23 11:37	5/19/23 18:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/19/23 11:37	5/19/23 18:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/19/23 08:52	5/19/23 10:23		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/19/23 08:52	5/19/23 10:23		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/19/23 08:52	5/19/23 10:23		1.015	0.000196	mg/L	0.000112	0.000203	J
* Barium, Dissolved	5/19/23 08:52	5/19/23 10:23		1.015	0.0538	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/19/23 08:52	5/19/23 10:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/19/23 08:52	5/19/23 10:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/19/23 08:52	5/19/23 10:23		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	5/19/23 08:52	5/19/23 10:23		1.015	0.00297	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/19/23 08:52	5/19/23 10:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/19/23 08:52	5/19/23 11:09		5.075	2.90	mg/L	0.000761	0.005075	
* Potassium, Dissolved	5/19/23 08:52	5/19/23 10:23		1.015	5.40	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/19/23 08:52	5/19/23 10:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/19/23 08:52	5/19/23 10:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/24/23 14:22	5/24/23 19:48		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	5/19/23 13:30	5/19/23 13:30		1	0.715	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/30/23 13:30	5/30/23 14:01		1	115	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/19/23 10:40	5/23/23 10:40		1	257	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/30/23 13:30	5/30/23 14:01		1	115	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/30/23 13:30	5/30/23 14:01		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 17:58	5/22/23 17:58		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-46HO

**Location Code:** WMWGREAP

**Collected:** 5/17/23 10:08

**Customer ID:**

**Submittal Date:** 5/18/23 11:07

**Laboratory ID Number:** BD09429

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 11:38	5/24/23 11:38		1	5.62	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:00	5/25/23 10:00		1	0.181	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 15:25	5/18/23 15:25		4	93.0	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/17/23 10:05	5/17/23 10:05			393.88	uS/cm			FA
pH	5/17/23 10:05	5/17/23 10:05			6.70	SU			FA
Temperature	5/17/23 10:05	5/17/23 10:05			19.15	C			FA
Turbidity	5/17/23 10:05	5/17/23 10:05			5.89	NTU			FA
Sulfide	5/17/23 10:05	5/17/23 10:05			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 10:08

**Customer ID:**

**Delivery Date:** 5/18/23 11:07

**Description:** Greene County Ash Pond - MW-46HO

**Laboratory ID Number:** BD09429

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09430	Aluminum, Dissolved	mg/L	-0.000625	0.0198	0.100	0.0991	0.102	0.101	0.0850 to 0.115	99.1	70.0 to 130	2.88	20.0
BD09432	Aluminum, Total	mg/L	0.000659	0.0198	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD09430	Antimony, Dissolved	mg/L	0.000368	0.00100	0.100	0.0912	0.0935	0.0938	0.0850 to 0.115	91.2	70.0 to 130	2.49	20.0
BD09432	Antimony, Total	mg/L	0.000464	0.00100	0.100	0.0995	0.0988	0.102	0.0850 to 0.115	99.5	70.0 to 130	0.706	20.0
BD09430	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.103	0.106	0.102	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BD09432	Arsenic, Total	mg/L	0.0000592	0.000200	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD09430	Barium, Dissolved	mg/L	0.0000312	0.00100	0.100	0.151	0.155	0.101	0.0850 to 0.115	98.2	70.0 to 130	2.61	20.0
BD09432	Barium, Total	mg/L	0.0000224	0.00100	0.100	0.110	0.110	0.112	0.0850 to 0.115	110	70.0 to 130	0.00	20.0
BD09430	Beryllium, Dissolved	mg/L	0.0000492	0.000880	0.100	0.102	0.104	0.106	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD09432	Beryllium, Total	mg/L	0.0000283	0.000880	0.100	0.100	0.105	0.100	0.0850 to 0.115	100	70.0 to 130	4.88	20.0
BD09430	Boron, Dissolved	mg/L	-0.00192	0.0650	1.00	1.33	1.33	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD09432	Boron, Total	mg/L	0.000134	0.0650	1.00	1.04	1.04	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09430	Cadmium, Dissolved	mg/L	0.0000180	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD09432	Cadmium, Total	mg/L	0.0000114	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09430	Calcium, Dissolved	mg/L	-0.0167	0.152	5.00	51.5	53.2	4.98	4.25 to 5.75	34.0	70.0 to 130	3.25	20.0
BD09432	Calcium, Total	mg/L	-0.00154	0.152	5.00	5.20	5.13	5.24	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BD09432	Chloride	mg/L	0.00651	1.00	10.0	10.0	9.88	9.89	9.00 to 11.0	100	80.0 to 120	1.21	20.0
BD09430	Chromium, Dissolved	mg/L	-0.0000125	0.000440	0.100	0.0994	0.103	0.0998	0.0850 to 0.115	99.2	70.0 to 130	3.56	20.0
BD09432	Chromium, Total	mg/L	-0.0000041	0.000440	0.100	0.103	0.101	0.101	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD09430	Cobalt, Dissolved	mg/L	-0.0000283	0.000147	0.100	0.102	0.105	0.102	0.0850 to 0.115	99.3	70.0 to 130	2.90	20.0
BD09432	Cobalt, Total	mg/L	-0.0000409	0.000147	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09432	Fluoride	mg/L	0.0391	0.125	2.50	2.58	2.67	2.59	2.25 to 2.75	103	80.0 to 120	3.43	20.0
BD09430	Iron, Dissolved	mg/L	-0.000514	0.0176	0.2	0.204	0.202	0.202	0.170 to 0.230	102	70.0 to 130	0.985	20.0
BD09432	Iron, Total	mg/L	0.000380	0.0176	0.2	0.206	0.204	0.209	0.170 to 0.230	103	70.0 to 130	0.976	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 10:08

**Customer ID:**

**Delivery Date:** 5/18/23 11:07

**Description:** Greene County Ash Pond - MW-46HO

**Laboratory ID Number:** BD09429

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD09430	Lead, Dissolved	mg/L	0.0000100	0.000147	0.100	0.105	0.108	0.103	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BD09432	Lead, Total	mg/L	0.0000088	0.000147	0.100	0.106	0.105	0.103	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD09430	Lithium, Dissolved	mg/L	0.00104	0.0154	0.200	0.301	0.303	0.196	0.170 to 0.230	97.5	70.0 to 130	0.662	20.0
BD09432	Lithium, Total	mg/L	0.000826	0.0154	0.200	0.205	0.205	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD09430	Magnesium, Dissolved	mg/L	0.00549	0.0462	5.00	20.8	20.9	4.83	4.25 to 5.75	96.0	70.0 to 130	0.480	20.0
BD09432	Magnesium, Total	mg/L	-0.00218	0.0462	5.00	5.10	5.05	5.01	4.25 to 5.75	101	70.0 to 130	0.985	20.0
BD09430	Manganese, Dissolved	mg/L	0.0000105	0.00033	0.100	3.07	2.98	0.102	0.0850 to 0.115	200	70.0 to 130	2.98	20.0
BD09432	Manganese, Total	mg/L	0.000105	0.00033	0.100	0.106	0.103	0.103	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD09432	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00393	0.00392	0.0039	0.00340 to 0.00460	98.2	70.0 to 130	0.255	20.0
BD09430	Molybdenum, Dissolved	mg/L	0.00202	0.0100	0.2	0.265	0.263	0.198	0.170 to 0.230	99.6	70.0 to 130	0.758	20.0
BD09432	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.201	0.202	0.202	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09430	Potassium, Dissolved	mg/L	0.00333	0.367	10.0	14.8	15.1	9.81	8.50 to 11.5	96.7	70.0 to 130	2.01	20.0
BD09432	Potassium, Total	mg/L	0.00933	0.367	10.0	10.3	10.2	9.96	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BD09430	Selenium, Dissolved	mg/L	0.000136	0.00100	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD09432	Selenium, Total	mg/L	0.000143	0.00100	0.100	0.101	0.0993	0.101	0.0850 to 0.115	101	70.0 to 130	1.70	20.0
BD09430	Silicon, Dissolved	mg/L	0.000898	0.0440	1.00	2.91	2.89	1.02	0.850 to 1.15	104	70.0 to 130	0.690	20.0
BD09432	Silicon, Total	mg/L	0.000455	0.0440	1.00	1.03	1.03	1.03	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD09430	Sodium, Dissolved	mg/L	0.00643	0.0880	5.00	18.7	18.7	4.81	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD09432	Sodium, Total	mg/L	0.00208	0.0880	5.00	5.04	4.99	4.91	4.25 to 5.75	101	70.0 to 130	0.997	20.0
BD09432	Sulfate	mg/L	-0.122	2.0	20.0	19.9	19.7	19.6	18.0 to 22.0	99.5	80.0 to 120	1.01	20.0
BD09430	Thallium, Dissolved	mg/L	-0.0000392	0.000147	0.100	0.103	0.107	0.101	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BD09432	Thallium, Total	mg/L	-0.0000383	0.000147	0.100	0.106	0.105	0.104	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD09431	Total Organic Carbon	mg/L	0.0680	1.00	10.0	9.15	8.92	9.77		91.5	80.0 to 120	2.55	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 10:08

**Customer ID:**

**Delivery Date:** 5/18/23 11:07

**Description:** Greene County Ash Pond - MW-46HO

**Laboratory ID Number:** BD09429

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BD09430	Alkalinity	mg CaCO3/L					115	51.7	45.0 to 55.0			0.873	10.0
BD09432	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.88	-0.006	1.92	1.80 to 2.20	94.0	90.0 to 110	0.00	15.0
BD09430	Solids, Dissolved	mg/L	1.00	25.0			262	55.0	40.0 to 60.0			1.54	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-46HO Dup

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 10:08  
**Customer ID:**  
**Submittal Date:** 5/18/23 11:07

**Laboratory ID Number:** BD09430

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	5/19/23 11:37	5/22/23 14:58		1.015	0.319	mg/L	0.030000	0.1015		
* Calcium, Total	5/19/23 11:37	5/24/23 12:47		10.15	52.4	mg/L	0.70035	4.06		
* Iron, Total	5/19/23 11:37	5/22/23 14:58		1.015	0.0291	mg/L	0.008120	0.0406	J	
* Lithium, Total	5/19/23 11:37	5/22/23 14:58		1.015	0.110	mg/L	0.007105	0.01999956		
* Magnesium, Total	5/19/23 11:37	5/22/23 14:58		1.015	16.3	mg/L	0.021315	0.406		
* Molybdenum, Total	5/19/23 11:37	5/22/23 14:58		1.015	0.0646	mg/L	0.005075	0.01015		
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 14:58		1	4.07	mg/L				
* Silicon, Total	5/19/23 11:37	5/22/23 14:58		1.015	1.90	mg/L	0.02030	0.25375		
* Sodium, Total	5/19/23 11:37	5/22/23 14:58		1.015	14.3	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	5/19/23 08:52	5/19/23 12:20		1.015	0.310	mg/L	0.030000	0.1015		
* Calcium, Dissolved	5/19/23 08:52	5/19/23 15:20		10.15	49.8	mg/L	0.70035	4.06	RA	
* Iron, Dissolved	5/19/23 08:52	5/19/23 12:20		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	5/19/23 08:52	5/19/23 12:20		1.015	0.106	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	5/19/23 08:52	5/19/23 12:20		1.015	16.0	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	5/19/23 08:52	5/19/23 12:20		1.015	0.0657	mg/L	0.005075	0.01015		
* Silica, Dissolved (calc.)	5/19/23 08:52	5/19/23 12:20		1	4.00	mg/L				
* Silicon, Dissolved	5/19/23 08:52	5/19/23 12:20		1.015	1.87	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/19/23 08:52	5/19/23 12:20		1.015	13.8	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	5/19/23 11:37	5/19/23 18:12		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	5/19/23 11:37	5/19/23 18:12		1.015	0.0338	mg/L	0.009135	0.05075	J	
* Arsenic, Total	5/19/23 11:37	5/19/23 18:12		1.015	0.000274	mg/L	0.000112	0.000203		
* Barium, Total	5/19/23 11:37	5/19/23 18:12		1.015	0.0589	mg/L	0.000508	0.001015		
* Beryllium, Total	5/19/23 11:37	5/19/23 18:12		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	5/19/23 11:37	5/19/23 18:12		1.015	0.0000749	mg/L	0.000068	0.000203	J	
* Chromium, Total	5/19/23 11:37	5/19/23 18:12		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	5/19/23 11:37	5/19/23 18:12		1.015	0.00273	mg/L	0.000068	0.000203		
* Lead, Total	5/19/23 11:37	5/19/23 18:12		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	5/19/23 11:37	5/19/23 18:37		5.075	3.06	mg/L	0.000761	0.005075		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-46HO Dup

**Location Code:** WMWGREAP  
**Collected:** 5/17/23 10:08  
**Customer ID:**  
**Submittal Date:** 5/18/23 11:07

**Laboratory ID Number:** BD09430

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	5/19/23 11:37	5/19/23 18:12		1.015	5.23	mg/L	0.169505	0.5075	
* Selenium, Total	5/19/23 11:37	5/19/23 18:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/19/23 11:37	5/19/23 18:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	5/19/23 08:52	5/19/23 10:26		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	5/19/23 08:52	5/19/23 10:26		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	5/19/23 08:52	5/19/23 10:26		1.015	0.000212	mg/L	0.000112	0.000203	
* Barium, Dissolved	5/19/23 08:52	5/19/23 10:26		1.015	0.0528	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/19/23 08:52	5/19/23 10:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/19/23 08:52	5/19/23 10:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/19/23 08:52	5/19/23 10:26		1.015	0.000215	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/19/23 08:52	5/19/23 10:26		1.015	0.00272	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/19/23 08:52	5/19/23 10:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/19/23 08:52	5/19/23 11:12		5.075	2.87	mg/L	0.000761	0.005075	RA
* Potassium, Dissolved	5/19/23 08:52	5/19/23 10:26		1.015	5.13	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/19/23 08:52	5/19/23 10:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/19/23 08:52	5/19/23 10:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/24/23 14:22	5/24/23 19:52		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	5/19/23 13:31	5/19/23 13:31		1	0.556	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: DHC</b>							
* Alkalinity	5/30/23 13:30	5/30/23 14:01		1	114	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/19/23 10:40	5/23/23 10:40		1	258	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: DHC</b>							
* Bicarbonate Alkalinity, (calc.)	5/30/23 13:30	5/30/23 14:01		1	114	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	5/30/23 13:30	5/30/23 14:01		1	Not Detected	mg CaCO3/L		0.5	
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 18:16	5/22/23 18:16		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-46HO Dup

**Location Code:** WMWGREAP

**Collected:** 5/17/23 10:08

**Customer ID:**

**Submittal Date:** 5/18/23 11:07

**Laboratory ID Number:** BD09430

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 11:39	5/24/23 11:39		1	5.59	mg/L	0.50	1	
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:01	5/25/23 10:01		1	0.177	mg/L	0.06	0.125	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 15:27	5/18/23 15:27		4	89.9	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	5/17/23 10:05	5/17/23 10:05			393.88	uS/cm			FA
pH	5/17/23 10:05	5/17/23 10:05			6.70	SU			FA
Temperature	5/17/23 10:05	5/17/23 10:05			19.15	C			FA
Turbidity	5/17/23 10:05	5/17/23 10:05			5.89	NTU			FA
Sulfide	5/17/23 10:05	5/17/23 10:05			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 5/17/23 10:08  
**Customer ID:**  
**Delivery Date:** 5/18/23 11:07

**Description:** Greene County Ash Pond - MW-46HO Dup

**Laboratory ID Number:** BD09430

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09430	Aluminum, Dissolved	mg/L	-0.000625	0.0198	0.100	0.0991	0.102	0.101	0.0850 to 0.115	99.1	70.0 to 130	2.88	20.0
BD09432	Aluminum, Total	mg/L	0.000659	0.0198	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD09430	Antimony, Dissolved	mg/L	0.000368	0.00100	0.100	0.0912	0.0935	0.0938	0.0850 to 0.115	91.2	70.0 to 130	2.49	20.0
BD09432	Antimony, Total	mg/L	0.000464	0.00100	0.100	0.0995	0.0988	0.102	0.0850 to 0.115	99.5	70.0 to 130	0.706	20.0
BD09430	Arsenic, Dissolved	mg/L	0.0000143	0.000200	0.100	0.103	0.106	0.102	0.0850 to 0.115	103	70.0 to 130	2.87	20.0
BD09432	Arsenic, Total	mg/L	0.0000592	0.000200	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD09430	Barium, Dissolved	mg/L	0.0000312	0.00100	0.100	0.151	0.155	0.101	0.0850 to 0.115	98.2	70.0 to 130	2.61	20.0
BD09432	Barium, Total	mg/L	0.0000224	0.00100	0.100	0.110	0.110	0.112	0.0850 to 0.115	110	70.0 to 130	0.00	20.0
BD09430	Beryllium, Dissolved	mg/L	0.0000492	0.000880	0.100	0.102	0.104	0.106	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD09432	Beryllium, Total	mg/L	0.0000283	0.000880	0.100	0.100	0.105	0.100	0.0850 to 0.115	100	70.0 to 130	4.88	20.0
BD09430	Boron, Dissolved	mg/L	-0.00192	0.0650	1.00	1.33	1.33	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD09432	Boron, Total	mg/L	0.000134	0.0650	1.00	1.04	1.04	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09430	Cadmium, Dissolved	mg/L	0.0000180	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD09432	Cadmium, Total	mg/L	0.0000114	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09430	Calcium, Dissolved	mg/L	-0.0167	0.152	5.00	51.5	53.2	4.98	4.25 to 5.75	34.0	70.0 to 130	3.25	20.0
BD09432	Calcium, Total	mg/L	-0.00154	0.152	5.00	5.20	5.13	5.24	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BD09432	Chloride	mg/L	0.00651	1.00	10.0	10.0	9.88	9.89	9.00 to 11.0	100	80.0 to 120	1.21	20.0
BD09430	Chromium, Dissolved	mg/L	-0.0000125	0.000440	0.100	0.0994	0.103	0.0998	0.0850 to 0.115	99.2	70.0 to 130	3.56	20.0
BD09432	Chromium, Total	mg/L	-0.0000041	0.000440	0.100	0.103	0.101	0.101	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD09430	Cobalt, Dissolved	mg/L	-0.0000283	0.000147	0.100	0.102	0.105	0.102	0.0850 to 0.115	99.3	70.0 to 130	2.90	20.0
BD09432	Cobalt, Total	mg/L	-0.0000409	0.000147	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09432	Fluoride	mg/L	0.0391	0.125	2.50	2.58	2.67	2.59	2.25 to 2.75	103	80.0 to 120	3.43	20.0
BD09430	Iron, Dissolved	mg/L	-0.000514	0.0176	0.2	0.204	0.202	0.202	0.170 to 0.230	102	70.0 to 130	0.985	20.0
BD09432	Iron, Total	mg/L	0.000380	0.0176	0.2	0.206	0.204	0.209	0.170 to 0.230	103	70.0 to 130	0.976	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 10:08

**Customer ID:**

**Delivery Date:** 5/18/23 11:07

**Description:** Greene County Ash Pond - MW-46HO Dup

**Laboratory ID Number:** BD09430

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09430	Lead, Dissolved	mg/L	0.0000100	0.000147	0.100	0.105	0.108	0.103	0.0850 to 0.115	105	70.0 to 130	2.82	20.0
BD09432	Lead, Total	mg/L	0.0000088	0.000147	0.100	0.106	0.105	0.103	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD09430	Lithium, Dissolved	mg/L	0.00104	0.0154	0.200	0.301	0.303	0.196	0.170 to 0.230	97.5	70.0 to 130	0.662	20.0
BD09432	Lithium, Total	mg/L	0.000826	0.0154	0.200	0.205	0.205	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD09430	Magnesium, Dissolved	mg/L	0.00549	0.0462	5.00	20.8	20.9	4.83	4.25 to 5.75	96.0	70.0 to 130	0.480	20.0
BD09432	Magnesium, Total	mg/L	-0.00218	0.0462	5.00	5.10	5.05	5.01	4.25 to 5.75	101	70.0 to 130	0.985	20.0
BD09430	Manganese, Dissolved	mg/L	0.0000105	0.00033	0.100	3.07	2.98	0.102	0.0850 to 0.115	200	70.0 to 130	2.98	20.0
BD09432	Manganese, Total	mg/L	0.000105	0.00033	0.100	0.106	0.103	0.103	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD09432	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00393	0.00392	0.0039	0.00340 to 0.00460	98.2	70.0 to 130	0.255	20.0
BD09430	Molybdenum, Dissolved	mg/L	0.00202	0.0100	0.2	0.265	0.263	0.198	0.170 to 0.230	99.6	70.0 to 130	0.758	20.0
BD09432	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.201	0.202	0.202	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09430	Potassium, Dissolved	mg/L	0.00333	0.367	10.0	14.8	15.1	9.81	8.50 to 11.5	96.7	70.0 to 130	2.01	20.0
BD09432	Potassium, Total	mg/L	0.00933	0.367	10.0	10.3	10.2	9.96	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BD09430	Selenium, Dissolved	mg/L	0.000136	0.00100	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BD09432	Selenium, Total	mg/L	0.000143	0.00100	0.100	0.101	0.0993	0.101	0.0850 to 0.115	101	70.0 to 130	1.70	20.0
BD09430	Silicon, Dissolved	mg/L	0.000898	0.0440	1.00	2.91	2.89	1.02	0.850 to 1.15	104	70.0 to 130	0.690	20.0
BD09432	Silicon, Total	mg/L	0.000455	0.0440	1.00	1.03	1.03	1.03	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD09430	Sodium, Dissolved	mg/L	0.00643	0.0880	5.00	18.7	18.7	4.81	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD09432	Sodium, Total	mg/L	0.00208	0.0880	5.00	5.04	4.99	4.91	4.25 to 5.75	101	70.0 to 130	0.997	20.0
BD09432	Sulfate	mg/L	-0.122	2.0	20.0	19.9	19.7	19.6	18.0 to 22.0	99.5	80.0 to 120	1.01	20.0
BD09430	Thallium, Dissolved	mg/L	-0.0000392	0.000147	0.100	0.103	0.107	0.101	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BD09432	Thallium, Total	mg/L	-0.0000383	0.000147	0.100	0.106	0.105	0.104	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD09431	Total Organic Carbon	mg/L	0.0680	1.00	10.0	9.15	8.92	9.77		91.5	80.0 to 120	2.55	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 5/17/23 10:08

**Customer ID:**

**Delivery Date:** 5/18/23 11:07

**Description:** Greene County Ash Pond - MW-46HO Dup

**Laboratory ID Number:** BD09430

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BD09430	Alkalinity	mg CaCO3/L					115	51.7	45.0 to 55.0			0.873	10.0
BD09432	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.88	-0.006	1.92	1.80 to 2.20	94.0	90.0 to 110	0.00	15.0
BD09430	Solids, Dissolved	mg/L	1.00	25.0			262	55.0	40.0 to 60.0			1.54	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-1

**Location Code:** WMWGREAPFB  
**Collected:** 5/17/23 10:35  
**Customer ID:**  
**Submittal Date:** 5/18/23 11:07

**Laboratory ID Number:** BD09431

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/19/23 11:37	5/22/23 15:01		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/19/23 11:37	5/22/23 15:01		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	5/19/23 11:37	5/22/23 15:01		1.015	0.0108	mg/L	0.008120	0.0406	J
* Lithium, Total	5/19/23 11:37	5/22/23 15:01		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/19/23 11:37	5/22/23 15:01		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	5/19/23 11:37	5/22/23 15:01		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 15:01		1	Not Detected	mg/L			
* Silicon, Total	5/19/23 11:37	5/22/23 15:01		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	5/19/23 11:37	5/22/23 15:01		1.015	Not Detected	mg/L	0.04060	0.406	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/19/23 11:37	5/19/23 18:15		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/19/23 11:37	5/19/23 18:15		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/19/23 11:37	5/19/23 18:15		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	5/19/23 11:37	5/19/23 18:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	5/19/23 11:37	5/19/23 18:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/19/23 11:37	5/19/23 18:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/19/23 11:37	5/19/23 18:15		1.015	0.000269	mg/L	0.000203	0.001015	J
* Cobalt, Total	5/19/23 11:37	5/19/23 18:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/19/23 11:37	5/19/23 18:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/19/23 11:37	5/19/23 18:15		1.015	0.000390	mg/L	0.000152	0.001015	J
* Potassium, Total	5/19/23 11:37	5/19/23 18:15		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	5/19/23 11:37	5/19/23 18:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/19/23 11:37	5/19/23 18:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ELH</b>							
* Mercury, Total by CVAA	5/24/23 14:22	5/24/23 19:56		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	5/19/23 13:32	5/19/23 13:32		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	5/19/23 10:40	5/23/23 10:40		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-1

**Location Code:** WMWGREAPFB  
**Collected:** 5/17/23 10:35  
**Customer ID:**  
**Submittal Date:** 5/18/23 11:07

**Laboratory ID Number:** BD09431

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 18:42	5/22/23 18:42		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 11:41	5/24/23 11:41		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:02	5/25/23 10:02		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 15:19	5/18/23 15:19		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/17/23 10:35

**Customer ID:**

**Delivery Date:** 5/18/23 11:07

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD09431

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09432	Aluminum, Total	mg/L	0.000659	0.0198	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD09432	Antimony, Total	mg/L	0.000464	0.00100	0.100	0.0995	0.0988	0.102	0.0850 to 0.115	99.5	70.0 to 130	0.706	20.0
BD09432	Arsenic, Total	mg/L	0.0000592	0.000200	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD09432	Barium, Total	mg/L	0.0000224	0.00100	0.100	0.110	0.110	0.112	0.0850 to 0.115	110	70.0 to 130	0.00	20.0
BD09432	Beryllium, Total	mg/L	0.0000283	0.000880	0.100	0.100	0.105	0.100	0.0850 to 0.115	100	70.0 to 130	4.88	20.0
BD09432	Boron, Total	mg/L	0.000134	0.0650	1.00	1.04	1.04	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09432	Cadmium, Total	mg/L	0.0000114	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09432	Calcium, Total	mg/L	-0.00154	0.152	5.00	5.20	5.13	5.24	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BD09432	Chloride	mg/L	0.00651	1.00	10.0	10.0	9.88	9.89	9.00 to 11.0	100	80.0 to 120	1.21	20.0
BD09432	Chromium, Total	mg/L	-0.0000041	0.000440	0.100	0.103	0.101	0.101	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD09432	Cobalt, Total	mg/L	-0.0000409	0.000147	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09432	Fluoride	mg/L	0.0391	0.125	2.50	2.58	2.67	2.59	2.25 to 2.75	103	80.0 to 120	3.43	20.0
BD09432	Iron, Total	mg/L	0.000380	0.0176	0.2	0.206	0.204	0.209	0.170 to 0.230	103	70.0 to 130	0.976	20.0
BD09432	Lead, Total	mg/L	0.0000088	0.000147	0.100	0.106	0.105	0.103	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD09432	Lithium, Total	mg/L	0.000826	0.0154	0.200	0.205	0.205	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD09432	Magnesium, Total	mg/L	-0.00218	0.0462	5.00	5.10	5.05	5.01	4.25 to 5.75	101	70.0 to 130	0.985	20.0
BD09432	Manganese, Total	mg/L	0.000105	0.00033	0.100	0.106	0.103	0.103	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD09432	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00393	0.00392	0.0039	0.00340 to 0.00460	98.2	70.0 to 130	0.255	20.0
BD09432	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.201	0.202	0.202	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09432	Potassium, Total	mg/L	0.00933	0.367	10.0	10.3	10.2	9.96	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BD09432	Selenium, Total	mg/L	0.000143	0.00100	0.100	0.101	0.0993	0.101	0.0850 to 0.115	101	70.0 to 130	1.70	20.0
BD09432	Silicon, Total	mg/L	0.000455	0.0440	1.00	1.03	1.03	1.03	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD09432	Sodium, Total	mg/L	0.00208	0.0880	5.00	5.04	4.99	4.91	4.25 to 5.75	101	70.0 to 130	0.997	20.0
BD09432	Sulfate	mg/L	-0.122	2.0	20.0	19.9	19.7	19.6	18.0 to 22.0	99.5	80.0 to 120	1.01	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/17/23 10:35

**Customer ID:**

**Delivery Date:** 5/18/23 11:07

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD09431

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD09432	Thallium, Total	mg/L	-0.0000383	0.000147	0.100	0.106	0.105	0.104	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD09431	Total Organic Carbon	mg/L	0.0680	1.00	10.0	9.15	8.92	9.77		91.5	80.0 to 120	2.55	20.0

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**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 5/17/23 10:35

**Customer ID:**

**Delivery Date:** 5/18/23 11:07

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD09431

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09432	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.88	-0.006	1.92	1.80 to 2.20	94.0	90.0 to 110	0.00	15.0
BD09430	Solids, Dissolved	mg/L	1.00	25.0			262	55.0	40.0 to 60.0			1.54	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Equipment Blank-1

**Location Code:** WMWGREAPEB  
**Collected:** 5/17/23 10:40  
**Customer ID:**  
**Submittal Date:** 5/18/23 11:07

**Laboratory ID Number:** BD09432

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	5/19/23 11:37	5/22/23 15:05		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/19/23 11:37	5/22/23 15:05		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	5/19/23 11:37	5/22/23 15:05		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	5/19/23 11:37	5/22/23 15:05		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/19/23 11:37	5/22/23 15:05		1.015	0.0257	mg/L	0.021315	0.406	J
* Molybdenum, Total	5/19/23 11:37	5/22/23 15:05		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	5/19/23 11:37	5/22/23 15:05		1	Not Detected	mg/L			
* Silicon, Total	5/19/23 11:37	5/22/23 15:05		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	5/19/23 11:37	5/22/23 15:05		1.015	Not Detected	mg/L	0.04060	0.406	U
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	5/19/23 11:37	5/19/23 18:19		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	5/19/23 11:37	5/19/23 18:19		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	5/19/23 11:37	5/19/23 18:19		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	5/19/23 11:37	5/19/23 18:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	5/19/23 11:37	5/19/23 18:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	5/19/23 11:37	5/19/23 18:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	5/19/23 11:37	5/19/23 18:19		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	5/19/23 11:37	5/19/23 18:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	5/19/23 11:37	5/19/23 18:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	5/19/23 11:37	5/19/23 18:19		1.015	0.000290	mg/L	0.000152	0.001015	J
* Potassium, Total	5/19/23 11:37	5/19/23 18:19		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	5/19/23 11:37	5/19/23 18:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	5/19/23 11:37	5/19/23 18:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>			<b>Analyst: ELH</b>						
* Mercury, Total by CVAA	5/24/23 14:22	5/24/23 20:00		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 353.2</b>			<b>Analyst: CES</b>						
* Nitrogen, Nitrate/Nitrite	5/19/23 13:32	5/19/23 13:32		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2540C</b>			<b>Analyst: CNJ</b>						
* Solids, Dissolved	5/19/23 10:40	5/23/23 10:40		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Equipment Blank-1

**Location Code:** WMWGREAPEB  
**Collected:** 5/17/23 10:40  
**Customer ID:**  
**Submittal Date:** 5/18/23 11:07

**Laboratory ID Number:** BD09432

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: SC</b>							
* Total Organic Carbon	5/22/23 18:30	5/22/23 18:30		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	5/24/23 11:42	5/24/23 11:42		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500F G 2017</b>		<b>Analyst: JCC</b>							
* Fluoride	5/25/23 10:03	5/25/23 10:03		1	Not Detected	mg/L	0.06	0.125	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	5/18/23 15:20	5/18/23 15:20		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPEB

**Sample Date:** 5/17/23 10:40

**Customer ID:**

**Delivery Date:** 5/18/23 11:07

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD09432

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD09432	Aluminum, Total	mg/L	0.000659	0.0198	0.100	0.104	0.102	0.103	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BD09432	Antimony, Total	mg/L	0.000464	0.00100	0.100	0.0995	0.0988	0.102	0.0850 to 0.115	99.5	70.0 to 130	0.706	20.0
BD09432	Arsenic, Total	mg/L	0.0000592	0.000200	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD09432	Barium, Total	mg/L	0.0000224	0.00100	0.100	0.110	0.110	0.112	0.0850 to 0.115	110	70.0 to 130	0.00	20.0
BD09432	Beryllium, Total	mg/L	0.0000283	0.000880	0.100	0.100	0.105	0.100	0.0850 to 0.115	100	70.0 to 130	4.88	20.0
BD09432	Boron, Total	mg/L	0.000134	0.0650	1.00	1.04	1.04	1.04	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD09432	Cadmium, Total	mg/L	0.0000114	0.000147	0.100	0.105	0.105	0.106	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BD09432	Calcium, Total	mg/L	-0.00154	0.152	5.00	5.20	5.13	5.24	4.25 to 5.75	104	70.0 to 130	1.36	20.0
BD09432	Chloride	mg/L	0.00651	1.00	10.0	10.0	9.88	9.89	9.00 to 11.0	100	80.0 to 120	1.21	20.0
BD09432	Chromium, Total	mg/L	-0.0000041	0.000440	0.100	0.103	0.101	0.101	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD09432	Cobalt, Total	mg/L	-0.0000409	0.000147	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD09432	Fluoride	mg/L	0.0391	0.125	2.50	2.58	2.67	2.59	2.25 to 2.75	103	80.0 to 120	3.43	20.0
BD09432	Iron, Total	mg/L	0.000380	0.0176	0.2	0.206	0.204	0.209	0.170 to 0.230	103	70.0 to 130	0.976	20.0
BD09432	Lead, Total	mg/L	0.0000088	0.000147	0.100	0.106	0.105	0.103	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD09432	Lithium, Total	mg/L	0.000826	0.0154	0.200	0.205	0.205	0.200	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD09432	Magnesium, Total	mg/L	-0.00218	0.0462	5.00	5.10	5.05	5.01	4.25 to 5.75	101	70.0 to 130	0.985	20.0
BD09432	Manganese, Total	mg/L	0.000105	0.00033	0.100	0.106	0.103	0.103	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD09432	Mercury, Total by CVAA	mg/L	1.000E-05	0.000500	0.004	0.00393	0.00392	0.0039	0.00340 to 0.00460	98.2	70.0 to 130	0.255	20.0
BD09432	Molybdenum, Total	mg/L	0.002	0.0100	0.2	0.201	0.202	0.202	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BD09432	Potassium, Total	mg/L	0.00933	0.367	10.0	10.3	10.2	9.96	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BD09432	Selenium, Total	mg/L	0.000143	0.00100	0.100	0.101	0.0993	0.101	0.0850 to 0.115	101	70.0 to 130	1.70	20.0
BD09432	Silicon, Total	mg/L	0.000455	0.0440	1.00	1.03	1.03	1.03	0.850 to 1.15	103	70.0 to 130	0.00	20.0
BD09432	Sodium, Total	mg/L	0.00208	0.0880	5.00	5.04	4.99	4.91	4.25 to 5.75	101	70.0 to 130	0.997	20.0
BD09432	Sulfate	mg/L	-0.122	2.0	20.0	19.9	19.7	19.6	18.0 to 22.0	99.5	80.0 to 120	1.01	20.0

**Comments:**



# Batch QC Summary

**Customer Account:** WMWGREAPEB

**Sample Date:** 5/17/23 10:40

**Customer ID:**

**Delivery Date:** 5/18/23 11:07

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD09432

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD09432	Thallium, Total	mg/L	-0.0000383	0.000147	0.100	0.106	0.105	0.104	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BD09431	Total Organic Carbon	mg/L	0.0680	1.00	10.0	9.15	8.92	9.77		91.5	80.0 to 120	2.55	20.0

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**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPEB

**Sample Date:** 5/17/23 10:40

**Customer ID:**

**Delivery Date:** 5/18/23 11:07

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD09432

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD09432	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.88	-0.006	1.92	1.80 to 2.20	94.0	90.0 to 110	0.00	15.0
BD09430	Solids, Dissolved	mg/L	1.00	25.0			262	55.0	40.0 to 60.0			1.54	10.0

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**Comments:**

# Definitions

**Project Number:** WMWGREAP\_1412

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer	
	Collector		Dallas Gentry	Requested By
			Location	

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-64HO	05/17/2023	08:56	6	Groundwater		BD09428	<input checked="" type="checkbox"/>
MW-46HO	05/17/2023	10:08	6	Groundwater		BD09429	<input checked="" type="checkbox"/>
MW-46HO dup	05/17/2023	10:08	6	Sample Duplicate		BD09430	<input checked="" type="checkbox"/>
FB-1	05/17/2023	10:35	5	Field Blank		BD09431	<input checked="" type="checkbox"/>
EB-1	05/17/2023	10:40	5	Equipment Blank		BD09432	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>Melinda Gentry</i>	<i>Bushnell</i>	05/18/2023 10:09

SmarTroll ID	7586-41443-5-2	Cooler Temp	2.7 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1412	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Radium MS/MSD collected at MW-64HO

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-64HO	05/17/2023	08:56	3	Groundwater		BD09433	<input checked="" type="checkbox"/>
MW-46HO	05/17/2023	10:08	1	Groundwater		BD09434	<input checked="" type="checkbox"/>
MW-46HO dup	05/17/2023	10:08	1	Sample Duplicate		BD09435	<input checked="" type="checkbox"/>
FB-1	05/17/2023	10:35	1	Field Blank		BD09436	<input checked="" type="checkbox"/>
EB-1	05/17/2023	10:40	1	Equipment Blank		BD09437	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Burke Cotton</i>	05/18/2023 10:09

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1412	pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



July 10, 2023

Brooke Caton  
Alabama Power  
744 Highway 87  
Calera, AL 35040

RE: Project: WMWGREAP\_1410  
Pace Project No.: 30594925

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on June 09, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Skyler C. Richmond  
skyler.richmond@pacelabs.com  
(724)850-5600  
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power  
Renee Jernigan, Alabama Power



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: WMWGREAP\_1410  
Pace Project No.: 30594925

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### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
ANABISO/IEC 17025:2017 Rad Cert#: L24170  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 2950  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA010  
Louisiana DEQ/TNI Certification #: 04086  
Maine Certification #: 2023021  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572023-03  
New Hampshire/TNI Certification #: 297622  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-015  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: TN02867  
Texas/TNI Certification #: T104704188-22-18  
Utah/TNI Certification #: PA014572223-14  
USDA Soil Permit #: 525-23-67-77263  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: WMWGREAP\_1410  
Pace Project No.: 30594925

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30594925001	BD09416 MW-44H	Water	05/16/23 08:28	06/09/23 10:20
30594925002	BD09417 MW-1	Water	05/16/23 08:19	06/09/23 10:20
30594925003	BD09418 MW-11	Water	05/17/23 13:35	06/09/23 10:20
30594925004	BD09419 MW-23	Water	05/16/23 08:38	06/09/23 10:20
30594925005	BD09420 MW-24	Water	05/16/23 11:05	06/09/23 10:20
30594925006	BD09421 PZ-4	Water	05/17/23 08:53	06/09/23 10:20
30594925007	BD09422 MW-2	Water	05/17/23 10:03	06/09/23 10:20
30594925008	BD09423 MW-5	Water	05/17/23 11:00	06/09/23 10:20
30594925009	BD09423 MW-5 MS	Water	05/17/23 11:00	06/09/23 10:20
30594925010	BD09423 MW-5 MSD	Water	05/17/23 11:00	06/09/23 10:20
30594925011	BD09424 FB-1	Water	05/17/23 11:30	06/09/23 10:20
30594925012	BD09425 MW-17	Water	05/17/23 13:30	06/09/23 10:20
30594925013	BD09426 MW-17-Dup	Water	05/17/23 13:30	06/09/23 10:20
30594925014	BD09427 MW-3	Water	05/17/23 14:55	06/09/23 10:20
30594925015	BD09725 MW-36H	Water	05/22/23 12:33	06/09/23 10:20
30594925016	BD09726 MW-18	Water	05/22/23 13:33	06/09/23 10:20
30594925017	BD09727 MW-45H	Water	05/22/23 15:00	06/09/23 10:20
30594925018	BD09728 MW-37H	Water	05/23/23 09:10	06/09/23 10:20
30594925019	BD09729 MW-38H	Water	05/23/23 10:40	06/09/23 10:20
30594925020	BD09730 MW-15	Water	05/23/23 13:40	06/09/23 10:20
30594925021	BD09731 MW-32	Water	05/22/23 14:55	06/09/23 10:20
30594925022	BD09731 MW-32 MS	Water	05/22/23 14:55	06/09/23 10:20
30594925023	BD09731 MW-32 MSD	Water	05/22/23 14:55	06/09/23 10:20
30594925024	BD09732 MW-33	Water	05/22/23 15:43	06/09/23 10:20
30594925025	BD09733 MW-33 Dup	Water	05/22/23 15:43	06/09/23 10:20
30594925026	BD09734 MW-31	Water	05/23/23 09:27	06/09/23 10:20
30594925027	BD09735 MW-35H	Water	05/23/23 10:32	06/09/23 10:20
30594925028	BD09736 MW-57H	Water	05/23/23 13:42	06/09/23 10:20
30594925029	BD09737 MW-57H Dup	Water	05/23/23 13:42	06/09/23 10:20
30594925030	BD09738 MW-54H	Water	05/23/23 14:40	06/09/23 10:20
30594925031	BD09738 MW-54H MS	Water	05/23/23 14:40	06/09/23 10:20
30594925032	BD09738 MW-54H MSD	Water	05/23/23 14:40	06/09/23 10:20
30594925033	BD09739 FB-3	Water	05/23/23 15:05	06/09/23 10:20
30594925034	BD09879 MW-10	Water	05/24/23 08:44	06/09/23 10:20
30594925035	BD09880 MW-14	Water	05/24/23 10:16	06/09/23 10:20
30594925036	BD09881 MW-39H	Water	05/24/23 11:23	06/09/23 10:20
30594925037	BD09882 MW-43H	Water	05/24/23 13:58	06/09/23 10:20

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: WMWGREAP\_1410  
Pace Project No.: 30594925

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30594925038	BD10193 FB-4	Water	05/30/23 12:30	06/09/23 10:20
30594925039	BD10194 MW-53H	Water	05/30/23 13:46	06/09/23 10:20
30594925040	BD10195 MW-6	Water	05/30/23 14:33	06/09/23 10:20
30594925041	BD10196 MW-7	Water	05/30/23 15:12	06/09/23 10:20
30594925042	BD10197 MW-8	Water	05/30/23 15:48	06/09/23 10:20
30594925043	BD10198 MW-9	Water	05/30/23 16:26	06/09/23 10:20
30594925044	BD10199 MW-25	Water	05/30/23 17:17	06/09/23 10:20
30594925045	BD10200 MW-42H	Water	05/30/23 12:32	06/09/23 10:20
30594925046	BD10201 MW-49H	Water	05/30/23 13:22	06/09/23 10:20
30594925047	BD10202 FB-5	Water	05/30/23 13:40	06/09/23 10:20
30594925048	BD10203 MW-48H	Water	05/30/23 14:28	06/09/23 10:20
30594925049	BD10204 MW-48H Dup	Water	05/30/23 14:28	06/09/23 10:20
30594925050	BD10205 MW-21	Water	05/30/23 15:36	06/09/23 10:20
30594925051	BD10206 MW-12	Water	05/30/23 16:20	06/09/23 10:20
30594925052	BD10207 MW-13	Water	05/31/23 08:44	06/09/23 10:20
30594925053	BD10208 MW-41H	Water	05/31/23 09:55	06/09/23 10:20
30594925054	BD10209 EB-1	Water	05/31/23 10:45	06/09/23 10:20
30594925055	BD10210 MW-30	Water	05/30/23 12:05	06/09/23 10:20
30594925056	BD10211 MW-29	Water	05/30/23 13:18	06/09/23 10:20
30594925057	BD10212 MW-28	Water	05/30/23 14:38	06/09/23 10:20
30594925058	BD10213 MW-27	Water	05/30/23 15:33	06/09/23 10:20
30594925059	BD10214 MW-26	Water	05/30/23 16:20	06/09/23 10:20
30594925060	BD10215 MW-26 Dup	Water	05/30/23 16:20	06/09/23 10:20
30594925061	BD10216 MW-16	Water	05/31/23 08:40	06/09/23 10:20
30594925062	BD10217 MW-40H	Water	05/31/23 09:40	06/09/23 10:20
30594925063	BD10218 FB-2	Water	05/31/23 10:40	06/09/23 10:20
30594925064	BD10219 MW-34HA	Water	05/31/23 10:55	06/09/23 10:20

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30594925001	BD09416 MW-44H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925002	BD09417 MW-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925003	BD09418 MW-11	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925004	BD09419 MW-23	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925005	BD09420 MW-24	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925006	BD09421 PZ-4	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925007	BD09422 MW-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925008	BD09423 MW-5	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925009	BD09423 MW-5 MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30594925010	BD09423 MW-5 MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30594925011	BD09424 FB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925012	BD09425 MW-17	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925013	BD09426 MW-17-Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30594925014	BD09427 MW-3	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925015	BD09725 MW-36H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925016	BD09726 MW-18	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925017	BD09727 MW-45H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925018	BD09728 MW-37H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925019	BD09729 MW-38H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925020	BD09730 MW-15	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925021	BD09731 MW-32	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925022	BD09731 MW-32 MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30594925023	BD09731 MW-32 MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30594925024	BD09732 MW-33	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925025	BD09733 MW-33 Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925026	BD09734 MW-31	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

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**SAMPLE ANALYTE COUNT**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30594925027	BD09735 MW-35H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925028	BD09736 MW-57H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925029	BD09737 MW-57H Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925030	BD09738 MW-54H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925031	BD09738 MW-54H MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925032	BD09738 MW-54H MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925033	BD09739 FB-3	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925034	BD09879 MW-10	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925035	BD09880 MW-14	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925036	BD09881 MW-39H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925037	BD09882 MW-43H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925038	BD10193 FB-4	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925039	BD10194 MW-53H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

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**SAMPLE ANALYTE COUNT**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30594925040	BD10195 MW-6	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925041	BD10196 MW-7	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925042	BD10197 MW-8	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925043	BD10198 MW-9	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925044	BD10199 MW-25	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925045	BD10200 MW-42H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925046	BD10201 MW-49H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925047	BD10202 FB-5	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925048	BD10203 MW-48H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925049	BD10204 MW-48H Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925050	BD10205 MW-21	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925051	BD10206 MW-12	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30594925052	BD10207 MW-13	EPA 9315	SLC	1	PASI-PA

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**SAMPLE ANALYTE COUNT**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30594925053	BD10208 MW-41H	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30594925054	BD10209 EB-1	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30594925055	BD10210 MW-30	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30594925056	BD10211 MW-29	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30594925057	BD10212 MW-28	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30594925058	BD10213 MW-27	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30594925059	BD10214 MW-26	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30594925060	BD10215 MW-26 Dup	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30594925061	BD10216 MW-16	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30594925062	BD10217 MW-40H	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30594925063	BD10218 FB-2	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30594925064	BD10219 MW-34HA	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA

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### SAMPLE ANALYTE COUNT

Project: WMWGREAP\_1410  
Pace Project No.: 30594925

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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	JAL	1	PASI-PA

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PASI-PA = Pace Analytical Services - Greensburg

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## PROJECT NARRATIVE

Project: WMWGREAP\_1410  
Pace Project No.: 30594925

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**Method:** EPA 9315  
**Description:** 9315 Total Radium  
**Client:** Alabama Power  
**Date:** July 10, 2023

### General Information:

64 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1410  
Pace Project No.: 30594925

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**Method:** EPA 9320  
**Description:** 9320 Radium 228  
**Client:** Alabama Power  
**Date:** July 10, 2023

### General Information:

64 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1410  
Pace Project No.: 30594925

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**Method:** Total Radium Calculation  
**Description:** Total Radium 228+226  
**Client:** Alabama Power  
**Date:** July 10, 2023

### General Information:

58 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09416 MW-44H**      **Lab ID: 30594925001**      Collected: 05/16/23 08:28      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.395U ± 0.299 (0.556)</b> <b>C:100% T:NA</b>	pCi/L	07/06/23 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.346U ± 0.307 (0.618)</b> <b>C:84% T:88%</b>	pCi/L	06/22/23 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.741U ± 0.606 (1.17)</b>	pCi/L	07/10/23 13:49	7440-14-4	

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09417 MW-1**      **Lab ID: 30594925002**      Collected: 05/16/23 08:19      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.497U ± 0.323 (0.548)</b> <b>C:88% T:NA</b>	pCi/L	07/06/23 08:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.384U ± 0.327 (0.651)</b> <b>C:82% T:85%</b>	pCi/L	06/22/23 11:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.881U ± 0.650 (1.20)</b>	pCi/L	07/10/23 13:49	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09418 MW-11**      **Lab ID: 30594925003**      Collected: 05/17/23 13:35      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.524 ± 0.316 (0.507)</b> <b>C:84% T:NA</b>	pCi/L	07/06/23 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.217U ± 0.377 (0.823)</b> <b>C:84% T:75%</b>	pCi/L	06/22/23 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.741U ± 0.693 (1.33)</b>	pCi/L	07/10/23 13:49	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09419 MW-23**      **Lab ID: 30594925004**      Collected: 05/16/23 08:38      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0608U ± 0.218 (0.537)</b> <b>C:89% T:NA</b>	pCi/L	07/06/23 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.230U ± 0.314 (0.672)</b> <b>C:88% T:79%</b>	pCi/L	06/22/23 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.291U ± 0.532 (1.21)</b>	pCi/L	07/10/23 13:49	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.744 ± 0.364 (0.507)</b> <b>C:86% T:NA</b>	pCi/L	07/06/23 08:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.442U ± 0.346 (0.677)</b> <b>C:83% T:80%</b>	pCi/L	06/22/23 11:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.19 ± 0.710 (1.18)</b>	pCi/L	07/10/23 13:49	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09421 PZ-4**      **Lab ID: 30594925006**      Collected: 05/17/23 08:53      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.786 ± 0.357 (0.481)</b> <b>C:97% T:NA</b>	pCi/L	07/06/23 08:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.57 ± 0.501 (0.634)</b> <b>C:84% T:84%</b>	pCi/L	06/22/23 11:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>2.36 ± 0.858 (1.12)</b>	pCi/L	07/10/23 13:49	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.885 ± 0.356 (0.341)</b> <b>C:93% T:NA</b>	pCi/L	07/06/23 08:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.438U ± 0.341 (0.669)</b> <b>C:86% T:78%</b>	pCi/L	06/22/23 11:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.32 ± 0.697 (1.01)</b>	pCi/L	07/10/23 13:49	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09423 MW-5**      **Lab ID: 30594925008**      Collected: 05/17/23 11:00      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.792 ± 0.373 (0.458)</b> <b>C:82% T:NA</b>	pCi/L	07/06/23 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.461U ± 0.400 (0.802)</b> <b>C:74% T:80%</b>	pCi/L	06/23/23 11:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.25U ± 0.773 (1.26)</b>	pCi/L	07/10/23 13:55	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09423 MW-5 MS**      **Lab ID: 30594925009**      Collected: 05/17/23 11:00      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>110.72 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	07/06/23 08:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>126.83 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/23/23 11:47	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09423 MW-5 MSD**      **Lab ID: 30594925010**      Collected: 05/17/23 11:00      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>119.28 %REC 7.44RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	07/06/23 08:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>136.55 %REC 7.38 RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/23/23 11:48	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09424 FB-1**      **Lab ID: 30594925011**      Collected: 05/17/23 11:30      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.123U ± 0.194 (0.429)</b> <b>C:94% T:NA</b>	pCi/L	07/06/23 08:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.415U ± 0.437 (0.905)</b> <b>C:73% T:83%</b>	pCi/L	06/23/23 11:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.538U ± 0.631 (1.33)</b>	pCi/L	07/10/23 13:55	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09425 MW-17**      **Lab ID: 30594925012**      Collected: 05/17/23 13:30      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>1.25 ± 0.444 (0.440)</b> <b>C:92% T:NA</b>	pCi/L	07/06/23 08:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.04 ± 0.514 (0.888)</b> <b>C:72% T:83%</b>	pCi/L	06/23/23 11:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>2.29 ± 0.958 (1.33)</b>	pCi/L	07/10/23 13:55	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09426 MW-17-Dup**      **Lab ID: 30594925013**      Collected: 05/17/23 13:30      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.697 ± 0.333 (0.419)</b> <b>C:88% T:NA</b>	pCi/L	07/06/23 08:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.800U ± 0.482 (0.886)</b> <b>C:70% T:80%</b>	pCi/L	06/23/23 11:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.50 ± 0.815 (1.31)</b>	pCi/L	07/10/23 13:55	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09427 MW-3**      **Lab ID: 30594925014**      Collected: 05/17/23 14:55      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.301U ± 0.228 (0.372)</b> <b>C:93% T:NA</b>	pCi/L	07/06/23 08:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.798U ± 0.484 (0.897)</b> <b>C:70% T:82%</b>	pCi/L	06/23/23 11:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.10U ± 0.712 (1.27)</b>	pCi/L	07/10/23 13:55	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09725 MW-36H**      **Lab ID: 30594925015**      Collected: 05/22/23 12:33      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.172U ± 0.199 (0.397)</b> <b>C:93% T:NA</b>	pCi/L	07/06/23 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.496U ± 0.405 (0.803)</b> <b>C:69% T:86%</b>	pCi/L	06/23/23 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.668U ± 0.604 (1.20)</b>	pCi/L	07/10/23 13:55	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09726 MW-18**      **Lab ID: 30594925016**      Collected: 05/22/23 13:33      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.632U ± 0.427 (0.776)</b> <b>C:75% T:NA</b>	pCi/L	07/05/23 19:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.851U ± 0.477 (0.854)</b> <b>C:68% T:83%</b>	pCi/L	06/23/23 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.48U ± 0.904 (1.63)</b>	pCi/L	07/10/23 13:55	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09727 MW-45H**      **Lab ID: 30594925017**      Collected: 05/22/23 15:00      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.160U ± 0.264 (0.594)</b> <b>C:91% T:NA</b>	pCi/L	07/05/23 19:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.08 ± 0.503 (0.834)</b> <b>C:72% T:80%</b>	pCi/L	06/23/23 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.24U ± 0.767 (1.43)</b>	pCi/L	07/10/23 13:55	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09728 MW-37H**      **Lab ID: 30594925018**      Collected: 05/23/23 09:10      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.107U ± 0.230 (0.537)</b> <b>C:91% T:NA</b>	pCi/L	07/05/23 19:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.697U ± 0.432 (0.797)</b> <b>C:68% T:84%</b>	pCi/L	06/23/23 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.804U ± 0.662 (1.33)</b>	pCi/L	07/10/23 13:55	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09729 MW-38H**      **Lab ID: 30594925019**      Collected: 05/23/23 10:40      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0555U ± 0.195 (0.481)</b> <b>C:90% T:NA</b>	pCi/L	07/05/23 19:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.324U ± 0.342 (0.707)</b> <b>C:74% T:85%</b>	pCi/L	06/23/23 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.380U ± 0.537 (1.19)</b>	pCi/L	07/10/23 13:55	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09730 MW-15**      **Lab ID: 30594925020**      Collected: 05/23/23 13:40      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.364U ± 0.283 (0.520)</b> <b>C:92% T:NA</b>	pCi/L	07/05/23 19:05	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.359U ± 0.341 (0.693)</b> <b>C:78% T:82%</b>	pCi/L	06/23/23 11:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.723U ± 0.624 (1.21)</b>	pCi/L	07/10/23 13:55	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09731 MW-32**      **Lab ID: 30594925021**      Collected: 05/22/23 14:55      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.409U ± 0.305 (0.561)</b> <b>C:96% T:NA</b>	pCi/L	07/10/23 08:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.193U ± 0.297 (0.641)</b> <b>C:87% T:87%</b>	pCi/L	06/27/23 15:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.602U ± 0.602 (1.20)</b>	pCi/L	07/10/23 13:40	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09731 MW-32 MS**      **Lab ID: 30594925022**      Collected: 05/22/23 14:55      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>111.56 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	07/10/23 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>72.63 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/27/23 15:07	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09731 MW-32 MSD**      **Lab ID: 30594925023**      Collected: 05/22/23 14:55      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>112.99 %REC 1.27RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	07/10/23 08:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>107.21 %REC 38.47RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/27/23 15:07	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09732 MW-33**      **Lab ID: 30594925024**      Collected: 05/22/23 15:43      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.771 ± 0.407 (0.674)</b> <b>C:93% T:NA</b>	pCi/L	07/10/23 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.59 ± 0.534 (0.712)</b> <b>C:80% T:84%</b>	pCi/L	06/23/23 11:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.36 ± 0.941 (1.39)</b>	pCi/L	07/10/23 13:40	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09733 MW-33 Dup**      **Lab ID: 30594925025**      Collected: 05/22/23 15:43      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>1.02 ± 0.394 (0.416)</b> <b>C:91% T:NA</b>	pCi/L	07/10/23 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.44 ± 0.512 (0.715)</b> <b>C:77% T:86%</b>	pCi/L	06/23/23 11:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.46 ± 0.906 (1.13)</b>	pCi/L	07/10/23 13:40	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09734 MW-31**      **Lab ID: 30594925026**      Collected: 05/23/23 09:27      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.289U ± 0.267 (0.516)</b> <b>C:88% T:NA</b>	pCi/L	07/10/23 08:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.186U ± 0.404 (0.887)</b> <b>C:73% T:82%</b>	pCi/L	06/23/23 11:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.475U ± 0.671 (1.40)</b>	pCi/L	07/10/23 13:40	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09735 MW-35H**      **Lab ID: 30594925027**      Collected: 05/23/23 10:32      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.196U ± 0.236 (0.491)</b> <b>C:91% T:NA</b>	pCi/L	07/10/23 08:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.397U ± 0.390 (0.799)</b> <b>C:74% T:83%</b>	pCi/L	06/23/23 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.593U ± 0.626 (1.29)</b>	pCi/L	07/10/23 13:40	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09736 MW-57H**      **Lab ID: 30594925028**      Collected: 05/23/23 13:42      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.614 ± 0.350 (0.569)</b> <b>C:92% T:NA</b>	pCi/L	07/10/23 08:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.994 ± 0.439 (0.701)</b> <b>C:80% T:84%</b>	pCi/L	06/23/23 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.61 ± 0.789 (1.27)</b>	pCi/L	07/10/23 13:40	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09737 MW-57H Dup**      **Lab ID: 30594925029**      Collected: 05/23/23 13:42      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.183U ± 0.233 (0.497)</b> <b>C:97% T:NA</b>	pCi/L	07/10/23 08:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.870 ± 0.418 (0.697)</b> <b>C:75% T:84%</b>	pCi/L	06/23/23 11:53	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.05U ± 0.651 (1.19)</b>	pCi/L	07/10/23 13:40	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09738 MW-54H**      **Lab ID: 30594925030**      Collected: 05/23/23 14:40      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.892 ± 0.398 (0.507)</b> <b>C:87% T:NA</b>	pCi/L	07/10/23 08:58	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.06 ± 0.422 (0.647)</b> <b>C:88% T:85%</b>	pCi/L	06/27/23 11:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.95 ± 0.820 (1.15)</b>	pCi/L	07/10/23 13:37	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09738 MW-54H MS**      **Lab ID: 30594925031**      Collected: 05/23/23 14:40      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>107.84 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	07/10/23 08:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>95.89 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/27/23 11:45	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09738 MW-54H MSD**    **Lab ID: 30594925032**    Collected: 05/23/23 14:40    Received: 06/09/23 10:20    Matrix: Water  
 PWS:    Site ID:    Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>117.27 %REC 8.38RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	07/10/23 08:58	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>90.67 %REC 5.60RPD ± NA</b> <b>(NA)</b> <b>C:NA T:NA</b>	pCi/L	06/27/23 11:46	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09739 FB-3**      **Lab ID: 30594925033**      Collected: 05/23/23 15:05      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.369U ± 0.273 (0.478)</b> <b>C:93% T:NA</b>	pCi/L	07/10/23 08:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.270U ± 0.312 (0.650)</b> <b>C:75% T:84%</b>	pCi/L	06/23/23 11:53	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.639U ± 0.585 (1.13)</b>	pCi/L	07/10/23 13:40	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09879 MW-10**      **Lab ID: 30594925034**      Collected: 05/24/23 08:44      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.813 ± 0.349 (0.457)</b> <b>C:97% T:NA</b>	pCi/L	07/10/23 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.788U ± 0.486 (0.922)</b> <b>C:82% T:81%</b>	pCi/L	06/27/23 15:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.60 ± 0.835 (1.38)</b>	pCi/L	07/10/23 13:40	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09880 MW-14**      **Lab ID: 30594925035**      Collected: 05/24/23 10:16      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.602 ± 0.312 (0.435)</b> <b>C:93% T:NA</b>	pCi/L	07/10/23 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.07 ± 0.450 (0.712)</b> <b>C:86% T:80%</b>	pCi/L	06/27/23 15:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.67 ± 0.762 (1.15)</b>	pCi/L	07/10/23 13:40	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09881 MW-39H**      **Lab ID: 30594925036**      Collected: 05/24/23 11:23      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.648 ± 0.337 (0.498)</b> <b>C:94% T:NA</b>	pCi/L	07/10/23 08:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.871 ± 0.435 (0.749)</b> <b>C:84% T:86%</b>	pCi/L	06/27/23 15:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.52 ± 0.772 (1.25)</b>	pCi/L	07/10/23 13:40	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD09882 MW-43H**      **Lab ID: 30594925037**      Collected: 05/24/23 13:58      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>1.05 ± 0.424 (0.512)</b> <b>C:87% T:NA</b>	pCi/L	07/10/23 09:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.736 ± 0.390 (0.688)</b> <b>C:86% T:86%</b>	pCi/L	06/27/23 15:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.79 ± 0.814 (1.20)</b>	pCi/L	07/10/23 13:40	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10193 FB-4**      **Lab ID: 30594925038**      Collected: 05/30/23 12:30      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.387U ± 0.298 (0.552)</b> <b>C:94% T:NA</b>	pCi/L	07/10/23 08:57	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.169U ± 0.279 (0.606)</b> <b>C:87% T:91%</b>	pCi/L	06/27/23 15:08	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.556U ± 0.577 (1.16)</b>	pCi/L	07/10/23 13:40	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10194 MW-53H**      **Lab ID: 30594925039**      Collected: 05/30/23 13:46      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.437U ± 0.290 (0.489)</b> <b>C:93% T:NA</b>	pCi/L	07/10/23 08:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.724 ± 0.382 (0.666)</b> <b>C:87% T:81%</b>	pCi/L	06/27/23 15:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.16 ± 0.672 (1.16)</b>	pCi/L	07/10/23 13:40	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10195 MW-6**      **Lab ID: 30594925040**      Collected: 05/30/23 14:33      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.423U ± 0.302 (0.507)</b> <b>C:78% T:NA</b>	pCi/L	07/10/23 08:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.347U ± 0.369 (0.765)</b> <b>C:85% T:78%</b>	pCi/L	06/27/23 15:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.770U ± 0.671 (1.27)</b>	pCi/L	07/10/23 13:40	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10196 MW-7**      **Lab ID: 30594925041**      Collected: 05/30/23 15:12      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.437 ± 0.254 (0.360)</b> <b>C:96% T:NA</b>	pCi/L	07/10/23 08:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.340U ± 0.334 (0.685)</b> <b>C:86% T:83%</b>	pCi/L	06/27/23 15:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.777U ± 0.588 (1.05)</b>	pCi/L	07/10/23 13:40	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10197 MW-8**      **Lab ID: 30594925042**      Collected: 05/30/23 15:48      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.670 ± 0.325 (0.418)</b> <b>C:90% T:NA</b>	pCi/L	07/10/23 08:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.497U ± 0.349 (0.664)</b> <b>C:83% T:83%</b>	pCi/L	06/27/23 15:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.17 ± 0.674 (1.08)</b>	pCi/L	07/10/23 13:40	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10198 MW-9**      **Lab ID: 30594925043**      Collected: 05/30/23 16:26      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>1.26 ± 0.454 (0.427)</b> <b>C:82% T:NA</b>	pCi/L	07/10/23 08:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.00 ± 0.427 (0.671)</b> <b>C:84% T:83%</b>	pCi/L	06/27/23 15:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.26 ± 0.881 (1.10)</b>	pCi/L	07/10/23 13:40	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10199 MW-25**      **Lab ID: 30594925044**      Collected: 05/30/23 17:17      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.828 ± 0.352 (0.404)</b> <b>C:92% T:NA</b>	pCi/L	07/10/23 08:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.772 ± 0.417 (0.748)</b> <b>C:84% T:84%</b>	pCi/L	06/27/23 15:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.60 ± 0.769 (1.15)</b>	pCi/L	07/10/23 13:37	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10200 MW-42H**      **Lab ID: 30594925045**      Collected: 05/30/23 12:32      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.730 ± 0.333 (0.438)</b> <b>C:93% T:NA</b>	pCi/L	07/10/23 08:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.723U ± 0.410 (0.743)</b> <b>C:85% T:83%</b>	pCi/L	06/27/23 15:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.45 ± 0.743 (1.18)</b>	pCi/L	07/10/23 13:37	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.373U ± 0.276 (0.478)</b> <b>C:88% T:NA</b>	pCi/L	07/10/23 08:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.415U ± 0.383 (0.781)</b> <b>C:84% T:83%</b>	pCi/L	06/27/23 15:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.788U ± 0.659 (1.26)</b>	pCi/L	07/10/23 13:37	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10202 FB-5**      **Lab ID: 30594925047**      Collected: 05/30/23 13:40      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.492 ± 0.283 (0.413)</b> <b>C:94% T:NA</b>	pCi/L	07/10/23 08:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.688 ± 0.367 (0.639)</b> <b>C:87% T:85%</b>	pCi/L	06/27/23 15:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.18 ± 0.650 (1.05)</b>	pCi/L	07/10/23 13:38	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10203 MW-48H**      **Lab ID: 30594925048**      Collected: 05/30/23 14:28      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.128U ± 0.264 (0.611)</b> <b>C:95% T:NA</b>	pCi/L	07/10/23 08:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.539U ± 0.344 (0.638)</b> <b>C:90% T:83%</b>	pCi/L	06/27/23 15:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.667U ± 0.608 (1.25)</b>	pCi/L	07/10/23 13:38	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10204 MW-48H Dup**      **Lab ID: 30594925049**      Collected: 05/30/23 14:28      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.168U ± 0.244 (0.535)</b> <b>C:95% T:NA</b>	pCi/L	07/10/23 08:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.103U ± 0.235 (0.524)</b> <b>C:88% T:85%</b>	pCi/L	06/27/23 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.271U ± 0.479 (1.06)</b>	pCi/L	07/10/23 13:38	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10205 MW-21**      **Lab ID: 30594925050**      Collected: 05/30/23 15:36      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0728U ± 0.208 (0.503)</b> <b>C:93% T:NA</b>	pCi/L	07/10/23 09:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.659 ± 0.358 (0.628)</b> <b>C:85% T:83%</b>	pCi/L	06/27/23 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.732U ± 0.566 (1.13)</b>	pCi/L	07/10/23 13:38	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10206 MW-12**      **Lab ID: 30594925051**      Collected: 05/30/23 16:20      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.254U ± 0.220 (0.382)</b> <b>C:86% T:NA</b>	pCi/L	07/10/23 09:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.884 ± 0.420 (0.707)</b> <b>C:87% T:77%</b>	pCi/L	06/27/23 11:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.14 ± 0.640 (1.09)</b>	pCi/L	07/10/23 13:38	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10207 MW-13**      **Lab ID: 30594925052**      Collected: 05/31/23 08:44      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.186U ± 0.219 (0.452)</b> <b>C:97% T:NA</b>	pCi/L	07/10/23 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.326U ± 0.336 (0.693)</b> <b>C:87% T:76%</b>	pCi/L	06/27/23 11:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.512U ± 0.555 (1.15)</b>	pCi/L	07/10/23 13:38	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10208 MW-41H**      **Lab ID: 30594925053**      Collected: 05/31/23 09:55      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.650 ± 0.316 (0.409)</b> <b>C:98% T:NA</b>	pCi/L	07/10/23 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.650 ± 0.353 (0.620)</b> <b>C:87% T:80%</b>	pCi/L	06/27/23 11:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.30 ± 0.669 (1.03)</b>	pCi/L	07/10/23 13:38	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10209 EB-1**      **Lab ID: 30594925054**      Collected: 05/31/23 10:45      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.109U ± 0.230 (0.537)</b> <b>C:87% T:NA</b>	pCi/L	07/10/23 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0833U ± 0.275 (0.623)</b> <b>C:87% T:82%</b>	pCi/L	06/27/23 11:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.192U ± 0.505 (1.16)</b>	pCi/L	07/10/23 13:38	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10210 MW-30**      **Lab ID: 30594925055**      Collected: 05/30/23 12:05      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.664 ± 0.338 (0.467)</b> <b>C:89% T:NA</b>	pCi/L	07/10/23 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.524U ± 0.363 (0.700)</b> <b>C:87% T:82%</b>	pCi/L	06/27/23 11:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.19 ± 0.701 (1.17)</b>	pCi/L	07/10/23 13:38	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10211 MW-29**      **Lab ID: 30594925056**      Collected: 05/30/23 13:18      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.362U ± 0.264 (0.453)</b> <b>C:94% T:NA</b>	pCi/L	07/10/23 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.649U ± 0.368 (0.667)</b> <b>C:89% T:83%</b>	pCi/L	06/27/23 11:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.01U ± 0.632 (1.12)</b>	pCi/L	07/10/23 13:38	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10212 MW-28**      **Lab ID: 30594925057**      Collected: 05/30/23 14:38      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.264U ± 0.226 (0.403)</b> <b>C:92% T:NA</b>	pCi/L	07/10/23 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.817 ± 0.426 (0.756)</b> <b>C:88% T:78%</b>	pCi/L	06/27/23 11:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.08U ± 0.652 (1.16)</b>	pCi/L	07/10/23 13:38	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10213 MW-27**      **Lab ID: 30594925058**      Collected: 05/30/23 15:33      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.715 ± 0.327 (0.377)</b> <b>C:90% T:NA</b>	pCi/L	07/10/23 09:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.733 ± 0.365 (0.618)</b> <b>C:87% T:82%</b>	pCi/L	06/27/23 11:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.45 ± 0.692 (0.995)</b>	pCi/L	07/10/23 13:38	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.325U ± 0.238 (0.389)</b> <b>C:94% T:NA</b>	pCi/L	07/10/23 09:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.166U ± 0.282 (0.615)</b> <b>C:87% T:84%</b>	pCi/L	06/27/23 11:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.491U ± 0.520 (1.00)</b>	pCi/L	07/10/23 13:38	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10215 MW-26 Dup**      **Lab ID: 30594925060**      Collected: 05/30/23 16:20      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.310U ± 0.241 (0.408)</b> <b>C:91% T:NA</b>	pCi/L	07/10/23 09:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.215U ± 0.342 (0.741)</b> <b>C:86% T:78%</b>	pCi/L	06/27/23 12:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.525U ± 0.583 (1.15)</b>	pCi/L	07/10/23 13:38	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10216 MW-16**      **Lab ID: 30594925061**      Collected: 05/31/23 08:40      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.635 ± 0.313 (0.406)</b> <b>C:96% T:NA</b>	pCi/L	07/10/23 10:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.36 ± 0.451 (0.584)</b> <b>C:87% T:87%</b>	pCi/L	06/27/23 11:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.00 ± 0.764 (0.990)</b>	pCi/L	07/10/23 13:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10217 MW-40H**      **Lab ID: 30594925062**      Collected: 05/31/23 09:40      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.193U ± 0.226 (0.468)</b> <b>C:92% T:NA</b>	pCi/L	07/10/23 10:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.87 ± 0.549 (0.630)</b> <b>C:85% T:85%</b>	pCi/L	06/27/23 11:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.06 ± 0.775 (1.10)</b>	pCi/L	07/10/23 13:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.449 ± 0.276 (0.436)</b> <b>C:97% T:NA</b>	pCi/L	07/10/23 10:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.206U ± 0.335 (0.729)</b> <b>C:87% T:82%</b>	pCi/L	06/27/23 11:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.655U ± 0.611 (1.17)</b>	pCi/L	07/10/23 13:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

**Sample: BD10219 MW-34HA**      **Lab ID: 30594925064**      Collected: 05/31/23 10:55      Received: 06/09/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.208U ± 0.212 (0.409)</b> <b>C:96% T:NA</b>	pCi/L	07/10/23 10:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.12 ± 0.452 (0.699)</b> <b>C:87% T:83%</b>	pCi/L	06/27/23 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.33 ± 0.664 (1.11)</b>	pCi/L	07/10/23 13:45	7440-14-4	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

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QC Batch: 594367 Analysis Method: EPA 9320  
 QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228  
 Laboratory: Pace Analytical Services - Greensburg  
 Associated Lab Samples: 30594925008, 30594925009, 30594925010, 30594925011, 30594925012, 30594925013, 30594925014,  
 30594925015, 30594925016, 30594925017, 30594925018, 30594925019, 30594925020, 30594925024,  
 30594925025, 30594925026, 30594925027, 30594925028, 30594925029, 30594925033

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METHOD BLANK: 2888878 Matrix: Water  
 Associated Lab Samples: 30594925008, 30594925009, 30594925010, 30594925011, 30594925012, 30594925013, 30594925014,  
 30594925015, 30594925016, 30594925017, 30594925018, 30594925019, 30594925020, 30594925024,  
 30594925025, 30594925026, 30594925027, 30594925028, 30594925029, 30594925033

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.552 ± 0.380 (0.728) C:75% T:88%	pCi/L	06/23/23 11:47	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

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QC Batch:	594216	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30594925030, 30594925031, 30594925032, 30594925044, 30594925045, 30594925046, 30594925047, 30594925048, 30594925049, 30594925050, 30594925051, 30594925052, 30594925053, 30594925054, 30594925055, 30594925056, 30594925057, 30594925058, 30594925059, 30594925060

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METHOD BLANK: 2887876 Matrix: Water

Associated Lab Samples: 30594925030, 30594925031, 30594925032, 30594925044, 30594925045, 30594925046, 30594925047, 30594925048, 30594925049, 30594925050, 30594925051, 30594925052, 30594925053, 30594925054, 30594925055, 30594925056, 30594925057, 30594925058, 30594925059, 30594925060

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.185 ± 0.120 (0.197) C:95% T:NA	pCi/L	07/10/23 08:58	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

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QC Batch:	594368	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30594925021, 30594925022, 30594925023, 30594925034, 30594925035, 30594925036, 30594925037, 30594925038, 30594925039, 30594925040, 30594925041, 30594925042, 30594925043, 30594925044, 30594925045, 30594925046, 30594925047, 30594925048, 30594925049, 30594925050

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METHOD BLANK: 2888879 Matrix: Water

Associated Lab Samples: 30594925021, 30594925022, 30594925023, 30594925034, 30594925035, 30594925036, 30594925037, 30594925038, 30594925039, 30594925040, 30594925041, 30594925042, 30594925043, 30594925044, 30594925045, 30594925046, 30594925047, 30594925048, 30594925049, 30594925050

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.565 ± 0.333 (0.602) C:88% T:86%	pCi/L	06/27/23 15:06	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

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QC Batch:	594366	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30594925001, 30594925002, 30594925003, 30594925004, 30594925005, 30594925006, 30594925007

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METHOD BLANK: 2888877 Matrix: Water

Associated Lab Samples: 30594925001, 30594925002, 30594925003, 30594925004, 30594925005, 30594925006, 30594925007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.496 ± 0.362 (0.701) C:82% T:80%	pCi/L	06/22/23 11:25	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

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QC Batch:	594211	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30594925001, 30594925002, 30594925003, 30594925004, 30594925005, 30594925006, 30594925007, 30594925008, 30594925009, 30594925010, 30594925011, 30594925012, 30594925013, 30594925014, 30594925015, 30594925016, 30594925017, 30594925018, 30594925019, 30594925020

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METHOD BLANK: 2887867 Matrix: Water

Associated Lab Samples: 30594925001, 30594925002, 30594925003, 30594925004, 30594925005, 30594925006, 30594925007, 30594925008, 30594925009, 30594925010, 30594925011, 30594925012, 30594925013, 30594925014, 30594925015, 30594925016, 30594925017, 30594925018, 30594925019, 30594925020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0257 ± 0.107 (0.263) C:94% T:NA	pCi/L	07/06/23 08:34	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

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QC Batch:	594369	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30594925030, 30594925031, 30594925032, 30594925051, 30594925052, 30594925053, 30594925054, 30594925055, 30594925056, 30594925057, 30594925058, 30594925059, 30594925060, 30594925061, 30594925062, 30594925063, 30594925064

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METHOD BLANK: 2888880 Matrix: Water

Associated Lab Samples: 30594925030, 30594925031, 30594925032, 30594925051, 30594925052, 30594925053, 30594925054, 30594925055, 30594925056, 30594925057, 30594925058, 30594925059, 30594925060, 30594925061, 30594925062, 30594925063, 30594925064

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.487 ± 0.365 (0.712) C:87% T:81%	pCi/L	06/27/23 11:45	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

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QC Batch: 594457	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30594925061, 30594925062, 30594925063, 30594925064

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METHOD BLANK: 2889068 Matrix: Water  
 Associated Lab Samples: 30594925061, 30594925062, 30594925063, 30594925064

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.149 ± 0.112 (0.197) C:95% T:NA	pCi/L	07/10/23 10:38	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

QC Batch:	594215	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30594925021, 30594925022, 30594925023, 30594925024, 30594925025, 30594925026, 30594925027, 30594925028, 30594925029, 30594925033, 30594925034, 30594925035, 30594925036, 30594925037, 30594925038, 30594925039, 30594925040, 30594925041, 30594925042, 30594925043

METHOD BLANK:	2887875	Matrix:	Water
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Associated Lab Samples: 30594925021, 30594925022, 30594925023, 30594925024, 30594925025, 30594925026, 30594925027, 30594925028, 30594925029, 30594925033, 30594925034, 30594925035, 30594925036, 30594925037, 30594925038, 30594925039, 30594925040, 30594925041, 30594925042, 30594925043

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0546 ± 0.103 (0.237) C:80% T:NA	pCi/L	07/10/23 08:54	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: WMWGREAP\_1410  
Pace Project No.: 30594925

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30594925001	BD09416 MW-44H	EPA 9315	594211		
30594925002	BD09417 MW-1	EPA 9315	594211		
30594925003	BD09418 MW-11	EPA 9315	594211		
30594925004	BD09419 MW-23	EPA 9315	594211		
30594925005	BD09420 MW-24	EPA 9315	594211		
30594925006	BD09421 PZ-4	EPA 9315	594211		
30594925007	BD09422 MW-2	EPA 9315	594211		
30594925008	BD09423 MW-5	EPA 9315	594211		
30594925009	BD09423 MW-5 MS	EPA 9315	594211		
30594925010	BD09423 MW-5 MSD	EPA 9315	594211		
30594925011	BD09424 FB-1	EPA 9315	594211		
30594925012	BD09425 MW-17	EPA 9315	594211		
30594925013	BD09426 MW-17-Dup	EPA 9315	594211		
30594925014	BD09427 MW-3	EPA 9315	594211		
30594925015	BD09725 MW-36H	EPA 9315	594211		
30594925016	BD09726 MW-18	EPA 9315	594211		
30594925017	BD09727 MW-45H	EPA 9315	594211		
30594925018	BD09728 MW-37H	EPA 9315	594211		
30594925019	BD09729 MW-38H	EPA 9315	594211		
30594925020	BD09730 MW-15	EPA 9315	594211		
30594925021	BD09731 MW-32	EPA 9315	594215		
30594925022	BD09731 MW-32 MS	EPA 9315	594215		
30594925023	BD09731 MW-32 MSD	EPA 9315	594215		
30594925024	BD09732 MW-33	EPA 9315	594215		
30594925025	BD09733 MW-33 Dup	EPA 9315	594215		
30594925026	BD09734 MW-31	EPA 9315	594215		
30594925027	BD09735 MW-35H	EPA 9315	594215		
30594925028	BD09736 MW-57H	EPA 9315	594215		
30594925029	BD09737 MW-57H Dup	EPA 9315	594215		
30594925030	BD09738 MW-54H	EPA 9315	594216		
30594925031	BD09738 MW-54H MS	EPA 9315	594216		
30594925032	BD09738 MW-54H MSD	EPA 9315	594216		
30594925033	BD09739 FB-3	EPA 9315	594215		
30594925034	BD09879 MW-10	EPA 9315	594215		
30594925035	BD09880 MW-14	EPA 9315	594215		
30594925036	BD09881 MW-39H	EPA 9315	594215		
30594925037	BD09882 MW-43H	EPA 9315	594215		
30594925038	BD10193 FB-4	EPA 9315	594215		
30594925039	BD10194 MW-53H	EPA 9315	594215		
30594925040	BD10195 MW-6	EPA 9315	594215		
30594925041	BD10196 MW-7	EPA 9315	594215		
30594925042	BD10197 MW-8	EPA 9315	594215		
30594925043	BD10198 MW-9	EPA 9315	594215		
30594925044	BD10199 MW-25	EPA 9315	594216		
30594925045	BD10200 MW-42H	EPA 9315	594216		
30594925046	BD10201 MW-49H	EPA 9315	594216		
30594925047	BD10202 FB-5	EPA 9315	594216		

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30594925048	BD10203 MW-48H	EPA 9315	594216		
30594925049	BD10204 MW-48H Dup	EPA 9315	594216		
30594925050	BD10205 MW-21	EPA 9315	594216		
30594925051	BD10206 MW-12	EPA 9315	594216		
30594925052	BD10207 MW-13	EPA 9315	594216		
30594925053	BD10208 MW-41H	EPA 9315	594216		
30594925054	BD10209 EB-1	EPA 9315	594216		
30594925055	BD10210 MW-30	EPA 9315	594216		
30594925056	BD10211 MW-29	EPA 9315	594216		
30594925057	BD10212 MW-28	EPA 9315	594216		
30594925058	BD10213 MW-27	EPA 9315	594216		
30594925059	BD10214 MW-26	EPA 9315	594216		
30594925060	BD10215 MW-26 Dup	EPA 9315	594216		
30594925061	BD10216 MW-16	EPA 9315	594457		
30594925062	BD10217 MW-40H	EPA 9315	594457		
30594925063	BD10218 FB-2	EPA 9315	594457		
30594925064	BD10219 MW-34HA	EPA 9315	594457		
30594925001	BD09416 MW-44H	EPA 9320	594366		
30594925002	BD09417 MW-1	EPA 9320	594366		
30594925003	BD09418 MW-11	EPA 9320	594366		
30594925004	BD09419 MW-23	EPA 9320	594366		
30594925005	BD09420 MW-24	EPA 9320	594366		
30594925006	BD09421 PZ-4	EPA 9320	594366		
30594925007	BD09422 MW-2	EPA 9320	594366		
30594925008	BD09423 MW-5	EPA 9320	594367		
30594925009	BD09423 MW-5 MS	EPA 9320	594367		
30594925010	BD09423 MW-5 MSD	EPA 9320	594367		
30594925011	BD09424 FB-1	EPA 9320	594367		
30594925012	BD09425 MW-17	EPA 9320	594367		
30594925013	BD09426 MW-17-Dup	EPA 9320	594367		
30594925014	BD09427 MW-3	EPA 9320	594367		
30594925015	BD09725 MW-36H	EPA 9320	594367		
30594925016	BD09726 MW-18	EPA 9320	594367		
30594925017	BD09727 MW-45H	EPA 9320	594367		
30594925018	BD09728 MW-37H	EPA 9320	594367		
30594925019	BD09729 MW-38H	EPA 9320	594367		
30594925020	BD09730 MW-15	EPA 9320	594367		
30594925021	BD09731 MW-32	EPA 9320	594368		
30594925022	BD09731 MW-32 MS	EPA 9320	594368		
30594925023	BD09731 MW-32 MSD	EPA 9320	594368		
30594925024	BD09732 MW-33	EPA 9320	594367		
30594925025	BD09733 MW-33 Dup	EPA 9320	594367		
30594925026	BD09734 MW-31	EPA 9320	594367		
30594925027	BD09735 MW-35H	EPA 9320	594367		
30594925028	BD09736 MW-57H	EPA 9320	594367		
30594925029	BD09737 MW-57H Dup	EPA 9320	594367		

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30594925030	BD09738 MW-54H	EPA 9320	594369		
30594925031	BD09738 MW-54H MS	EPA 9320	594369		
30594925032	BD09738 MW-54H MSD	EPA 9320	594369		
30594925033	BD09739 FB-3	EPA 9320	594367		
30594925034	BD09879 MW-10	EPA 9320	594368		
30594925035	BD09880 MW-14	EPA 9320	594368		
30594925036	BD09881 MW-39H	EPA 9320	594368		
30594925037	BD09882 MW-43H	EPA 9320	594368		
30594925038	BD10193 FB-4	EPA 9320	594368		
30594925039	BD10194 MW-53H	EPA 9320	594368		
30594925040	BD10195 MW-6	EPA 9320	594368		
30594925041	BD10196 MW-7	EPA 9320	594368		
30594925042	BD10197 MW-8	EPA 9320	594368		
30594925043	BD10198 MW-9	EPA 9320	594368		
30594925044	BD10199 MW-25	EPA 9320	594368		
30594925045	BD10200 MW-42H	EPA 9320	594368		
30594925046	BD10201 MW-49H	EPA 9320	594368		
30594925047	BD10202 FB-5	EPA 9320	594368		
30594925048	BD10203 MW-48H	EPA 9320	594368		
30594925049	BD10204 MW-48H Dup	EPA 9320	594368		
30594925050	BD10205 MW-21	EPA 9320	594368		
30594925051	BD10206 MW-12	EPA 9320	594369		
30594925052	BD10207 MW-13	EPA 9320	594369		
30594925053	BD10208 MW-41H	EPA 9320	594369		
30594925054	BD10209 EB-1	EPA 9320	594369		
30594925055	BD10210 MW-30	EPA 9320	594369		
30594925056	BD10211 MW-29	EPA 9320	594369		
30594925057	BD10212 MW-28	EPA 9320	594369		
30594925058	BD10213 MW-27	EPA 9320	594369		
30594925059	BD10214 MW-26	EPA 9320	594369		
30594925060	BD10215 MW-26 Dup	EPA 9320	594369		
30594925061	BD10216 MW-16	EPA 9320	594369		
30594925062	BD10217 MW-40H	EPA 9320	594369		
30594925063	BD10218 FB-2	EPA 9320	594369		
30594925064	BD10219 MW-34HA	EPA 9320	594369		
30594925001	BD09416 MW-44H	Total Radium Calculation	600389		
30594925002	BD09417 MW-1	Total Radium Calculation	600389		
30594925003	BD09418 MW-11	Total Radium Calculation	600389		
30594925004	BD09419 MW-23	Total Radium Calculation	600389		
30594925005	BD09420 MW-24	Total Radium Calculation	600389		
30594925006	BD09421 PZ-4	Total Radium Calculation	600389		
30594925007	BD09422 MW-2	Total Radium Calculation	600389		
30594925008	BD09423 MW-5	Total Radium Calculation	600394		
30594925011	BD09424 FB-1	Total Radium Calculation	600394		
30594925012	BD09425 MW-17	Total Radium Calculation	600394		
30594925013	BD09426 MW-17-Dup	Total Radium Calculation	600394		

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: WMWGREAP\_1410  
 Pace Project No.: 30594925

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30594925014	BD09427 MW-3	Total Radium Calculation	600394		
30594925015	BD09725 MW-36H	Total Radium Calculation	600394		
30594925016	BD09726 MW-18	Total Radium Calculation	600394		
30594925017	BD09727 MW-45H	Total Radium Calculation	600394		
30594925018	BD09728 MW-37H	Total Radium Calculation	600394		
30594925019	BD09729 MW-38H	Total Radium Calculation	600394		
30594925020	BD09730 MW-15	Total Radium Calculation	600394		
30594925021	BD09731 MW-32	Total Radium Calculation	600382		
30594925024	BD09732 MW-33	Total Radium Calculation	600382		
30594925025	BD09733 MW-33 Dup	Total Radium Calculation	600382		
30594925026	BD09734 MW-31	Total Radium Calculation	600382		
30594925027	BD09735 MW-35H	Total Radium Calculation	600382		
30594925028	BD09736 MW-57H	Total Radium Calculation	600382		
30594925029	BD09737 MW-57H Dup	Total Radium Calculation	600382		
30594925030	BD09738 MW-54H	Total Radium Calculation	600380		
30594925033	BD09739 FB-3	Total Radium Calculation	600382		
30594925034	BD09879 MW-10	Total Radium Calculation	600382		
30594925035	BD09880 MW-14	Total Radium Calculation	600382		
30594925036	BD09881 MW-39H	Total Radium Calculation	600382		
30594925037	BD09882 MW-43H	Total Radium Calculation	600382		
30594925038	BD10193 FB-4	Total Radium Calculation	600382		
30594925039	BD10194 MW-53H	Total Radium Calculation	600382		
30594925040	BD10195 MW-6	Total Radium Calculation	600382		
30594925041	BD10196 MW-7	Total Radium Calculation	600382		
30594925042	BD10197 MW-8	Total Radium Calculation	600382		
30594925043	BD10198 MW-9	Total Radium Calculation	600382		
30594925044	BD10199 MW-25	Total Radium Calculation	600380		
30594925045	BD10200 MW-42H	Total Radium Calculation	600380		
30594925046	BD10201 MW-49H	Total Radium Calculation	600380		
30594925047	BD10202 FB-5	Total Radium Calculation	600380		
30594925048	BD10203 MW-48H	Total Radium Calculation	600380		
30594925049	BD10204 MW-48H Dup	Total Radium Calculation	600380		
30594925050	BD10205 MW-21	Total Radium Calculation	600380		
30594925051	BD10206 MW-12	Total Radium Calculation	600380		
30594925052	BD10207 MW-13	Total Radium Calculation	600380		
30594925053	BD10208 MW-41H	Total Radium Calculation	600380		
30594925054	BD10209 EB-1	Total Radium Calculation	600380		
30594925055	BD10210 MW-30	Total Radium Calculation	600380		
30594925056	BD10211 MW-29	Total Radium Calculation	600380		
30594925057	BD10212 MW-28	Total Radium Calculation	600380		
30594925058	BD10213 MW-27	Total Radium Calculation	600380		
30594925059	BD10214 MW-26	Total Radium Calculation	600380		
30594925060	BD10215 MW-26 Dup	Total Radium Calculation	600380		
30594925061	BD10216 MW-16	Total Radium Calculation	600386		
30594925062	BD10217 MW-40H	Total Radium Calculation	600386		
30594925063	BD10218 FB-2	Total Radium Calculation	600386		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGREAP\_1410  
Pace Project No.: 30594925

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30594925064	BD10219 MW-34HA	Total Radium Calculation	600386		

### REPORT OF LABORATORY ANALYSIS

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# CHAIN-OF-CUSTODY / Analytical Request Document


The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama Power Company	Report To:	Brooke Catton	Attention:	Brooke Catton
Address:	744 Highway 87 GSC Bldg #6 Calera, AL 35040	Copy To:	Renee Jernigan & Blaine Denton	Company Name:	Alabama Power Co.
Email To:	ibwill@southernco.com	Purchase Order #:	APC87119-0001	Address:	744 Highway 87 GSC Bldg #6 CCR
Phone:	205-684-6101	Project Name:	Plant Greene County Ash Pond	Pace Quote:	Skyler Richmond
Requested Due Date:	28 days	Project Number:	WMWGREAP_1410	Pace Project Manager:	16788
Regulatory Agency:		States / Location:		AL	

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filled	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	# OF CONTAINERS	Preservatives	Y/N	Analyses Test	EPA 9315	EPA 9320	Total Radium Sum	Residual Chlorine (Y/N)	Requested Analysis Filtered (Y/N)	
																		DATE	TIME
1	BD09416	APCO-GC-AP-MW-44H	APCO_GreeneCounty_AshPond				GW	G	5/16/2023	8:28	X		X	X	X				
2	BD09417	APCO-GC-AP-MW-1	APCO_GreeneCounty_AshPond				GW	G	5/16/2023	8:19	X		X	X	X				
3	BD09418	APCO-GC-AP-MW-11	APCO_GreeneCounty_AshPond				GW	G	5/17/2023	13:35	X		X	X	X				
4	BD09419	APCO-GC-AP-MW-23	APCO_GreeneCounty_AshPond				GW	G	5/16/2023	8:38	X		X	X	X				
5	BD09420	APCO-GC-AP-MW-24	APCO_GreeneCounty_AshPond				GW	G	5/16/2023	11:05	X		X	X	X				
6	BD09421	APCO-GC-AP-PZ-4	APCO_GreeneCounty_AshPond				GW	G	5/17/2023	8:53	X		X	X	X				
7	BD09422	APCO-GC-AP-MW-2	APCO_GreeneCounty_AshPond				GW	G	5/17/2023	10:03	X		X	X	X				
8	BD09423	APCO-GC-AP-MW-5	APCO_GreeneCounty_AshPond		x		GW	G	5/17/2023	11:00	X		X	X	X				
9	BD09424	APCO-GC-AP-FB-01	APCO_GreeneCounty_AshPond				GW	G	5/17/2023	11:30	X		X	X	X				
10	BD09425	APCO-GC-AP-MW-17	APCO_GreeneCounty_AshPond				GW	G	5/17/2023	13:30	X		X	X	X				
11	BD09426	APCO-GC-AP-MW-17 Dup	APCO_GreeneCounty_AshPond		x		GW	G	5/17/2023	13:30	X		X	X	X				
12	BD09427	APCO-GC-AP-MW-3	APCO_GreeneCounty_AshPond				GW	G	5/17/2023	14:55	X		X	X	X				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Catton / APC GTL	6/5/2023	9:47	<i>Brooke Catton</i>	6/23/2023	10:20	

**WO#: 30594925**



30594925

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SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	
SIGNATURE of SAMPLER:	
DATE Signed:	

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b>		<b>Section B</b>		<b>Section C</b>	
<b>Required Client Information:</b>		<b>Required Project Information:</b>		<b>Invoice Information:</b>	
Company: Alabama Power Company	Report To: Brooke Caton	Company Name: Brooke Caton	Attention: Brooke Caton	Company Name: Alabama Power Co.	Address: 744 Highway 87 GSC Bldg #8
Address: 744 Highway 87 GSC Bldg #8	Copy To: Renee Jernigan & Blaine Denton	Address: Calera, AL 35040	Purchase Order #: APC87119-0001	Address: 744 Highway 87 GSC Bldg #8	CCR
Email To: tbwill@southernco.com	Project Name: Plant Greene County Ash Pond	Phone: 205-664-6101	Project Number: WMMWGREAP_1410	Pace Quote: SKYLER RICHMOND	States / Location: AL
Requested Due Date: 28 days				Pace Profile #: 16788	Regulatory/Agency

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	Description	Station Name Location_ID	Site Name Facility_ID	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=C-MP)	COLLECTED	Requested Analysis: Filtered (Y/N)		# OF CONTAINERS	Preservatives	Unpreserved	H2SO4	HNO3	Analytes Test	EPA 9315	EPA 9320	Total Radium Sum	Residual Chlorine (Y/N)	Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Interact (Y/N)	
										DATE	TIME															
1	BD09725	MW-38H	APCO-GC-AP-MW-36H	APCO_GreeneCounty_AshPond			GW	G	5/22/2023	12:33	X	1	X				X	X	X							
2	BD09726	MW-18	APCO-GC-AP-MW-18	APCO_GreeneCounty_AshPond			GW	G	5/22/2023	13:33	X	1	X				X	X	X							
3	BD09727	MW-45H	APCO-GC-AP-MW-45H	APCO_GreeneCounty_AshPond			GW	G	5/22/2023	15:00	X	1	X				X	X	X							
4	BD09728	MW-37H	APCO-GC-AP-MW-37H	APCO_GreeneCounty_AshPond			GW	G	5/23/2023	9:10	X	1	X				X	X	X							
5	BD09729	MW-38H	APCO-GC-AP-MW-38H	APCO_GreeneCounty_AshPond			GW	G	5/23/2023	10:40	X	1	X				X	X	X							
6	BD09730	MW-15	APCO-GC-AP-MW-15	APCO_GreeneCounty_AshPond			GW	G	5/23/2023	13:40	X	1	X				X	X	X							
7	BD09731	MW-32	APCO-GC-AP-MW-32	APCO_GreeneCounty_AshPond			GW	G	5/23/2023	14:55	X	3	X				X	X	X							
8	BD09732	MW-33	APCO-GC-AP-MW-33	APCO_GreeneCounty_AshPond			GW	G	5/22/2023	14:55	X	1	X				X	X	X							
9	BD09733	MW-33 Dup	APCO-GC-AP-MW-33	APCO_GreeneCounty_AshPond			GW	G	5/22/2023	15:43	X	1	X				X	X	X							
10	BD09734	MW-31	APCO-GC-AP-MW-31	APCO_GreeneCounty_AshPond			GW	G	5/22/2023	15:43	X	1	X				X	X	X							
11	BD09735	MW-35H	APCO-GC-AP-MW-35H	APCO_GreeneCounty_AshPond			GW	G	5/23/2023	9:27	X	1	X				X	X	X							
12	BD09736	MW-57H	APCO-GC-AP-MW-57H	APCO_GreeneCounty_AshPond			GW	G	5/23/2023	13:42	X	1	X				X	X	X							

<b>ADDITIONAL COMMENTS</b>		<b>RELINQUISHED BY / AFFILIATION</b>		<b>DATE</b>		<b>TIME</b>	
		Brooke Caton / APC GTL		6/5/2023		9:47	
		Steve Warden		6-9-23		10:20	

**W0# : 30594925**

PH: SCR Due Date: 07/10/23

CLIENT: ALABAMA PWR

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_

PRINT Name of SAMPLER: \_\_\_\_\_

SIGNATURE of SAMPLER: \_\_\_\_\_

DATE Signed: \_\_\_\_\_

TEMP in C: \_\_\_\_\_

Received on: \_\_\_\_\_

Ice (Y/N): \_\_\_\_\_

Custody Sealed (Y/N): \_\_\_\_\_

Cooler (Y/N): \_\_\_\_\_

Interact (Y/N): \_\_\_\_\_

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Company:	Alabama Power Company	Report To:	Brooke Catton
Address:	744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To:	Renee Jernigan & Blaine Denton
Email To:	<a href="mailto:tbwill@southernco.com">tbwill@southernco.com</a>	Purchase Order #:	APC87119-0001
Phone:	205-664-6101	Project Name:	Plant Greene County Ash Pond
Requested Due Date:	28 days	Project Number:	VMWGWREAP_1410
Attention:	Brooke Catton	Company Name:	Alabama Power Co.
Address:	744 Highway 87 GSC Bldg #8 CCR	Project Manager:	Skyler Richmond
Pace Profile #:	16788		

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -)	Description	Station Name Location_ID	Site Name Facility_ID	Matrix Spike/Matrix Spike Duplicate	Sample Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Requested Analysis Filtered (Y/N)				Preservatives	EPA 9315	EPA 9320	Total Radium Sum	Residual Chlorine (Y/N)
										DATE	TIME		Y/N	Analyses Test	H2SO4	HN03					
1	BD09737	MW-57H Dup	APCO-GC-AP-MW-57H	APCO_GreeneCounty_AshPond	x			GW	G	5/23/2023	13:42	1	X	X	X	X	X	X			029
2	BD09738	MW-54H	APCO-GC-AP-MW-54H	APCO_GreeneCounty_AshPond	x			GW	G	5/23/2023	14:40	3	X	X	X	X	X	X			030, 031, 032
3	BD09739	FB-3	APCO-GC-AP-FB-03	APCO_GreeneCounty_AshPond				GW	G	5/23/2023	15:05	1	X	X	X	X	X	X			033
4	BD09879	MW-10	APCO-GC-AP-MW-10	APCO_GreeneCounty_AshPond				GW	G	5/24/2023	8:44	1	X	X	X	X	X	X			034
5	BD09880	MW-14	APCO-GC-AP-MW-14	APCO_GreeneCounty_AshPond				GW	G	5/24/2023	10:16	1	X	X	X	X	X	X			035
6	BD09881	MW-39H	APCO-GC-AP-MW-39H	APCO_GreeneCounty_AshPond				GW	G	5/24/2023	11:23	1	X	X	X	X	X	X			036
7	BD09882	MW-43H	APCO-GC-AP-MW-43H	APCO_GreeneCounty_AshPond				GW	G	5/24/2023	13:58	1	X	X	X	X	X	X			037
8	BD10193	FB-4	APCO-GC-AP-FB-04	APCO_GreeneCounty_AshPond				GW	G	5/30/2023	12:30	1	X	X	X	X	X	X			038
9	BD10194	MW-63H	APCO-GC-AP-MW-53H	APCO_GreeneCounty_AshPond				GW	G	5/30/2023	13:46	1	X	X	X	X	X	X			039
10	BD10195	MW-6	APCO-GC-AP-MW-6	APCO_GreeneCounty_AshPond				GW	G	5/30/2023	14:33	1	X	X	X	X	X	X			040
11	BD10196	MW-7	APCO-GC-AP-MW-7	APCO_GreeneCounty_AshPond				GW	G	5/30/2023	15:12	1	X	X	X	X	X	X			041
12	BD10197	MW-8	APCO-GC-AP-MW-8	APCO_GreeneCounty_AshPond				GW	G	5/30/2023	15:48	1	X	X	X	X	X	X			042

RELINQUISHED BY / AFFILIATION: Brooke Catton / APC GTL

DATE: 6/5/2023

TIME: 9:47

ACCEPTED BY / AFFILIATION: *Suey Alexander*

DATE: 6/23/2023

TIME: 10:20

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_  
 PRINT Name of SAMPLER: \_\_\_\_\_  
 SIGNATURE of SAMPLER: \_\_\_\_\_

DATE Signed: \_\_\_\_\_

**W0# : 30594925**

PM: SCR Due Date: 07/10/23

CLIENT: ALABAMA PWR.

**CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Alabama Power Company	Report To: Brooke Caton	Attention: Brooke Caton
Address: 744 Highway 87 GSC Bldg #8	Copy To: Renee Jernigan & Blaine Denton	Company Name: Alabama Power Co.
City: Calera, AL 35040	Purchase Order #: APC87119-0001	Address: 744 Highway 87 GSC Bldg #8
Email To: tbwill@southernco.com	Project Name: Plant Greene County Ash Pond	City: CCR
Phone: 205-664-6101	Project Number: VMWGREAP_1410	State / Location: AL
Requested Due Date: 28 days	Matrix Spike/Matrix Spike Duplicate	Regulatory Agency:
	Sample Duplicate	
	Field Filtered	
	MATRIX CODE (see valid codes to left)	
	SAMPLE TYPE (G-GRAB C-COMP)	
	COLLECTED	
	START	
	DATE	
	TIME	
	# OF CONTAINERS	
	Preservatives	
	HNO3	
	H2SO4	
	Unpreserved	
	Analyses Test	
	EPA 9315	
	EPA 9320	
	Total Radium Sum	
	Residual Chlorine (Y/N)	

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED	START	DATE	TIME	# OF CONTAINERS	Preservatives	Analyses Test	EPA 9315	EPA 9320	Total Radium Sum	Residual Chlorine (Y/N)
1	BD10198	APCO-GC-AP-MW-9	APCO_GreeneCounty_AshPond		GW	G			5/30/2023	16:26	1	X	X	X	X		
2	BD10199	APCO-GC-AP-MW-25	APCO_GreeneCounty_AshPond		GW	G			5/30/2023	17:17	1	X	X	X	X		
3	BD10200	APCO-GC-AP-MW-42H	APCO_GreeneCounty_AshPond		GW	G			5/30/2023	12:32	1	X	X	X	X		
4	BD10201	APCO-GC-AP-MW-49H	APCO_GreeneCounty_AshPond		GW	G			5/30/2023	13:22	1	X	X	X	X		
5	BD10202	APCO-GC-AP-EB-05	APCO_GreeneCounty_AshPond		GW	G			5/30/2023	13:40	1	X	X	X	X		
6	BD10203	APCO-GC-AP-MW-48H	APCO_GreeneCounty_AshPond		GW	G			5/30/2023	14:28	1	X	X	X	X		
7	BD10204	APCO-GC-AP-MW-48H	APCO_GreeneCounty_AshPond	X	GW	G			5/30/2023	14:28	1	X	X	X	X		
8	BD10205	APCO-GC-AP-MW-21	APCO_GreeneCounty_AshPond		GW	G			5/30/2023	15:36	1	X	X	X	X		
9	BD10206	APCO-GC-AP-MW-12	APCO_GreeneCounty_AshPond		GW	G			5/30/2023	16:20	1	X	X	X	X		
10	BD10207	APCO-GC-AP-MW-13	APCO_GreeneCounty_AshPond		GW	G			5/31/2023	8:44	1	X	X	X	X		
11	BD10208	APCO-GC-AP-MW-41H	APCO_GreeneCounty_AshPond		GW	G			5/31/2023	9:55	1	X	X	X	X		
12	BD10209	APCO-GC-AP-EB-01	APCO_GreeneCounty_AshPond		GW	G			5/31/2023	10:45	1	X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Caton / APC GTL	6/5/2023	9:47	<i>Handwritten Signature</i>	6/13/2023	10:20	
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER:							
TEMP in C Received on Custody (Y/N) Sealed Cooler (Y/N) Intact (Y/N)							

**W0# : 30594925**

PM: SCR Due Date: 07/10/23

CLIENT: ALABAMA PMR

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b>	<b>Section B</b>	<b>Section C</b>
Required Client Information: Company: Alabama Power Company Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 Email To: tbwill@southernco.com Phone: 205-664-6101 Fax: Requested Due Date: 28 days	Required Project Information: Report To: Brooke Caton Copy To: Renee Jernigan & Blaine Denton Purchase Order #: APC87119-0001 Project Name: Plant Greene County Ash Pond Project Number: WMWGREAP_1410	Invoice Information: Attention: Brooke Caton Company Name: Alabama Power Co. Address: 744 Highway 87 GSC Bldg #8 Pace Quote: CCR Pace Project Manager: Skyler Richmond Pace Profile #: 16788
Regulatory Agency:		State / Location: AL

ITEM #	DESCRIPTION	STATION NAME LOCATION_ID	SITE NAME FACILITY_ID	SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	FIELD FILTERED	SAMPLE SPIKE/MATRIX SPIKE DUPLICATE	COLLECTED START DATE TIME	# OF CONTAINERS	PRESERVATIVES	ANALYSES TEST	Y/N	REQUESTED ANALYSIS FILTERED (Y/N)	TEMP IN C	RECEIVED ON	ICE (Y/N)	CUSTODY SEALED COOLER (Y/N)	INTACT SAMPLES (Y/N)
1	BD10210	APCO-GC-AP-MW-30	APCO_GreeneCounty_AshPond	G	GW			5/30/2023 12:05	1	X	X	X	X					
2	BD10211	APCO-GC-AP-MW-29	APCO_GreeneCounty_AshPond	G	GW			5/30/2023 13:18	1	X	X	X	X					
3	BD10212	APCO-GC-AP-MW-28	APCO_GreeneCounty_AshPond	G	GW			5/30/2023 14:38	1	X	X	X	X					
4	BD10213	APCO-GC-AP-MW-27	APCO_GreeneCounty_AshPond	G	GW			5/30/2023 15:33	1	X	X	X	X					
5	BD10214	APCO-GC-AP-MW-26	APCO_GreeneCounty_AshPond	G	GW			5/30/2023 16:20	1	X	X	X	X					
6	BD10215	MW-26 Dup	APCO_GreeneCounty_AshPond	G	GW		X	5/30/2023 16:20	1	X	X	X	X					
7	BD10216	MW-16	APCO_GreeneCounty_AshPond	G	GW			5/31/2023 8:40	1	X	X	X	X					
8	BD10217	MW-40H	APCO_GreeneCounty_AshPond	G	GW			5/31/2023 9:40	1	X	X	X	X					
9	BD10218	FB-2	APCO-GC-AP-FB-02	G	GW			5/31/2023 10:40	1	X	X	X	X					
10	BD10219	MW-34HA	APCO_GreeneCounty_AshPond	G	GW			5/31/2023 10:55	1	X	X	X	X					
11																		
12																		

**W0# : 30594925**

PM: SCR Due Date: 07/10/23

CLIENT: ALABAMA PWR

SAMPLER NAME AND SIGNATURE: *James Alexander*

PRINT Name of SAMPLER: James Alexander

SIGNATURE of SAMPLER: *James Alexander*

DATE Signed: 6-23-2023

DC#\_Title: ENV-FRM-GBUR-0088 v04\_Sample Condition Upon Receipt-  
 Pittsburgh

**WO# : 30594925**

Effective Date: 02/03/2023

PM: SCR Due Date: 07/10/23

CLIENT: ALABAMA PWR



Client Name: Alabama Power

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking Number: 63688465 3804

Examined By	<u>PS</u>
Labeled By	<u>PS</u>
Temped By	

Custody Seal on Cooler/Box Present:  Yes  No      Seals Intact:  Yes  No

Thermometer Used: \_\_\_\_\_ Type of Ice: Wet Blue (None)

Cooler Temperature: Observed Temp \_\_\_\_\_ °C      Correction Factor: \_\_\_\_\_ °C      Final Temp: \_\_\_\_\_ °C  
 Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot#	D.P.D. Residual Chlorine Lot #
				<u>10P3121</u>	
Chain of Custody Present	/			1.	
Chain of Custody Filled Out: -Were client corrections present on COC	/			2.	
Chain of Custody Relinquished	/			3.	
Sampler Name & Signature on COC:		/		4.	
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	/			5.	
Samples Arrived within Hold Time:	/			6.	
Short Hold Time Analysis (<72hr remaining):		/		7.	
Rush Turn Around Time Requested:		/		8.	
Sufficient Volume:	/			9.	
Correct Containers Used: -Pace Containers Used	/			10.	
Containers Intact:	/			11.	
Orthophosphate field filtered:			/	12.	
Hex Cr Aqueous samples field filtered:			/	13.	
Organic Samples checked for dechlorination			/	14.	
Filtered volume received for dissolved tests:			/	15.	
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	/			16.	
All containers meet method preservation requirements:	/			Initial when completed <u>PS</u>	Date/Time of Preservation
				Lot# of added Preservative	
8260C/D: Headspace in VOA Vials (> 6mm)			/	17.	
624.1: Headspace in VOA Vials (0mm)			/	18.	
Trip Blank Present:			/	Trip blank custody seal present? YES or NO	
Rad Samples Screened <0.5 mrem/hr.	/			Initial when completed <u>PS</u>	Date: <u>6/9/23</u> Survey Meter SN: <u>1563</u>

Comments:  
 \* cooler 3/3 arrived 6/8/23 at 10:20      \* Samples BD09879 - BD09882 arrived 6/5/23  
 tracking: 6368 8465 3540      9:49

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.  
 PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

# Quality Control Sample Performance Assessment



**Analyst** *Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-226  
Analyst: SLC  
Date: 6/14/2023  
Worklist: 73728  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2887867
MB concentration:	0.026
MB 2 Sigma CSU:	0.107
MB MDC:	0.263
MB Numerical Performance Indicator:	0.47
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	
LCSD (Y or N)?	Y
Count Date:	7/5/2023
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.015
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.500
Target Conc. (pCi/L, g, F):	4.802
Uncertainty (Calculated):	0.058
Result (pCi/L, g, F):	5.283
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.980
Numerical Performance Indicator:	1.88
Percent Recovery:	119.58%
Status vs Numerical Indicator:	Pass
Status vs Recovery:	N/A
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS73728
Duplicate Sample I.D.:	LCS73728
Sample Result (pCi/L, g, F):	5.743
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.980
Sample Duplicate Result (pCi/L, g, F):	5.283
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.910
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.674
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.97%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	Sample I.D.:	5/17/2023	
Sample MS I.D.:	Sample MS I.D.:	30594925008	
Sample MSD I.D.:	Sample MSD I.D.:	30594925009	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	Spike I.D.:	30594925010	
Spike Volume Used in MS (mL):	MS Target Conc. (pCi/L, g, F):	19-033	
Spike Volume Used in MSD (mL):	MSD Aliquot (L, g, F):	24.017	
MS Aliquot (L, g, F):	MSD Target Conc. (pCi/L, g, F):	0.20	
MS Target Conc. (pCi/L, g, F):	MSD Spike Uncertainty (calculated):	0.20	
MSD Target Conc. (pCi/L, g, F):	MSD Spike Uncertainty (calculated):	0.208	
MS Spike Uncertainty (calculated):	Sample Result:	23.071	
MSD Spike Uncertainty (calculated):	Sample Result 2 Sigma CSU (pCi/L, g, F):	0.209	
Sample Result:	Sample Matrix Spike Result:	22.988	
Sample Result 2 Sigma CSU (pCi/L, g, F):	Matrix Spike Duplicate Result:	0.277	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	MS Numerical Performance Indicator:	0.276	
MS Numerical Performance Indicator:	MS Percent Recovery:	0.792	
MS Percent Recovery:	MSD Percent Recovery:	0.373	
MS Status vs Numerical Indicator:	MS Status vs Numerical Indicator:	26.335	
MS Status vs Recovery:	MS Status vs Recovery:	4.203	
MS/MSD Upper % Recovery Limits:	MS/MSD Upper % Recovery Limits:	28.212	
MS/MSD Lower % Recovery Limits:	MS/MSD Lower % Recovery Limits:	4.484	
		1.146	
		1.927	
		110.72%	
		119.28%	
		Pass	
		Pass	
		N/A	
		N/A	
		125%	
		75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30594925008
Sample MS I.D.:	30594925009
Sample MSD I.D.:	30594925010
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	26.335
Sample Matrix Spike Duplicate Result:	4.203
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	28.212
Duplicate Numerical Performance Indicator:	4.484
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	-0.598
MS/MSD Duplicate Status vs Numerical Indicator:	7.44%
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	N/A
	25%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*Handwritten signature/initials*

*Handwritten date: VAN 7/10/23*

# Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: JJS1  
Date: 6/15/2023  
Worklist: 73761  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2888877
MB concentration:	0.496
M/B 2 Sigma CSU:	0.362
MB MDC:	0.701
MB Numerical Performance Indicator:	2.69
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS73761	N
Count Date:	6/22/2023	LCS73761
Spike I.D.:	23-040	
Decay Corrected Spike Concentration (pCi/mL):	39.470	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.809	
Target Conc. (pCi/L, g, F):	4.880	
Uncertainty (Calculated):	0.239	
Result (pCi/L, g, F):	4.537	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.055	
Numerical Performance Indicator:	-0.62	
Percent Recovery:	92.98%	
Status vs Numerical Indicator:	N/A	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

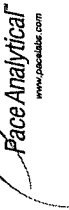
*Handwritten signature and date: 6/25/23*

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/22/2023	
Sample I.D.:	30592896004	
Sample MS I.D.:	30592896005	
Sample MSD I.D.:	30592896006	
Spike I.D.:	23-040	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.874	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.806	
MS Target Conc. (pCi/L, g, F):	9.895	
MSD Aliquot (L, g, F):	0.807	
MSD Target Conc. (pCi/L, g, F):	9.880	
MS Spike Uncertainty (calculated):	0.485	
MSD Spike Uncertainty (calculated):	0.484	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.074	
Sample Matrix Spike Result:	0.385	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	11.116	
Sample Matrix Spike Duplicate Result:	2.219	
Sample Matrix Spike Duplicate Result:	9.045	
MS Numerical Performance Indicator:	1.817	
MSD Numerical Performance Indicator:	0.977	
MS Percent Recovery:	-0.928	
MSD Percent Recovery:	111.60%	
MS Status vs Numerical Indicator:	90.80%	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30592896004
Sample MS I.D.:	30592896005
Sample MSD I.D.:	30592896006
Sample Matrix Spike Result:	11.116
Sample Matrix Spike Duplicate Result:	2.219
Sample Matrix Spike Duplicate Result:	9.045
Sample Matrix Spike Duplicate Result:	1.817
Duplicate Numerical Performance Indicator:	1.416
Duplicate Numerical Performance Indicator:	20.55%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	Pass
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%



# Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: ZPC  
Date: 6/21/2023  
Worklist: 73762  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2888878
MB concentration:	0.552
M/B 2 Sigma CSU:	0.380
MB MDC:	0.728
MB Numerical Performance Indicator:	2.84
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	Count Date:	LCSD73762
Spike I.D.:	6/23/2023	
Decay Corrected Spike Concentration (pCi/mL):	23-040	
Volume Used (mL):	39.456	
Aliquot Volume (L, g, F):	0.10	
Target Conc. (pCi/L, g, F):	0.803	
Uncertainty (Calculated):	4.911	
Result (pCi/L, g, F):	0.241	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	5.465	
Numerical Performance Indicator:	1.206	
Percent Recovery:	0.88	
Status vs Numerical Indicator:	111.30%	
Upper % Recovery Limits:	N/A	
Lower % Recovery Limits:	Pass	
	135%	
	60%	

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*Handwritten:* VAC  
6/26/23

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/17/2023	
Sample I.D.:	30594925008	
Sample MS I.D.:	30594925009	
Sample MSD I.D.:	30594925010	
Spike I.D.:	23-040	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.942	
Spike Volume Used in MS (mL):	0.20	
MS Aliquot (L, g, F):	0.20	
MS Target Conc. (pCi/L, g, F):	0.806	
MSD Aliquot (L, g, F):	9.915	
MSD Target Conc. (pCi/L, g, F):	0.804	
MS Spike Uncertainty (calculated):	9.941	
MSD Spike Uncertainty (calculated):	0.486	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.461	
Sample Matrix Spike Result:	0.400	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	13.037	
Sample Matrix Spike Duplicate Result:	2.557	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	14.035	
MS Numerical Performance Indicator:	2.754	
MSD Numerical Performance Indicator:	1.980	
MS Percent Recovery:	2.520	
MSD Percent Recovery:	126.83%	
MS Status vs Numerical Indicator:	136.55%	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	Warning	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	MSD High****	
MS/MSD Lower % Recovery Limits:	135%	
	60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30594925008
Sample MS I.D.:	30594925009
Sample MSD I.D.:	30594925010
Sample Matrix Spike Result:	13.037
Sample Matrix Spike Duplicate Result:	2.557
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	14.035
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.754
Duplicate Numerical Performance Indicator:	-0.521
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries) MS/MSD Duplicate RPD:	7.38%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: VAL  
Date: 6/21/2023  
Worklist: 73763  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2888879
MB concentration:	0.565
MB 2 Sigma CSU:	0.333
MB MDC:	0.602
MB Numerical Performance Indicator:	3.33
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD73763	LCSD73763
Count Date:	6/27/2023
Spike I.D.:	23-040
Decay Corrected Spike Concentration (pCi/mL):	39.403
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.805
Target Conc. (pCi/L, g, F):	4.892
Uncertainty (Calculated):	0.240
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	3.490
Numerical Performance Indicator:	0.827
Percent Recovery:	71.34%
Status vs Numerical Indicator:	N/A
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		5/22/2023	
Sample MS I.D.:		30594925021	
Sample MSD I.D.:		30594925022	
Spike I.D.:		23-040	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		39.874	
Spike Volume Used in MS (mL):		0.20	
MS Aliquot (L, g, F):		0.802	
MS Target Conc. (pCi/L, g, F):		9.948	
MSD Aliquot (L, g, F):		0.805	
MSD Target Conc. (pCi/L, g, F):		9.907	
MS Spike Uncertainty (calculated):		0.487	
MSD Spike Uncertainty (calculated):		0.485	
Sample Result:		0.193	
Sample Result 2 Sigma CSU (pCi/L, g, F):		0.297	
Sample Matrix Spike Result:		7.418	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		1.533	
Sample Matrix Spike Duplicate Result:		10.814	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		2.154	
MS Numerical Performance Indicator:		-3.264	
MSD Numerical Performance Indicator:		0.629	
MS Percent Recovery:		72.63%	
MSD Percent Recovery:		107.21%	
MS Status vs Numerical Indicator:		Fail****	
MSD Status vs Numerical Indicator:		Pass	
MS Status vs Recovery:		Pass	
MSD Status vs Recovery:		Pass	
MS/MSD Upper % Recovery Limits:		135%	
MS/MSD Lower % Recovery Limits:		60%	

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30594925021
Sample MS I.D.:	30594925022
Sample MSD I.D.:	30594925023
Sample Matrix Spike Result:	7.418
Sample Matrix Spike Duplicate Result:	1.533
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	10.814
Sample Matrix Spike Duplicate Result:	2.154
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	-2.518
Duplicate Numerical Performance Indicator:	38.47%
Duplicate Numerical Performance Indicator:	Warning
MS/MSD Duplicate Status vs Numerical Indicator:	Fail***
MS/MSD Duplicate Status vs RPD:	36%
% RPD Limit:	

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

\*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.

\*\*\*If either QC-criteria-passes, this batch is acceptable. The matrix spike duplicate result indicates a possible bias for this sample only and may not be applicable to any other samples in this analytical batch.

*VAL*  
*6/28/23*  
*MS passes to recovery criteria*  
*MS activity < MDC, Pass*

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226  
Analyst: SLC  
Date: 6/14/2023  
Worklist: 73729  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2887875
MB concentration:	0.055
MB 2 Sigma CSU:	0.103
MB MDC:	0.237
MB Numerical Performance Indicator:	1.04
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment		LCS (Y or N)?	Y
		LCS73729	7/10/2023
Count Date:	7/10/2023		
Spike I.D.:	19-033		
Decay Corrected Spike Concentration (pCi/mL):	24.015		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.503		
Target Conc. (pCi/L, g, F):	4.779		
Uncertainty (Calculated):	0.057		
Result (pCi/L, g, F):	5.420		
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.927		
Numerical Performance Indicator:	1.35		
Percent Recovery:	113.41%		
Status vs Numerical Indicator:	Pass		
Status vs Recovery:	N/A		
Upper % Recovery Limits:	125%		
Lower % Recovery Limits:	75%		

Duplicate Sample Assessment	
Sample I.D.:	LCS73729
Duplicate Sample I.D.:	LCS73729
Sample Result (pCi/L, g, F):	5.420
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.927
Sample Duplicate Result (pCi/L, g, F):	4.919
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.850
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.781
Duplicate (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	8.09%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/22/2023		
Sample I.D.:	30594925021		
Sample MS I.D.:	30594925022		
Sample MSD I.D.:	30594925023		
Spike I.D.:	19-033		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.017		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.20		
MS Aliquot (L, g, F):	0.212		
MS Target Conc. (pCi/L, g, F):	22.664		
MSD Aliquot (L, g, F):	0.211		
MSD Target Conc. (pCi/L, g, F):	22.746		
MS Spike Uncertainty (calculated):	0.272		
MSD Spike Uncertainty (calculated):	0.273		
Sample Result:	0.409		
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.305		
Sample Matrix Spike Result:	25.693		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	4.086		
Sample Matrix Spike Duplicate Result:	26.110		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.159		
MS Numerical Performance Indicator:	1.251		
MSD Numerical Performance Indicator:	1.385		
MS Percent Recovery:	111.56%		
MSD Percent Recovery:	112.99%		
MS Status vs Numerical Indicator:	Pass		
MSD Status vs Numerical Indicator:	Pass		
MS Status vs Recovery:	N/A		
MSD Status vs Recovery:	N/A		
MS/MSD Upper % Recovery Limits:	125%		
MS/MSD Lower % Recovery Limits:	75%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30594925021
Sample MS I.D.:	30594925022
Sample MSD I.D.:	30594925023
Spike I.D.:	19-033
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	4.086
Sample Matrix Spike Duplicate Result:	26.110
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.159
Duplicate Numerical Performance Indicator:	-0.140
Duplicate (Based on the Percent Recoveries) MS/MSD Duplicate RPD:	1.27%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

WT  
7-10-23  
VAN 7/10/23

# Quality Control Sample Performance Assessment



*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-226  
Analyst: SLC  
Date: 6/14/2023  
Worklist: 73730  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2887876
MB concentration:	0.185
MB 2 Sigma CSU:	0.120
MB MDC:	0.197
MB Numerical Performance Indicator:	3.01
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment		LCSD (Y or NJ)?	Y
Count Date:	7/10/2023	LCSD73730	7/10/2023
Spike I.D.:	19-033		19-033
Decay Corrected Spike Concentration (pCi/mL):	24.015		24.015
Volume Used (mL):	0.10		0.10
Aliquot Volume (L, g, F):	0.503		0.509
Target Conc. (pCi/L, g, F):	4.776		4.714
Uncertainty (Calculated):	0.057		0.057
Result (pCi/L, g, F):	5.157		5.292
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	0.861		0.905
Numerical Performance Indicator:	0.85		1.25
Percent Recovery:	107.98%		112.27%
Status vs Numerical Indicator:	Pass		Pass
Upper % Recovery Limits:	N/A		N/A
Lower % Recovery Limits:	75%		75%

Duplicate Sample Assessment		LCSD73730	LCSD73730
Sample I.D.:	LCSD73730		
Duplicate Sample I.D.:	LCSD73730		
Sample Result (pCi/L, g, F):	5.157		5.157
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.881		0.881
Sample Duplicate Result (pCi/L, g, F):	5.292		5.292
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.905		0.905
Are sample and/or duplicate results below RL?	NO		NO
Duplicate Numerical Performance Indicator:	-0.210		-0.210
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.90%		3.90%
Duplicate Status vs Numerical Indicator:	Pass		Pass
Duplicate Status vs RPD:	N/A		N/A
% RPD Limit:	25%		25%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

**Comments:**

\*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.

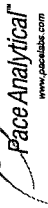
ET  
7-10-23

LAM 7/10/23

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/23/2023		
Sample I.D.:	30594925030		
Sample MS I.D.:	30594925031		
Sample MSD I.D.:	30594925032		
Spike I.D.:	19-033		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.017		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.20		
MS Aliquot (L, g, F):	0.205		
MS Target Conc. (pCi/L, g, F):	23.427		
MSD Aliquot (L, g, F):	0.205		
MSD Target Conc. (pCi/L, g, F):	23.446		
MS Spike Uncertainty (calculated):	0.281		
MSD Spike Uncertainty (calculated):	0.281		
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.892		
Sample Matrix Spike Result:	0.398		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	26.156		
Sample Matrix Spike Duplicate Result:	4.156		
Sample Matrix Spike Duplicate Result:	28.386		
MS Numerical Performance Indicator:	4.493		
MSD Numerical Performance Indicator:	0.860		
MS Percent Recovery:	1.756		
MSD Percent Recovery:	107.84%		
MS Status vs Numerical Indicator:	117.27%		
MSD Status vs Numerical Indicator:	Pass		
MS Status vs Recovery:	Pass		
MSD Status vs Recovery:	N/A		
MS/MSD Upper % Recovery Limits:	N/A		
MS/MSD Lower % Recovery Limits:	125%		
	75%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30594925030
Sample MS I.D.:	30594925031
Sample MSD I.D.:	30594925032
Sample Matrix Spike Result:	26.156
Sample Matrix Spike Duplicate Result:	4.156
Sample Matrix Spike Duplicate Result:	28.386
Sample Matrix Spike Duplicate Result:	4.493
Duplicate Numerical Performance Indicator:	-0.714
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	8.38%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: JJS1  
Date: 6/21/2023  
Worklist: 73764  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2898880
MB concentration:	0.487
MB 2 Sigma CSU:	0.365
MB MDC:	0.712
MB Numerical Performance Indicator:	Warning
MB Status vs Numerical Indicator:	2.62
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD73764	LCSD73764
Count Date:	6/27/2023
Spike I.D.:	23-040
Decay Corrected Spike Concentration (pCi/mL):	39.404
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.804
Target Conc. (pCi/L, g, F):	4.900
Uncertainty (Calculated):	0.240
Result (pCi/L, g, F):	3.811
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.881
Numerical Performance Indicator:	-2.34
Percent Recovery:	77.78%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/23/2023		
Sample I.D.:	30594925030		
Sample MS I.D.:	30594925031		
Sample MSD I.D.:	30594925032		
Spike I.D.:	23-040		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.861		
Spike Volume Used in MSD (mL):	0.20		
Spike Volume Used in MS (mL):	0.20		
MS Aliquot (L, g, F):	0.805		
MS Target Conc. (pCi/L, g, F):	9.903		
MSD Aliquot (L, g, F):	0.801		
MSD Target Conc. (pCi/L, g, F):	9.952		
MS Spike Uncertainty (calculated):	0.485		
MSD Spike Uncertainty (calculated):	0.488		
Sample Result:	1.063		
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.422		
Sample Matrix Spike Result:	10.559		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.087		
Sample Matrix Spike Duplicate Result:	10.086		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.987		
MS Numerical Performance Indicator:	-0.365		
MSD Numerical Performance Indicator:	-0.871		
MS Percent Recovery:	95.89%		
MSD Percent Recovery:	90.67%		
MS Status vs Numerical Indicator:	Pass		
MSD Status vs Numerical Indicator:	Pass		
MS Status vs Recovery:	Pass		
MSD Status vs Recovery:	Pass		
MS/MSD Upper % Recovery Limits:	135%		
MS/MSD Lower % Recovery Limits:	60%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30594925030
Sample MS I.D.:	30594925031
Sample MSD I.D.:	30594925032
Sample Matrix Spike Result:	10.559
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.087
Sample Matrix Spike Duplicate Result:	10.086
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.987
Duplicate Numerical Performance Indicator:	0.322
Duplicate Numerical Performance Indicator:	5.60%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	Pass
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*Handwritten signature*

*Handwritten: VAL 6/28/23*

# Quality Control Sample Performance Assessment



*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-226  
Analyst: SLC  
Date: 6/15/2023  
Worklist: 73800  
Matrix: DW

Method Blank Assessment	
MB Sample ID	2889068
MB concentration:	0.149
M/B Counting Uncertainty:	0.110
MB MDC:	0.197
MB Numerical Performance Indicator:	2.65
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCST73800	LCSD73800
Count Date:	7/10/2023	7/10/2023
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.015	24.015
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.503
Target Conc. (pCi/L, g, F):	4.757	4.775
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.817	5.173
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.469	0.508
Numerical Performance Indicator:	101.28%	1.53
Percent Recovery:	N/A	N/A
Status vs Numerical Indicator:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	LCST73800	LCSD73800
Sample I.D.:	LCST73800	LCSD73800
Duplicate Sample I.D.:	4.817	4.817
Sample Result Counting Uncertainty (pCi/L, g, F):	0.469	0.469
Sample Duplicate Result (pCi/L, g, F):	5.173	5.173
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.508	0.508
Are sample and/or duplicate results below RL?	NO	NO
Duplicate Numerical Performance Indicator:	-1.009	-1.009
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	6.75%	6.75%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Sample Matrix Spike Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

654  
7-10-23

Amr/10/23



July 05, 2023

Brooke Caton  
Alabama Power  
744 Highway 87  
Calera, AL 35040

RE: Project: WMWGREAP\_1411  
Pace Project No.: 30592896

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on June 05, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Skyler C. Richmond  
skyler.richmond@pacelabs.com  
(724)850-5600  
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power  
Renee Jernigan, Alabama Power



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: WMWGREAP\_1411  
Pace Project No.: 30592896

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### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
ANABISO/IEC 17025:2017 Rad Cert#: L24170  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 2950  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA010  
Louisiana DEQ/TNI Certification #: 04086  
Maine Certification #: 2023021  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572023-03  
New Hampshire/TNI Certification #: 297622  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-015  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: TN02867  
Texas/TNI Certification #: T104704188-22-18  
Utah/TNI Certification #: PA014572223-14  
USDA Soil Permit #: 525-23-67-77263  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: WMWGREAP\_1411  
Pace Project No.: 30592896

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30592896001	BD09699 / MW-62HO	Water	05/22/23 12:25	06/05/23 09:50
30592896002	BD09700 / MW-63HO	Water	05/22/23 13:21	06/05/23 09:50
30592896003	BD09701 / FB-1	Water	05/22/23 13:40	06/05/23 09:50
30592896004	BD09702 / MW-47HO	Water	05/22/23 14:22	06/05/23 09:50
30592896005	BD09702 / MW-47HO MS	Water	05/22/23 14:22	06/05/23 09:50
30592896006	BD09702 / MW-47HO MSD	Water	05/22/23 14:22	06/05/23 09:50
30592896007	BD09703 / EB-1	Water	05/22/23 15:00	06/05/23 09:50
30592896008	BD09704 / MW-60HO	Water	05/23/23 08:42	06/05/23 09:50
30592896009	BD09705 / MW-60HO Dup	Water	05/23/23 08:42	06/05/23 09:50
30592896010	BD09706 / MW-61HO	Water	05/23/23 10:18	06/05/23 09:50
30592896011	BD09707 / MW-59HO	Water	05/23/23 11:17	06/05/23 09:50
30592896012	BD09708 / MW-50HO	Water	05/23/23 12:09	06/05/23 09:50
30592896013	BD09709 / MW-55HO	Water	05/23/23 13:20	06/05/23 09:50

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: WMWGREAP\_1411  
 Pace Project No.: 30592896

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30592896001	BD09699 / MW-62HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30592896002	BD09700 / MW-63HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30592896003	BD09701 / FB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30592896004	BD09702 / MW-47HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30592896005	BD09702 / MW-47HO MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30592896006	BD09702 / MW-47HO MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30592896007	BD09703 / EB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30592896008	BD09704 / MW-60HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30592896009	BD09705 / MW-60HO Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30592896010	BD09706 / MW-61HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30592896011	BD09707 / MW-59HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30592896012	BD09708 / MW-50HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30592896013	BD09709 / MW-55HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

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### SAMPLE ANALYTE COUNT

Project: WMWGREAP\_1411  
Pace Project No.: 30592896

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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
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PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1411  
Pace Project No.: 30592896

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**Method:** EPA 9315  
**Description:** 9315 Total Radium  
**Client:** Alabama Power  
**Date:** July 05, 2023

### General Information:

13 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1411  
Pace Project No.: 30592896

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**Method:** EPA 9320  
**Description:** 9320 Radium 228  
**Client:** Alabama Power  
**Date:** July 05, 2023

### General Information:

13 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1411  
Pace Project No.: 30592896

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**Method:** Total Radium Calculation  
**Description:** Total Radium 228+226  
**Client:** Alabama Power  
**Date:** July 05, 2023

### General Information:

11 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1411  
 Pace Project No.: 30592896

**Sample: BD09699 / MW-62HO**      **Lab ID: 30592896001**      Collected: 05/22/23 12:25      Received: 06/05/23 09:50      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.469U ± 0.305 (0.517)</b> <b>C:93% T:NA</b>	pCi/L	07/03/23 09:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.593U ± 0.348 (0.633)</b> <b>C:84% T:85%</b>	pCi/L	06/22/23 11:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.06U ± 0.653 (1.15)</b>	pCi/L	07/03/23 13:25	7440-14-4	

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1411  
 Pace Project No.: 30592896

**Sample: BD09700 / MW-63HO**      **Lab ID: 30592896002**      Collected: 05/22/23 13:21      Received: 06/05/23 09:50      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.323U ± 0.273 (0.511)</b> <b>C:85% T:NA</b>	pCi/L	07/03/23 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.245U ± 0.309 (0.652)</b> <b>C:83% T:82%</b>	pCi/L	06/22/23 11:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.568U ± 0.582 (1.16)</b>	pCi/L	07/03/23 13:25	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1411  
 Pace Project No.: 30592896

**Sample: BD09701 / FB-1**      **Lab ID: 30592896003**      Collected: 05/22/23 13:40      Received: 06/05/23 09:50      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.294U ± 0.276 (0.544)</b> <b>C:87% T:NA</b>	pCi/L	07/03/23 09:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>-0.0184U ± 0.333 (0.783)</b> <b>C:83% T:74%</b>	pCi/L	06/22/23 11:25	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.294U ± 0.609 (1.33)</b>	pCi/L	07/03/23 13:25	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1411  
 Pace Project No.: 30592896

**Sample: BD09702 / MW-47HO**      **Lab ID: 30592896004**      Collected: 05/22/23 14:22      Received: 06/05/23 09:50      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0800U ± 0.206 (0.494)</b> <b>C:87% T:NA</b>	pCi/L	07/03/23 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0737U ± 0.385 (0.876)</b> <b>C:86% T:72%</b>	pCi/L	06/22/23 11:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.154U ± 0.591 (1.37)</b>	pCi/L	07/03/23 13:25	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1411  
 Pace Project No.: 30592896

**Sample: BD09702 / MW-47HO MS**    **Lab ID: 30592896005**    Collected: 05/22/23 14:22    Received: 06/05/23 09:50    Matrix: Water  
 PWS:    Site ID:    Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>114.81 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	07/03/23 09:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>111.60 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/22/23 11:26	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1411  
 Pace Project No.: 30592896

**Sample: BD09702 / MW-47HO MSD**    **Lab ID: 30592896006**    Collected: 05/22/23 14:22    Received: 06/05/23 09:50    Matrix: Water  
 PWS:    Site ID:    Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>110.99 %REC 3.38RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	07/03/23 09:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>90.80 %REC 20.55RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/22/23 11:26	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1411  
 Pace Project No.: 30592896

**Sample: BD09703 / EB-1**      **Lab ID: 30592896007**      Collected: 05/22/23 15:00      Received: 06/05/23 09:50      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.288U ± 0.232 (0.381)</b> <b>C:81% T:NA</b>	pCi/L	07/03/23 09:04	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.180U ± 0.360 (0.795)</b> <b>C:83% T:74%</b>	pCi/L	06/22/23 11:26	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.468U ± 0.592 (1.18)</b>	pCi/L	07/03/23 13:25	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1411  
 Pace Project No.: 30592896

**Sample: BD09704 / MW-60HO**      **Lab ID: 30592896008**      Collected: 05/23/23 08:42      Received: 06/05/23 09:50      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.283U ± 0.243 (0.432)</b> <b>C:86% T:NA</b>	pCi/L	07/03/23 09:05	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.282U ± 0.397 (0.850)</b> <b>C:81% T:66%</b>	pCi/L	06/22/23 11:26	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.565U ± 0.640 (1.28)</b>	pCi/L	07/03/23 13:25	7440-14-4	

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1411  
 Pace Project No.: 30592896

**Sample: BD09705 / MW-60HO Dup**    **Lab ID: 30592896009**    Collected: 05/23/23 08:42    Received: 06/05/23 09:50    Matrix: Water  
 PWS:    Site ID:    Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>-0.0345U ± 0.229 (0.638)</b> <b>C:75% T:NA</b>	pCi/L	07/03/23 09:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.169U ± 0.341 (0.753)</b> <b>C:83% T:73%</b>	pCi/L	06/22/23 11:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.169U ± 0.570 (1.39)</b>	pCi/L	07/03/23 13:25	7440-14-4	

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1411  
 Pace Project No.: 30592896

**Sample: BD09706 / MW-61HO**      **Lab ID: 30592896010**      Collected: 05/23/23 10:18      Received: 06/05/23 09:50      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.352U ± 0.334 (0.660)</b> <b>C:73% T:NA</b>	pCi/L	07/03/23 09:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.655U ± 0.391 (0.716)</b> <b>C:84% T:76%</b>	pCi/L	06/22/23 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.01U ± 0.725 (1.38)</b>	pCi/L	07/03/23 13:25	7440-14-4	

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1411  
 Pace Project No.: 30592896

**Sample: BD09707 / MW-59HO**      **Lab ID: 30592896011**      Collected: 05/23/23 11:17      Received: 06/05/23 09:50      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.409U ± 0.349 (0.651)</b> <b>C:68% T:NA</b>	pCi/L	07/03/23 09:05	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.519U ± 0.338 (0.632)</b> <b>C:87% T:79%</b>	pCi/L	06/22/23 11:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.928U ± 0.687 (1.28)</b>	pCi/L	07/03/23 13:25	7440-14-4	

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1411  
 Pace Project No.: 30592896

**Sample: BD09708 / MW-50HO**      **Lab ID: 30592896012**      Collected: 05/23/23 12:09      Received: 06/05/23 09:50      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.270U ± 0.237 (0.432)</b> <b>C:93% T:NA</b>	pCi/L	07/03/23 09:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.403U ± 0.341 (0.676)</b> <b>C:85% T:73%</b>	pCi/L	06/22/23 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.673U ± 0.578 (1.11)</b>	pCi/L	07/03/23 13:25	7440-14-4	

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1411  
 Pace Project No.: 30592896

**Sample: BD09709 / MW-55HO**      **Lab ID: 30592896013**      Collected: 05/23/23 13:20      Received: 06/05/23 09:50      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.269U ± 0.278 (0.564)</b> <b>C:87% T:NA</b>	pCi/L	07/03/23 09:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.284U ± 0.283 (0.579)</b> <b>C:87% T:84%</b>	pCi/L	06/22/23 11:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.553U ± 0.561 (1.14)</b>	pCi/L	07/03/23 13:25	7440-14-4	

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1411  
 Pace Project No.: 30592896

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QC Batch:	593534	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30592896001, 30592896002, 30592896003, 30592896004, 30592896005, 30592896006, 30592896007, 30592896008, 30592896009, 30592896010, 30592896011, 30592896012, 30592896013

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METHOD BLANK: 2884474 Matrix: Water

Associated Lab Samples: 30592896001, 30592896002, 30592896003, 30592896004, 30592896005, 30592896006, 30592896007, 30592896008, 30592896009, 30592896010, 30592896011, 30592896012, 30592896013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0561 ± 0.110 (0.254) C:87% T:NA	pCi/L	07/03/23 09:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1411  
 Pace Project No.: 30592896

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QC Batch:	594366	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30592896001, 30592896002, 30592896003, 30592896004, 30592896005, 30592896006, 30592896007, 30592896008, 30592896009, 30592896010, 30592896011, 30592896012, 30592896013

---

METHOD BLANK: 2888877 Matrix: Water

Associated Lab Samples: 30592896001, 30592896002, 30592896003, 30592896004, 30592896005, 30592896006, 30592896007, 30592896008, 30592896009, 30592896010, 30592896011, 30592896012, 30592896013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.496 ± 0.362 (0.701) C:82% T:80%	pCi/L	06/22/23 11:25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: WMWGREAP\_1411  
Pace Project No.: 30592896

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: WMWGREAP\_1411  
 Pace Project No.: 30592896

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30592896001	BD09699 / MW-62HO	EPA 9315	593534		
30592896002	BD09700 / MW-63HO	EPA 9315	593534		
30592896003	BD09701 / FB-1	EPA 9315	593534		
30592896004	BD09702 / MW-47HO	EPA 9315	593534		
30592896005	BD09702 / MW-47HO MS	EPA 9315	593534		
30592896006	BD09702 / MW-47HO MSD	EPA 9315	593534		
30592896007	BD09703 / EB-1	EPA 9315	593534		
30592896008	BD09704 / MW-60HO	EPA 9315	593534		
30592896009	BD09705 / MW-60HO Dup	EPA 9315	593534		
30592896010	BD09706 / MW-61HO	EPA 9315	593534		
30592896011	BD09707 / MW-59HO	EPA 9315	593534		
30592896012	BD09708 / MW-50HO	EPA 9315	593534		
30592896013	BD09709 / MW-55HO	EPA 9315	593534		
30592896001	BD09699 / MW-62HO	EPA 9320	594366		
30592896002	BD09700 / MW-63HO	EPA 9320	594366		
30592896003	BD09701 / FB-1	EPA 9320	594366		
30592896004	BD09702 / MW-47HO	EPA 9320	594366		
30592896005	BD09702 / MW-47HO MS	EPA 9320	594366		
30592896006	BD09702 / MW-47HO MSD	EPA 9320	594366		
30592896007	BD09703 / EB-1	EPA 9320	594366		
30592896008	BD09704 / MW-60HO	EPA 9320	594366		
30592896009	BD09705 / MW-60HO Dup	EPA 9320	594366		
30592896010	BD09706 / MW-61HO	EPA 9320	594366		
30592896011	BD09707 / MW-59HO	EPA 9320	594366		
30592896012	BD09708 / MW-50HO	EPA 9320	594366		
30592896013	BD09709 / MW-55HO	EPA 9320	594366		
30592896001	BD09699 / MW-62HO	Total Radium Calculation	599099		
30592896002	BD09700 / MW-63HO	Total Radium Calculation	599099		
30592896003	BD09701 / FB-1	Total Radium Calculation	599099		
30592896004	BD09702 / MW-47HO	Total Radium Calculation	599099		
30592896007	BD09703 / EB-1	Total Radium Calculation	599099		
30592896008	BD09704 / MW-60HO	Total Radium Calculation	599099		
30592896009	BD09705 / MW-60HO Dup	Total Radium Calculation	599099		
30592896010	BD09706 / MW-61HO	Total Radium Calculation	599099		
30592896011	BD09707 / MW-59HO	Total Radium Calculation	599099		
30592896012	BD09708 / MW-50HO	Total Radium Calculation	599099		
30592896013	BD09709 / MW-55HO	Total Radium Calculation	599099		

**REPORT OF LABORATORY ANALYSIS**

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# CHAIN-OF-CUSTODY / Analytical Request Document


The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Alabama Power Company	Report To: Brooke Catton	Company Name: Brooke Catton	Attention: Alabama Power Co.	Company Name: Alabama Power Co.	Regulatory Agency:
Address: 744 Highway 87 GSC Bldg #8	Copy To: Renee Jernigan & Blaine Denton	Address: 744 Highway 87 GSC Bldg #8	Address: 744 Highway 87 GSC Bldg #8	Address: 744 Highway 87 GSC Bldg #8	State / Location: AL
Calera, AL 35040	Purchase Order #: APC87119-0001	Project Name: Plant Greene County Ash Pond	CCR	CCR	
Email To: tbwill@southernco.com	Project Number: WMMGAREP_1411	Pace Project Manager: Skylar Richmond	16788		
Phone: 205-664-6101	Requested Due Date: 28 days				

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE TIME	# OF CONTAINERS	Preservatives H2SO4 HNO3 Unpreserved	Y/N	Requested Analysis Filtered (Y/N)			Residual Chlorine (Y/N)
													EPA 9315	EPA 9320	Total Radium Sum	
1	BD09699 MW-62HO	APCO-GC-AP-MW-62HO	APCO_GreeneCounty_AshPond				GW G	G	5/22/2023 12:25	1	X		X	X		001
2	BD09700 MW-63HO	APCO-GC-AP-MW-63HO	APCO_GreeneCounty_AshPond				GW G	G	5/22/2023 13:21	1	X		X	X		002
3	BD09701 FB-1	APCO-GC-AP-FB-01	APCO_GreeneCounty_AshPond				GW G	G	5/22/2023 13:40	1	X		X	X		003
4	BD09702 MW-47HO	APCO-GC-AP-MW-47HO	APCO_GreeneCounty_AshPond	x			GW G	G	5/22/2023 14:22	3	X		X	X		004,005,006
5	BD09703 EB-1	APCO-GC-AP-EB-01	APCO_GreeneCounty_AshPond				GW G	G	5/22/2023 15:00	1	X		X	X		007
6	BD09704 MW-60HO	APCO-GC-AP-MW-60HO	APCO_GreeneCounty_AshPond				GW G	G	5/23/2023 8:42	1	X		X	X		008
7	BD09705 MW-60HO Dup	APCO-GC-AP-MW-60HO	APCO_GreeneCounty_AshPond	x			GW G	G	5/23/2023 8:42	1	X		X	X		009
8	BD09706 MW-61HO	APCO-GC-AP-MW-61HO	APCO_GreeneCounty_AshPond				GW G	G	5/23/2023 10:18	1	X		X	X		010
9	BD09707 MW-59HO	APCO-GC-AP-MW-59HO	APCO_GreeneCounty_AshPond				GW G	G	5/23/2023 11:17	1	X		X	X		011
10	BD09708 MW-50HO	APCO-GC-AP-MW-50HO	APCO_GreeneCounty_AshPond				GW G	G	5/23/2023 12:09	1	X		X	X		012
11	BD09709 MW-55HO	APCO-GC-AP-MW-55HO	APCO_GreeneCounty_AshPond				GW G	G	5/23/2023 13:20	1	X		X	X		013
12																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Catton/ APC GTL	5/31/2023	11:36	<i>Renee Jernigan</i>	6-5-23	9:50	

**WO# : 30592896**



30592896

SAMPLER NAME AND SIGNATURE  
PRINT Name of SAMPLER:  
SIGNATURE of SAMPLER:

DATE Signed:





DC#\_Title: ENV-FRM-GBUR-0088 v04\_Sample Condition Upon Receipt-  
Pittsburgh

WO#: 30592896

Effective Date: 02/03/2023

PM: SCR Due Date: 07/03/23

Client Name: Alabama Power

CLIENT: ALABAMA PWR

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking Number: 6368 8469 3540

Examined By	PS
Labeled By	PS
Temped By	PS

Custody Seal on Cooler/Box Present:  Yes  No Seals Intact:  Yes  No

Thermometer Used: \_\_\_\_\_ Type of Ice: Wet Blue None

Cooler Temperature: Observed Temp \_\_\_\_\_ °C Correction Factor: \_\_\_\_\_ °C Final Temp: \_\_\_\_\_ °C  
Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot#	D.P.D. Residual Chlorine Lot #
				1003121	_____
Chain of Custody Present	/			1.	
Chain of Custody Filled Out: -Were client corrections present on COC	/			2.	
Chain of Custody Relinquished	/			3.	
Sampler Name & Signature on COC:	/			4.	
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	/			5.	
Samples Arrived within Hold Time:	/			6.	
Short Hold Time Analysis (<72hr remaining):		/		7.	
Rush Turn Around Time Requested:		/		8.	
Sufficient Volume:	/			9.	
Correct Containers Used: -Pace Containers Used	/			10.	
Containers Intact:	/			11.	
Orthophosphate field filtered:			/	12.	
Hex Cr Aqueous samples field filtered:			/	13.	
Organic Samples checked for dechlorination			/	14.	
Filtered volume received for dissolved tests:			/	15.	
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	/			16.	
All containers meet method preservation requirements:	/			Initial when completed <u>PS</u>	Date/Time of Preservation
				Lot# of added Preservative	
8260C/D: Headspace in VOA Vials (> 6mm)			/	17.	
624.1: Headspace in VOA Vials (0mm)			/	18.	
Trip Blank Present:			/	Trip blank custody seal present? YES or NO	
Rad Samples Screened <0.5 mrem/hr.	/			Initial when completed <u>PS</u>	Date: <u>6/5/23</u> Survey Meter SN: <u>1563</u>
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Client

Site

Plant Greene Country Ash pond

Page 1 of 2

Profile Number

16788

Notes

Sample Line Item	Amber Glass				Plastic				Vials				Other																					
	AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WG9U	WG9V	WG9W	WG9X	WG9Y	WG9Z	ZPLC	GJN	GJN	GJN	GJN	GN	BG1U			
001						/																												
002						/																												
003						/																												
004						/																												
005						/																												
006						/																												
007						/																												
008						/																												
009						/																												
010						/																												
011						/																												
012						/																												

WO#: 30592896

PM: SCR Due Date: 07/03/23  
 CLIENT: ALABAMA PWR

Container Codes

Glass	
GJN	1 Gallon Jug with HNO3
AG5U	100mL amber glass unpreserved
AG5T	100mL amber glass Na Thiosulfate
GJN	1 Gallon Jug
AG1S	1L amber glass H2SO4
AG1H	1L amber glass HCl
AG1T	1L amber glass NA Thiosulfate
BG1U	1L clear glass unpreserved
AG3S	250mL amber glass H2SO4
AG2U	250mL amber glass unpreserved
GN	General

Plastic/Misc.	
GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	120mL colliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250mL plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved
EZ1	5g Encore
VOAK	Kit/Volatile Solid
I	Wipe/Swab
ZPLC	Stiploc Bag
WT	Water
SL	Solid
OL	Non-Aq Liquid
WP	Wipe

# Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: JJS1  
Date: 6/15/2023  
Worklist: 73761  
Matrix: WT

**Method Blank Assessment**

MB Sample ID: 2888877  
 MB concentration: 0.496  
 M/B 2 Sigma CSU: 0.362  
 MB MDC: 0.701  
 MB Numerical Performance Indicator: 2.69  
 MB Status vs Numerical Indicator: Warning  
 MB Status vs. MDC: Pass

**Laboratory Control Sample Assessment**

LCSID (Y or N)?	N
LCS73761	LCS73761

Count Date: 6/22/2023  
 Spike I.D.: 23-040  
 Decay Corrected Spike Concentration (pCi/mL): 39.470  
 Volume Used (mL): 0.10  
 Aliquot Volume (L, g, F): 0.809  
 Target Conc. (pCi/L, g, F): 4.880  
 Uncertainty (Calculated): 0.239  
 Result (pCi/L, g, F): 4.537  
 LCS/LCSD 2 Sigma CSU (pCi/L, g, F): 1.055  
 Numerical Performance Indicator: -0.62  
 Percent Recovery: 92.98%  
 Status vs Numerical Indicator: N/A  
 Status vs Recovery: Pass  
 Upper % Recovery Limits: 135%  
 Lower % Recovery Limits: 60%

**Duplicate Sample Assessment**

Sample I.D.:  
 Duplicate Sample I.D.:  
 Sample Result (pCi/L, g, F):  
 Sample Result 2 Sigma CSU (pCi/L, g, F):  
 Sample Duplicate Result (pCi/L, g, F):  
 Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):  
 Are sample and/or duplicate results below RL?  
 Duplicate Numerical Performance Indicator:  
 Duplicate RPD:  
 Duplicate Status vs Numerical Indicator:  
 Duplicate Status vs RPD:  
 % RPD Limit:

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

See Below ##

**Sample Matrix Spike Control Assessment**

MS/MSD 1	MS/MSD 2
5/22/2023	
30592896004	
30592896005	
30592896006	
23-040	
39.874	
0.20	
0.20	
0.806	
9.895	
0.807	
9.880	
0.485	
0.484	
0.074	
0.385	
11.116	
2.219	
9.045	
1.817	
0.977	
-0.928	
111.60%	
90.80%	
Pass	
Pass	
Pass	
Pass	
135%	
60%	

MS/MSD Decay Corrected Spike Concentration (pCi/mL):  
 Spike Volume Used in MS (mL):  
 Spike Volume Used in MSD (mL):  
 MS Aliquot (L, g, F):  
 MS Target Conc. (pCi/L, g, F):  
 MSD Aliquot (L, g, F):  
 MSD Target Conc. (pCi/L, g, F):  
 MS Spike Uncertainty (calculated):  
 MSD Spike Uncertainty (calculated):  
 Sample Result 2 Sigma CSU (pCi/L, g, F):  
 Sample Matrix Spike Result:  
 Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):  
 Sample Matrix Spike Duplicate Result:  
 Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):  
 MS Numerical Performance Indicator:  
 MSD Numerical Performance Indicator:  
 MS Percent Recovery:  
 MSD Percent Recovery:  
 MS Status vs Numerical Indicator:  
 MSD Status vs Numerical Indicator:  
 MS Status vs Recovery:  
 MSD Status vs Recovery:  
 MS/MSD Upper % Recovery Limits:  
 MS/MSD Lower % Recovery Limits:

**Matrix Spike/Matrix Spike Duplicate Sample Assessment**

30592896004	
30592896005	
30592896006	
11.116	
2.219	
9.045	
1.817	
1.416	
20.55%	
Pass	
Pass	
36%	

Sample I.D.:  
 Sample MS I.D.:  
 Sample MSD I.D.:  
 Sample Matrix Spike Result:  
 Sample Matrix Spike Duplicate Result:  
 Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):  
 Sample Matrix Spike Duplicate Result:  
 Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):  
 Duplicate Numerical Performance Indicator:  
 Duplicate Numerical Performance Indicator:  
 Duplicate RPD:  
 Duplicate Status vs Numerical Indicator:  
 Duplicate Status vs RPD:  
 % RPD Limit:

(Based on the Percent Recoveries) MS/MSD Duplicate RPD:  
 MS/MSD Duplicate Status vs Numerical Indicator:  
 MS/MSD Duplicate Status vs RPD:  
 % RPD Limit:

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*Handwritten signature and date: 6/25/23*

*Handwritten signature and date: VFL 6/25/23*

# Quality Control Sample Performance Assessment



Analyst *Must Manually Enter All Fields Highlighted in Yellow.*

Test: Re-226  
Analyst: SLC  
Date: 6/12/2023  
Worklist: 73675  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2884474
MB concentration:	0.056
M/B 2 Sigma CSU:	0.110
MB MDC:	0.254
MB Numerical Performance Indicator:	1.00
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
Count Date:		7/3/2023	7/3/2023
Spike I.D.:		19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):		24.015	24.015
Volume Used (mL):		0.10	0.10
Aliquot Volume (L, g, F):		0.503	0.509
Target Conc. (pCi/L, g, F):		4.771	4.714
Uncertainty (Calculated):		0.057	0.057
Result (pCi/L, g, F):		5.309	5.118
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):		0.926	0.887
Numerical Performance Indicator:		1.14	0.89
Percent Recovery:		111.27%	108.57%
Status vs Numerical Indicator:		Pass	Pass
Status vs Recovery:		N/A	N/A
Upper % Recovery Limits:		125%	125%
Lower % Recovery Limits:		75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS73675
Duplicate Sample I.D.:	LCS73675
Sample Result (pCi/L, g, F):	5.309
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.926
Sample Duplicate Result (pCi/L, g, F):	5.118
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.887
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.291
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.45%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		5/22/2023	
Sample I.D.:		30592896004	
Sample MS I.D.:		30592896005	
Sample MSD I.D.:		30592896006	
Spike I.D.:		19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		24.017	
Spike Volume Used in MS (mL):		0.20	
Spike Volume Used in MSD (mL):		0.20	
MS Aliquot (L, g, F):		0.206	
MS Target Conc. (pCi/L, g, F):		23.340	
MSD Aliquot (L, g, F):		0.207	
MSD Target Conc. (pCi/L, g, F):		23.234	
MS Spike Uncertainty (calculated):		0.280	
MSD Spike Uncertainty (calculated):		0.279	
Sample Result:		0.080	
Sample Result 2 Sigma CSU (pCi/L, g, F):		0.206	
Sample Matrix Spike Result:		26.877	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		4.272	
Sample Matrix Spike Duplicate Result:		25.867	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		4.151	
MS Numerical Performance Indicator:		1.581	
MSD Numerical Performance Indicator:		1.201	
MS Percent Recovery:		114.81%	
MSD Percent Recovery:		110.99%	
MS Status vs Numerical Indicator:		Pass	
MSD Status vs Numerical Indicator:		Pass	
MS Status vs Recovery:		N/A	
MSD Status vs Recovery:		N/A	
MS/MSD Upper % Recovery Limits:		125%	
MS/MSD Lower % Recovery Limits:		75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30592896004
Sample MS I.D.:	30592896005
Sample MSD I.D.:	30592896006
Sample Matrix Spike Result:	26.877
Sample Matrix Spike Duplicate Result:	25.867
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.151
Duplicate Numerical Performance Indicator:	0.332
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	3.38%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

UAM 7/3/23

SLC 7/3/23

June 27, 2023

Brooke Caton  
Alabama Power  
744 Highway 87  
Calera, AL 35040

RE: Project: WMWGREAP\_1412  
Pace Project No.: 30590556

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on May 25, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Skyler C. Richmond  
skyler.richmond@pacelabs.com  
(724)850-5600  
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power  
Renee Jernigan, Alabama Power



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: WMWGREAP\_1412  
Pace Project No.: 30590556

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### **Pace Analytical Services Pennsylvania**

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
ANABISO/IEC 17025:2017 Rad Cert#: L24170  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 2950  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA010  
Louisiana DEQ/TNI Certification #: 04086  
Maine Certification #: 2023021  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572023-03  
New Hampshire/TNI Certification #: 297622  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-015  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: TN02867  
Texas/TNI Certification #: T104704188-22-18  
Utah/TNI Certification #: PA014572223-14  
USDA Soil Permit #: 525-23-67-77263  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: WMWGREAP\_1412

Pace Project No.: 30590556

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30590556001	BD09433 MW-64HO	Water	05/17/23 08:56	05/25/23 09:44
30590556002	BD09433 MW-64HO MS	Water	05/17/23 08:56	05/25/23 09:44
30590556003	BD09433 MW-64HO MSD	Water	05/17/23 08:56	05/25/23 09:44
30590556004	BD09434 MW-46HO	Water	05/17/23 10:08	05/25/23 09:44
30590556005	BD09435 MW-46HO Dup	Water	05/17/23 10:08	05/25/23 09:44
30590556006	BD09436 FB-1	Water	05/17/23 10:35	05/25/23 09:44
30590556007	BD09437 EB-1	Water	05/17/23 10:40	05/25/23 09:44

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: WMWGREAP\_1412  
Pace Project No.: 30590556

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30590556001	BD09433 MW-64HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30590556002	BD09433 MW-64HO MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30590556003	BD09433 MW-64HO MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30590556004	BD09434 MW-46HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30590556005	BD09435 MW-46HO Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30590556006	BD09436 FB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30590556007	BD09437 EB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1412  
Pace Project No.: 30590556

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**Method:** EPA 9315  
**Description:** 9315 Total Radium  
**Client:** Alabama Power  
**Date:** June 27, 2023

**General Information:**

7 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1412

Pace Project No.: 30590556

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**Method:** EPA 9320

**Description:** 9320 Radium 228

**Client:** Alabama Power

**Date:** June 27, 2023

**General Information:**

7 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1412

Pace Project No.: 30590556

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**Method:** Total Radium Calculation

**Description:** Total Radium 228+226

**Client:** Alabama Power

**Date:** June 27, 2023

**General Information:**

5 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP\_1412

Pace Project No.: 30590556

**Sample: BD09433 MW-64HO**      **Lab ID: 30590556001**      Collected: 05/17/23 08:56      Received: 05/25/23 09:44      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.206U ± 0.253 (0.521)</b> <b>C:88% T:NA</b>	pCi/L	06/07/23 10:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.335U ± 0.356 (0.740)</b> <b>C:81% T:83%</b>	pCi/L	06/07/23 14:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.541U ± 0.609 (1.26)</b>	pCi/L	06/22/23 07:58	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP\_1412

Pace Project No.: 30590556

**Sample: BD09433 MW-64HO MS**      **Lab ID: 30590556002**      Collected: 05/17/23 08:56      Received: 05/25/23 09:44      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>96.90 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/07/23 10:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>62.15 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/07/23 14:34	15262-20-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP\_1412

Pace Project No.: 30590556

**Sample: BD09433 MW-64HO MSD**    **Lab ID: 30590556003**    Collected: 05/17/23 08:56    Received: 05/25/23 09:44    Matrix: Water  
PWS:    Site ID:    Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>105.99 %REC 8.96RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/07/23 08:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>79.30 %REC 24.25RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/07/23 14:35	15262-20-1	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP\_1412  
Pace Project No.: 30590556

**Sample: BD09434 MW-46HO**      **Lab ID: 30590556004**      Collected: 05/17/23 10:08      Received: 05/25/23 09:44      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.232U ± 0.327 (0.708)</b> <b>C:72% T:NA</b>	pCi/L	06/07/23 08:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.409U ± 0.354 (0.709)</b> <b>C:79% T:88%</b>	pCi/L	06/07/23 14:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.641U ± 0.681 (1.42)</b>	pCi/L	06/22/23 07:58	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP\_1412

Pace Project No.: 30590556

**Sample: BD09435 MW-46HO Dup**    **Lab ID: 30590556005**    Collected: 05/17/23 10:08    Received: 05/25/23 09:44    Matrix: Water  
PWS:    Site ID:    Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.271U ± 0.293 (0.584)</b> <b>C:78% T:NA</b>	pCi/L	06/07/23 08:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.267U ± 0.376 (0.807)</b> <b>C:79% T:83%</b>	pCi/L	06/07/23 14:35	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.538U ± 0.669 (1.39)</b>	pCi/L	06/22/23 07:58	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP\_1412

Pace Project No.: 30590556

**Sample: BD09436 FB-1**      **Lab ID: 30590556006**      Collected: 05/17/23 10:35      Received: 05/25/23 09:44      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.400U ± 0.322 (0.588)</b> <b>C:86% T:NA</b>	pCi/L	06/07/23 08:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>-0.120U ± 0.304 (0.741)</b> <b>C:80% T:92%</b>	pCi/L	06/07/23 14:35	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.400U ± 0.626 (1.33)</b>	pCi/L	06/22/23 07:58	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP\_1412

Pace Project No.: 30590556

**Sample: BD09437 EB-1**      **Lab ID: 30590556007**      Collected: 05/17/23 10:40      Received: 05/25/23 09:44      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.557U ± 0.387 (0.642)</b> <b>C:72% T:NA</b>	pCi/L	06/07/23 08:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.0349U ± 0.299 (0.692)</b> <b>C:81% T:88%</b>	pCi/L	06/07/23 14:35	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.592U ± 0.686 (1.33)</b>	pCi/L	06/22/23 07:58	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP\_1412

Pace Project No.: 30590556

QC Batch: 590769

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30590556001, 30590556002, 30590556003, 30590556004, 30590556005, 30590556006, 30590556007

METHOD BLANK: 2870866

Matrix: Water

Associated Lab Samples: 30590556001, 30590556002, 30590556003, 30590556004, 30590556005, 30590556006, 30590556007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0762 ± 0.0959 (0.196) C:81% T:NA	pCi/L	06/07/23 10:02	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP\_1412

Pace Project No.: 30590556

QC Batch: 591323

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30590556001, 30590556002, 30590556003, 30590556004, 30590556005, 30590556006, 30590556007

METHOD BLANK: 2873483

Matrix: Water

Associated Lab Samples: 30590556001, 30590556002, 30590556003, 30590556004, 30590556005, 30590556006, 30590556007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.523 ± 0.334 (0.623) C:81% T:90%	pCi/L	06/07/23 11:27	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: WMWGREAP\_1412  
Pace Project No.: 30590556

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGREAP\_1412  
Pace Project No.: 30590556

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30590556001	BD09433 MW-64HO	EPA 9315	590769		
30590556002	BD09433 MW-64HO MS	EPA 9315	590769		
30590556003	BD09433 MW-64HO MSD	EPA 9315	590769		
30590556004	BD09434 MW-46HO	EPA 9315	590769		
30590556005	BD09435 MW-46HO Dup	EPA 9315	590769		
30590556006	BD09436 FB-1	EPA 9315	590769		
30590556007	BD09437 EB-1	EPA 9315	590769		
30590556001	BD09433 MW-64HO	EPA 9320	591323		
30590556002	BD09433 MW-64HO MS	EPA 9320	591323		
30590556003	BD09433 MW-64HO MSD	EPA 9320	591323		
30590556004	BD09434 MW-46HO	EPA 9320	591323		
30590556005	BD09435 MW-46HO Dup	EPA 9320	591323		
30590556006	BD09436 FB-1	EPA 9320	591323		
30590556007	BD09437 EB-1	EPA 9320	591323		
30590556001	BD09433 MW-64HO	Total Radium Calculation	596750		
30590556004	BD09434 MW-46HO	Total Radium Calculation	596750		
30590556005	BD09435 MW-46HO Dup	Total Radium Calculation	596750		
30590556006	BD09436 FB-1	Total Radium Calculation	596750		
30590556007	BD09437 EB-1	Total Radium Calculation	596750		

### REPORT OF LABORATORY ANALYSIS

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# WO#: 30590556

## CHAIN-OF-CU

The Chain-of-Custody



curately.

**Section A** Required Client Information: **Section B** Required Project Information:

Company: Alabama Power Company **Attention:** Brooke Catton  
 Address: 744 Highway 87 GSC Bldg #8 **Company Name:** Alabama Power Co.  
 Calera, AL 35040 **Address:** 744 Highway 87 GSC Bldg #8  
**Email To:** fbwill@southernco.com **Pace Quote:** CCR  
**Phone:** 205-664-6101 **Fax:** **Pace Project Manager:** Skyler Richmond  
**Requested Due Date:** 28 days **Project Number:** VMWGREAP\_1412 **Pace Profile #:** 16788

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Matrix Spike/Matrix Spike Duplicate	Field Filled	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	# OF CONTAINERS	Preservatives			Analyses Test	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
									Unpreserved	H2SO4	HNO3								
1	BD09433	APCO-GC-AP-MW-64HO	APCO_GreeneCounty_AshPond	x		GW G	START DATE TIME	3											
2	BD09434	APCO-GC-AP-MW-46HO	APCO_GreeneCounty_AshPond			GW G	8:56	1											
3	BD09435	APCO-GC-AP-MW-46HO	APCO_GreeneCounty_AshPond	x		GW G	10:06	1											
4	BD09436	APCO-GC-AP-FB-01	APCO_GreeneCounty_AshPond			GW G	10:06	1											
5	BD09437	APCO-GC-AP-EB-01	APCO_GreeneCounty_AshPond			GW G	10:35	1											
6							10:40	1											
7																			
8																			
9																			
10																			
11																			
12																			

**ADDITIONAL COMMENTS**

RELINQUISHED BY / AFFILIATION: Brooke Catton / APC GTL DATE: 5/22/2023 TIME: 8:19

ACCEPTED BY / AFFILIATION: *James [Signature]* DATE: 5/24/2023 TIME: 10:40

**TEMP in C**

Received on (Y/N):  N  Y

Ice (Y/N):  N  Y

Custody (Y/N):  N  Y

Sealed Cooler (Y/N):  N  Y

Intact Samples (Y/N):  N  Y

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Dallas Gentry  
 SIGNATURE of SAMPLER: *[Signature]*  
 DATE Signed: 5/24/2023

DC#\_ Title: ENV-FRM-GBUR-0088 v04\_Sample Condition Upon Receipt-  
Pittsburgh

Effective Date: 02/03/2023



Client Name: Alabama Power Project #: 30590556

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking Number: 6368 8465 2495

Examined By	<u>TH</u>
Labeled By	<u>TH</u>
Temped By	<u>✓</u>

Custody Seal on Cooler/Box Present:  Yes  No Seals Intact:  Yes  No

Thermometer Used: — Type of Ice: Wet Blue (None)

Cooler Temperature: Observed Temp — °C Correction Factor: — °C Final Temp: — °C  
Temp should be above freezing to 6°C

Comments:				pH paper Lot#	D.P.D. Residual Chlorine Lot #
	Yes	No	NA	<u>100312</u>	<u>—</u>
Chain of Custody Present	<u>J</u>			1.	
Chain of Custody Filled Out: -Were client corrections present on COC	<u>J</u>	<u>J</u>		2.	
Chain of Custody Relinquished	<u>J</u>			3.	
Sampler Name & Signature on COC:		<u>J</u>		4.	
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	<u>J</u>			5.	
Samples Arrived within Hold Time:	<u>J</u>			6.	
Short Hold Time Analysis (<72hr remaining):		<u>J</u>		7.	
Rush Turn Around Time Requested:		<u>J</u>		8.	
Sufficient Volume:	<u>J</u>			9.	
Correct Containers Used: -Pace Containers Used	<u>J</u>			10.	
Containers Intact:	<u>J</u>			11.	
Orthophosphate field filtered:			<u>J</u>	12.	
Hex Cr Aqueous samples field filtered:			<u>J</u>	13.	
Organic Samples checked for dechlorination			<u>J</u>	14.	
Filtered volume received for dissolved tests:			<u>J</u>	15.	
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	<u>J</u>			16.	
All containers meet method preservation requirements:	<u>J</u>			Initial when completed <u>TH</u>	Date/Time of Preservation
				Lot# of added Preservative	
8260C/D: Headspace in VOA Vials (> 6mm)			<u>J</u>	17.	
624.1: Headspace in VOA Vials (0mm)			<u>J</u>	18.	
Trip Blank Present:			<u>J</u>	Trip blank custody seal present? YES or NO	
Rad Samples Screened <0.5 mrem/hr.	<u>J</u>			Initial when completed <u>TH</u>	Date: <u>5/25/23</u> Survey Meter SN: <u>1583</u>
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.  
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.



30590556

DC# Title: ENV-FRM-GBUR-0072 v02\_Sample Container Count Offshore Projects  
Effective Date: 1/11/2023

Client Plant Greene County Ash Pond Profile Number 16788 Page 1 of 1  
Site Notes

Sample Line Item	Amber Glass			Plastic								Vials						Other																
	AG1H	AG3S	AG3U	AG5U	AG5T	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WG9U	WG9V	WG9W	WG9X	WG9Y	WG9Z	WG1U	WG1V	WG1W	WG1X	WG1Y	WG1Z	GN	BG1U			
1																																		
2																																		
3																																		
4																																		
5																																		
6																																		
7																																		

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulfate
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WG9U	4oz wide jar unpreserved
AG1T	1L amber glass NA Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
AG3S	250mL amber glass H2SO4	WG9U	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved	GN	General

Plastic/Misc.

GJN	1 gallon cubitainer	EZI	5g Encore
AG5U	1/2 gallon cubitainer	VOAK	Kit Volatile Solid
AG5T	120mL coliform Na Thiosulfate	I	Wipe/Swab
GJN	1L plastic HNO3	ZPLC	Siploc Bag
AG1S	1L plastic unpreserved	WT	Water
AG1H	250mL plastic H2SO4	SL	Solid
AG1T	250mL plastic HNO3	OL	Non-Aq Liquid
BG1U	250mL plastic unpreserved	WP	Wipe
AG3S	250mL plastic NaOH		
AG3U	500mL plastic H2SO4		
AG3J	500mL plastic unpreserved		

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226  
Analyst: SLC  
Date: 5/30/2023  
Worklist: 73406  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2870866
MB concentration:	0.076
M/B 2 Sigma CSU:	0.096
MB MDC:	0.196
MB Numerical Performance Indicator:	1.56
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD73406	LCSD73406
Count Date:	6/7/2023
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.016
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.510
Target Conc. (pCi/L, g, F):	4.709
Uncertainty (Calculated):	0.057
Result (pCi/L, g, F):	5.058
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.907
Numerical Performance Indicator:	0.75
Percent Recovery:	107.42%
Status vs Numerical Indicator:	Pass
Status vs Recovery:	N/A
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	See Below ##
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/15/2023	5/17/2023
Sample I.D.:	30590562001	30590556001
Sample MS I.D.:	30590562002	30590556002
Sample MSD I.D.:	30590562003	30590556003
Spike I.D.:	19-033	19-033
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.017	24.017
Spike Volume Used in MS (mL):	0.20	0.20
Spike Volume Used in MSD (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.207	0.204
MS Target Conc. (pCi/L, g, F):	23.207	23.596
MSD Aliquot (L, g, F):	0.211	0.206
MSD Target Conc. (pCi/L, g, F):	22.810	23.339
MS Spike Uncertainty (calculated):	0.278	0.283
MSD Spike Uncertainty (calculated):	0.274	0.280
Sample Result:	0.605	0.206
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.359	0.253
Sample Matrix Spike Result:	27.138	23.070
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	4.455	3.820
Sample Matrix Spike Duplicate Result:	24.099	24.942
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.959	4.094
MS Numerical Performance Indicator:	1.456	-0.374
MSD Numerical Performance Indicator:	0.336	0.666
MS Percent Recovery:	114.33%	96.90%
MSD Percent Recovery:	103.00%	105.99%
MS Status vs Numerical Indicator:	Pass	Pass
MSD Status vs Numerical Indicator:	Pass	Pass
MS Status vs Recovery:	N/A	N/A
MSD Status vs Recovery:	N/A	N/A
MS/MSD Upper % Recovery Limits:	125%	125%
MS/MSD Lower % Recovery Limits:	75%	75%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30590562001
Sample MS I.D.:	30590562002
Sample MSD I.D.:	30590562003
Matrix Spike Result:	27.138
Sample Matrix Spike Result:	4.455
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	24.099
Sample Matrix Spike Duplicate Result:	3.959
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.999
Duplicate Numerical Performance Indicator:	10.43%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	Pass
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

ET  
6-7-23

LA 6/7/23

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: ZPC  
Date: 6/2/2023  
Worklist: 73453  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2873483
MB concentration:	0.523
M/B 2 Sigma CSU:	0.334
MB MDC:	0.623
MB Numerical Performance Indicator:	3.07
MB Status vs. Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
	LCS (Y or N)?
Count Date:	6/7/2023
Spike I.D.:	LCS073453
Decay Corrected Spike Concentration (pCi/mL):	32.326
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.808
Target Conc. (pCi/L, g, F):	4.001
Uncertainty (Calculated):	0.196
Result (pCi/L, g, F):	2.860
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.741
Numerical Performance Indicator:	-2.92
Percent Recovery:	71.49%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Sample Matrix Spike Control Assessment	
Sample Collection Date:	MS/MSD 1 5/15/2023
Sample I.D.:	30590556001
Sample MS I.D.:	305905562002
Sample MSD I.D.:	305905562003
Spike I.D.:	22-040
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	32.572
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	0.20
MS Aliquot (L, g, F):	0.807
MS Target Conc. (pCi/L, g, F):	8.074
MSD Aliquot (L, g, F):	0.807
MSD Target Conc. (pCi/L, g, F):	8.069
MSD Spike Uncertainty (calculated):	0.396
MSD Spike Uncertainty (calculated):	0.395
Sample Result:	0.467
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.320
Sample Matrix Spike Result:	8.746
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.762
Sample Matrix Spike Duplicate Result:	8.058
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.645
MS Numerical Performance Indicator:	0.220
MSD Numerical Performance Indicator:	-0.544
MS Percent Recovery:	102.55%
MSD Percent Recovery:	94.08%
MS Status vs Numerical Indicator:	Pass
MSD Status vs Numerical Indicator:	Pass
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	Pass
MS/MSD Upper % Recovery Limits:	135%
MS/MSD Lower % Recovery Limits:	60%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	305905562001
Sample MS I.D.:	305905562002
Sample MSD I.D.:	305905562003
Sample Matrix Spike Result:	8.746
Sample Matrix Spike Duplicate Result:	1.762
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	8.058
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.645
Duplicate Numerical Performance Indicator:	0.560
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries) MS/MSD Duplicate RPD:	8.61%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:  
\*if the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepared.

*Handwritten signature*

*Handwritten note: MIB activity < MDC, Pass*

*Handwritten note: SLC 6/8/23*

June 27, 2023

Brooke Caton  
Alabama Power  
744 Highway 87  
Calera, AL 35040

RE: Project: WMWGREAP\_1413  
Pace Project No.: 30590562

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on May 24, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Skyler C. Richmond  
skyler.richmond@pacelabs.com  
(724)850-5600  
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power  
Renee Jernigan, Alabama Power



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: WMWGREAP\_1413  
Pace Project No.: 30590562

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### **Pace Analytical Services Pennsylvania**

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
ANABISO/IEC 17025:2017 Rad Cert#: L24170  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 2950  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA010  
Louisiana DEQ/TNI Certification #: 04086  
Maine Certification #: 2023021  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572023-03  
New Hampshire/TNI Certification #: 297622  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-015  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: TN02867  
Texas/TNI Certification #: T104704188-22-18  
Utah/TNI Certification #: PA014572223-14  
USDA Soil Permit #: 525-23-67-77263  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: WMWGREAP\_1413  
Pace Project No.: 30590562

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30590562001	BD09442 MW-52HO	Water	05/15/23 14:10	05/24/23 10:40
30590562002	BD09442 MW-52HO MS	Water	05/15/23 14:10	05/24/23 10:40
30590562003	BD09442 MW-52HO MSD	Water	05/15/23 14:10	05/24/23 10:40
30590562004	BD09443 MW-52HO Dup	Water	05/15/23 14:10	05/24/23 10:40
30590562005	BD09444 EB-1	Water	05/15/23 14:45	05/24/23 10:40
30590562006	BD09445 FB-1	Water	05/15/23 15:00	05/24/23 10:40

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: WMWGREAP\_1413  
Pace Project No.: 30590562

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30590562001	BD09442 MW-52HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30590562002	BD09442 MW-52HO MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30590562003	BD09442 MW-52HO MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30590562004	BD09443 MW-52HO Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30590562005	BD09444 EB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30590562006	BD09445 FB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1413

Pace Project No.: 30590562

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**Method:** EPA 9315

**Description:** 9315 Total Radium

**Client:** Alabama Power

**Date:** June 27, 2023

**General Information:**

6 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1413

Pace Project No.: 30590562

---

**Method:** EPA 9320

**Description:** 9320 Radium 228

**Client:** Alabama Power

**Date:** June 27, 2023

**General Information:**

6 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1413  
Pace Project No.: 30590562

---

**Method:** Total Radium Calculation  
**Description:** Total Radium 228+226  
**Client:** Alabama Power  
**Date:** June 27, 2023

**General Information:**

4 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP\_1413

Pace Project No.: 30590562

**Sample: BD09442 MW-52HO**      **Lab ID: 30590562001**      Collected: 05/15/23 14:10      Received: 05/24/23 10:40      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.605 ± 0.359 (0.543)</b> <b>C:86% T:NA</b>	pCi/L	06/07/23 10:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.467U ± 0.320 (0.612)</b> <b>C:89% T:90%</b>	pCi/L	06/07/23 11:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.07U ± 0.679 (1.16)</b>	pCi/L	06/22/23 07:58	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP\_1413

Pace Project No.: 30590562

**Sample: BD09442 MW-52HO MS**      **Lab ID: 30590562002**      Collected: 05/15/23 14:10      Received: 05/24/23 10:40      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>114.33 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/07/23 10:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>102.55 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/07/23 11:28	15262-20-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP\_1413

Pace Project No.: 30590562

**Sample: BD09442 MW-52HO MSD**    **Lab ID: 30590562003**    Collected: 05/15/23 14:10    Received: 05/24/23 10:40    Matrix: Water  
PWS:    Site ID:    Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>103.00 %REC 10.43RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	06/07/23 10:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>94.08 %REC 8.61RPD ± NA</b> <b>(NA)</b> <b>C:NA T:NA</b>	pCi/L	06/07/23 11:27	15262-20-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP\_1413

Pace Project No.: 30590562

**Sample: BD09443 MW-52HO Dup**    **Lab ID: 30590562004**    Collected: 05/15/23 14:10    Received: 05/24/23 10:40    Matrix: Water  
PWS:    Site ID:    Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.862 ± 0.389 (0.443)</b> <b>C:92% T:NA</b>	pCi/L	06/07/23 10:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.882 ± 0.418 (0.729)</b> <b>C:84% T:94%</b>	pCi/L	06/07/23 11:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.74 ± 0.807 (1.17)</b>	pCi/L	06/22/23 07:58	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP\_1413

Pace Project No.: 30590562

**Sample: BD09444 EB-1**      **Lab ID: 30590562005**      Collected: 05/15/23 14:45      Received: 05/24/23 10:40      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.177U ± 0.270 (0.595)</b> <b>C:88% T:NA</b>	pCi/L	06/07/23 10:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.623U ± 0.422 (0.817)</b> <b>C:83% T:85%</b>	pCi/L	06/07/23 11:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.800U ± 0.692 (1.41)</b>	pCi/L	06/22/23 07:58	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWGREAP\_1413

Pace Project No.: 30590562

**Sample: BD09445 FB-1**      **Lab ID: 30590562006**      Collected: 05/15/23 15:00      Received: 05/24/23 10:40      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.275U ± 0.292 (0.565)</b> <b>C:69% T:NA</b>	pCi/L	06/07/23 10:02	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.594U ± 0.416 (0.812)</b> <b>C:78% T:89%</b>	pCi/L	06/07/23 11:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.869U ± 0.708 (1.38)</b>	pCi/L	06/22/23 07:58	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP\_1413

Pace Project No.: 30590562

QC Batch: 590769

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30590562001, 30590562002, 30590562003, 30590562004, 30590562005, 30590562006

METHOD BLANK: 2870866

Matrix: Water

Associated Lab Samples: 30590562001, 30590562002, 30590562003, 30590562004, 30590562005, 30590562006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0762 ± 0.0959 (0.196) C:81% T:NA	pCi/L	06/07/23 10:02	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWGREAP\_1413

Pace Project No.: 30590562

QC Batch: 591323

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30590562001, 30590562002, 30590562003, 30590562004, 30590562005, 30590562006

METHOD BLANK: 2873483

Matrix: Water

Associated Lab Samples: 30590562001, 30590562002, 30590562003, 30590562004, 30590562005, 30590562006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.523 ± 0.334 (0.623) C:81% T:90%	pCi/L	06/07/23 11:27	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: WMWGREAP\_1413  
Pace Project No.: 30590562

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGREAP\_1413  
Pace Project No.: 30590562

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30590562001	BD09442 MW-52HO	EPA 9315	590769		
30590562002	BD09442 MW-52HO MS	EPA 9315	590769		
30590562003	BD09442 MW-52HO MSD	EPA 9315	590769		
30590562004	BD09443 MW-52HO Dup	EPA 9315	590769		
30590562005	BD09444 EB-1	EPA 9315	590769		
30590562006	BD09445 FB-1	EPA 9315	590769		
30590562001	BD09442 MW-52HO	EPA 9320	591323		
30590562002	BD09442 MW-52HO MS	EPA 9320	591323		
30590562003	BD09442 MW-52HO MSD	EPA 9320	591323		
30590562004	BD09443 MW-52HO Dup	EPA 9320	591323		
30590562005	BD09444 EB-1	EPA 9320	591323		
30590562006	BD09445 FB-1	EPA 9320	591323		
30590562001	BD09442 MW-52HO	Total Radium Calculation	596750		
30590562004	BD09443 MW-52HO Dup	Total Radium Calculation	596750		
30590562005	BD09444 EB-1	Total Radium Calculation	596750		
30590562006	BD09445 FB-1	Total Radium Calculation	596750		

### REPORT OF LABORATORY ANALYSIS

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WO#: 30590562

CHAIN-OF  
The Chain-of-Custody



Printed accurately.

Section A

Required Client Information:  
 Company: Alabama Power Company  
 Address: 744 Highway 87 GSC Bldg #8  
 Calera, AL 35040  
 Email To: tbwill@southernco.com  
 Phone: 205-664-6101 | Fax:  
 Requested Due Date: 28 days

Required Project Information:  
 Report To: Brooke Caton  
 Copy To: Renee Jernigan & Blaine Denton  
 Purchase Order #: APC1075638  
 Project Name: Plant Greene County Ash Pond  
 Project Number: WMMWGREA\_1413

Attention: Brooke Caton  
 Company Name: Alabama Power Co.  
 Address: 744 Highway 87 GSC Bldg #8  
 Pace Quote:CCR  
 Pace Project Manager: Skyler Richmond  
 Pace Profile #: 16788

Regulatory Agency  
 State / Location: AL

Section B

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Field Filtered	Matrix Spike/Matrix Spike Duplicate	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	# OF CONTAINERS	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)					
											Unpreserved	H2SO4	HNO3	Preservatives		Analyses Test	DATE	TIME	TEMP in C	
1	BD09442 MW-52HO	APCO-GC-AP-MW-52HO	APCO_GreensCounty_AshPond			x	GW	G	START DATE TIME	3		X	X	X						
2	BD09443 MW-52HO Dup	APCO-GC-AP-MW-52HO	APCO_GreensCounty_AshPond	x			GW	G	5/15/2023 14:10	1		X	X	X						
3	BD09444 EB-1	APCO-GC-AP-EB-01	APCO_GreensCounty_AshPond				GW	G	5/15/2023 14:45	1		X	X	X						
4	BD09445 FB-1	APCO-GC-AP-FB-01	APCO_GreensCounty_AshPond				GW	G	5/15/2023 15:00	1		X	X	X						
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION: Brooke Caton/ APC GTL

DATE: 5/22/2023

TIME: 8:21

ACCEPTED BY / AFFILIATION: *MC*

DATE: 5-24-23

TIME: 10:40

SAMPLE CONDITIONS

Received on (Y/N): 1

Temp (Y/N): 2

Custody (Y/N): 2

Sealed (Y/N): 2

Cooler (Y/N): 2

Samples (Y/N): 2

Intact (Y/N): 2

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tu Daugherty

SIGNATURE of SAMPLER: *Tu Daugherty*

DATE Signed: *5-24-23*

DC#\_Title: ENV-FRM-GBUR-0088 v04\_Sample Condition Upon Receipt-Pittsburgh

Effective Date: 02/03/2023



Client Name: Alabama Power Project #: 30590562

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking Number: 6369 84652495

Examined By	<u>TH</u>
Labeled By	<u>TH</u>
Temped By	<u>T</u>

Custody Seal on Cooler/Box Present:  Yes  No Seals Intact:  Yes  No

Thermometer Used: — Type of Ice: Wet Blue None

Cooler Temperature: Observed Temp — °C Correction Factor: — °C Final Temp: — °C  
Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot#	D.P.D. Residual Chlorine Lot #
				<u>100312</u>	<u>—</u>
Chain of Custody Present	<input checked="" type="checkbox"/>			1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>			2.	
-Were client corrections present on COC		<input checked="" type="checkbox"/>			
Chain of Custody Relinquished	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		3. <u>TH 5/25/23</u>	
Sampler Name & Signature on COC:		<input checked="" type="checkbox"/>		4.	
Sample Labels match COC:	<input checked="" type="checkbox"/>			5.	
-Includes date/time/ID					
Matrix:		<u>WT</u>			
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>			6.	
Short Hold Time Analysis (<72hr remaining):		<input checked="" type="checkbox"/>		7.	
Rush Turn Around Time Requested:		<input checked="" type="checkbox"/>		8.	
Sufficient Volume:	<input checked="" type="checkbox"/>			9.	
Correct Containers Used:	<input checked="" type="checkbox"/>			10.	
-Pace Containers Used	<input checked="" type="checkbox"/>				
Containers Intact:	<input checked="" type="checkbox"/>			11.	
Orthophosphate field filtered:			<input checked="" type="checkbox"/>	12.	
Hex Cr Aqueous samples field filtered:			<input checked="" type="checkbox"/>	13.	
Organic Samples checked for dechlorination			<input checked="" type="checkbox"/>	14.	
Filtered volume received for dissolved tests:			<input checked="" type="checkbox"/>	15.	
All containers checked for preservation:	<input checked="" type="checkbox"/>			16.	
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix					
All containers meet method preservation requirements:	<input checked="" type="checkbox"/>			Initial when completed <u>TH</u>	Date/Time of Preservation
				Lot# of added Preservative	
8260C/D: Headspace in VOA Vials (> 6mm)			<input checked="" type="checkbox"/>	17.	
624.1: Headspace in VOA Vials (0mm)			<input checked="" type="checkbox"/>	18.	
Trip Blank Present:			<input checked="" type="checkbox"/>	Trip blank custody seal present? YES or NO	
Rad Samples Screened <0.5 mrem/hr.	<input checked="" type="checkbox"/>			Initial when completed <u>TH</u>	Date: <u>5/25/23</u> Survey Meter SN: <u>1563</u>
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

30390802

Client \_\_\_\_\_ Profile Number 16788  
 Site W/WGAREP\_1413 Page 1 of 1  
 Notes \_\_\_\_\_

Sample Line Item	Amber Glass							Plastic							Vials							Other						
	AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WG9U	WGKU	ZPLC	GCUB	GJN	12GN	GN	BG1U		
1						1																						
2						1																						
3						1																						
4						1																						
5						1																						
6						1																						

Container Codes

Glass	
GJN	1 Gallon Jug with HNO3
AG5U	100mL amber glass unpreserved
AG5T	100mL amber glass Na Thiosulfate
GJN	1 Gallon Jug
AG1S	1L amber glass H2SO4
AG1H	1L amber glass HCl
AG1T	1L amber glass NA Thiosulfate
BG1U	1L clear glass unpreserved
AG3S	250mL amber glass H2SO4
AG3U	250mL amber glass unpreserved
DG9S	40mL amber VOA vial H2SO4
VG9U	40mL clear VOA vial
VG9T	40mL clear VOA vial Na Thiosulfate
VG9H	40mL clear VOA vial HCl
JGFU	4oz amber wide jar
WG9U	4oz wide jar unpreserved
BG2U	500mL clear glass unpreserved
AG2U	500mL amber glass unpreserved
WGKU	8oz wide jar unpreserved
GN	General

Plastic/Misc.	
GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	120mL coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250mL plastic NaOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved
EZ1	5g Encore
VOAK	Kit Volatile Solid
I	Wipe/Swab
ZPLC	Siploc Bag
WT	Water
SL	Solid
OL	Non-Aq Liquid
WP	Wipe

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: ZPC  
Date: 6/2/2023  
Worklist: 73453  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2873483
MB concentration:	0.523
M/B 2 Sigma CSU:	0.334
MB MDC:	0.623
MB Numerical Performance Indicator:	3.07
MB Status vs. Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS D (Y or N)?	N
Count Date:	6/7/2023	LCS D73453	LCS D73453
Spike I.D.:	22-040		
Decay Corrected Spike Concentration (pCi/mL):	32.326		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.808		
Target Conc. (pCi/L, g, F):	4.001		
Uncertainty (Calculated):	0.196		
Result (pCi/L, g, F):	2.860		
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.741		
Numerical Performance Indicator:	-2.92		
Percent Recovery:	71.49%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	135%		
Lower % Recovery Limits:	60%		

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/15/2023	5/17/2023
Sample I.D.:	30590562001	30590556001
Sample MS I.D.:	30590562002	30590556002
Sample MSD I.D.:	30590562003	30590556003
Spike I.D.:	22-040	22-040
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	32.572	32.572
Spike Volume Used in MS (mL):	0.20	0.20
Spike Volume Used in MSD (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.807	0.805
MS Target Conc. (pCi/L, g, F):	8.074	8.093
MSD Aliquot (L, g, F):	0.807	0.807
MSD Target Conc. (pCi/L, g, F):	8.069	8.073
MSD Spike Uncertainty (calculated):	0.396	0.397
MSD Numerical Performance Indicator:	0.395	0.396
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.467	0.335
Sample Matrix Spike Result:	0.320	0.356
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	8.746	5.364
Sample Matrix Spike Duplicate Result:	1.762	1.174
MS Numerical Performance Indicator:	8.058	6.737
MS Numerical Performance Indicator:	1.645	1.435
MS Numerical Performance Indicator:	0.220	-4.656
MS Percent Recovery:	-0.544	-2.139
MSD Percent Recovery:	102.55%	62.15%
MS Status vs Numerical Indicator:	94.08%	79.30%
MS Status vs Recovery:	Pass	Warning
MSD Status vs Numerical Indicator:	Pass	Pass
MSD Status vs Recovery:	Pass	Pass
MS/MSD Upper % Recovery Limits:	135%	135%
MS/MSD Lower % Recovery Limits:	60%	60%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30590556001
Sample MS I.D.:	30590556002
Sample MSD I.D.:	30590556003
Sample Matrix Spike Result:	5.364
Sample Matrix Spike Duplicate Result:	1.174
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.762
Sample Matrix Spike Duplicate Result:	8.058
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.645
Duplicate Numerical Performance Indicator:	0.560
Duplicate Numerical Performance Indicator:	8.61%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments: \*if the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepared.

*Handwritten signature*

*Handwritten note: MIB activity < MDC, Pass*



# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226  
Analyst: SLC  
Date: 5/30/2023  
Worklist: 73406  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2870866
MB concentration:	0.076
MB 2 Sigma CSU:	0.096
MB MDC:	0.196
MB Numerical Performance Indicator:	1.56
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD73406	LCSD73406
Count Date:	6/7/2023
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.016
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.510
Target Conc. (pCi/L, g, F):	4.709
Uncertainty (Calculated):	0.057
Result (pCi/L, g, F):	5.058
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.907
Numerical Performance Indicator:	107.42%
Percent Recovery:	Pass
Status vs Numerical Indicator:	N/A
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	See Below ##
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/15/2023	5/17/2023
Sample I.D.:	30590562001	30590556001
Sample MS I.D.:	30590562002	30590556002
Sample MSD I.D.:	30590562003	30590556003
Spike I.D.:	19-033	19-033
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.017	24.017
Spike Volume Used in MS (mL):	0.20	0.20
Spike Volume Used in MSD (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.207	0.204
MS Target Conc. (pCi/L, g, F):	23.207	23.596
MSD Aliquot (L, g, F):	0.211	0.206
MSD Target Conc. (pCi/L, g, F):	22.810	23.339
MS Spike Uncertainty (calculated):	0.278	0.283
MSD Spike Uncertainty (calculated):	0.274	0.280
Sample Result:	0.605	0.206
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.359	0.253
Sample Matrix Spike Result:	27.138	23.070
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	4.455	3.820
Sample Matrix Spike Duplicate Result:	24.099	24.942
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.959	4.094
MS Numerical Performance Indicator:	1.456	-0.374
MSD Numerical Performance Indicator:	0.336	0.666
MS Percent Recovery:	114.33%	96.90%
MSD Percent Recovery:	103.00%	105.99%
MS Status vs Numerical Indicator:	Pass	Pass
MSD Status vs Numerical Indicator:	Pass	Pass
MS Status vs Recovery:	N/A	N/A
MSD Status vs Recovery:	N/A	N/A
MS/MSD Upper % Recovery Limits:	125%	125%
MS/MSD Lower % Recovery Limits:	75%	75%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30590562001
Sample MS I.D.:	30590562002
Sample MSD I.D.:	30590562003
Matrix Spike Result:	27.138
Sample Matrix Spike Result:	4.455
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	24.099
Sample Matrix Spike Duplicate Result:	3.959
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.999
Duplicate Numerical Performance Indicator:	10.43%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	Pass
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	25%
% RPD Limit:	25%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

ET  
6-7-23

LA 6/1/23

Alabama Power General Test Laboratory  
744 County Road 87, GSC#8  
Calera, AL 35040  
(205) 664-6032 or 6171  
FAX (205) 257-1654

## ***Field Case Narrative***



# **Greene County Ash Pond**

## **2023 Compliance Event 2**

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Ants were found in the well cap and water line during initial purging of well MW-43H.

The pump was lowered to 2 feet of bottom due to low water levels at well MW-13.

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

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744 County Road 87, GSC#8  
Calera, AL 35040  
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## ***Field Case Narrative***



# **Greene County Ash Pond**

## **2023 Sewell Off-Site Wells Event 2**

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

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744 County Road 87, GSC#8  
Calera, AL 35040  
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FAX (205) 257-1654

## ***Field Case Narrative***



# **Greene County Ash Pond**

## **2023 Strong Event 2**

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

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744 County Road 87, GSC#8  
Calera, AL 35040  
(205) 664-6032 or 6171  
FAX (205) 257-1654

## ***Field Case Narrative***



# **Greene County Ash Pond**

## **2023 Land Trust Event 2**

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.











**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-1	COND	Conductivity	10/24/2023 10:08	1216.01	uS/cm
GC-AP-MW-1	DO	DO	10/24/2023 10:08	0.1	mg/L
GC-AP-MW-1	DTW	Depth to Water Detail	10/24/2023 10:08	19.28	ft
GC-AP-MW-1	ORP	Oxidation Reduction Potential	10/24/2023 10:08	-65.94	mv
GC-AP-MW-1	PH	pH	10/24/2023 10:08	5.62	SU
GC-AP-MW-1	TEMP	Temperature	10/24/2023 10:08	22.34	C
GC-AP-MW-1	TURB	Turbidity	10/24/2023 10:08	11.4	NTU
GC-AP-MW-1	COND	Conductivity	10/24/2023 10:13	1258.85	uS/cm
GC-AP-MW-1	DO	DO	10/24/2023 10:13	0.08	mg/L
GC-AP-MW-1	DTW	Depth to Water Detail	10/24/2023 10:13	19.28	ft
GC-AP-MW-1	ORP	Oxidation Reduction Potential	10/24/2023 10:13	-63.93	mv
GC-AP-MW-1	PH	pH	10/24/2023 10:13	5.62	SU
GC-AP-MW-1	TEMP	Temperature	10/24/2023 10:13	22.34	C
GC-AP-MW-1	TURB	Turbidity	10/24/2023 10:13	7.99	NTU
GC-AP-MW-1	COND	Conductivity	10/24/2023 10:18	1302.88	uS/cm
GC-AP-MW-1	DO	DO	10/24/2023 10:18	0.07	mg/L
GC-AP-MW-1	DTW	Depth to Water Detail	10/24/2023 10:18	19.28	ft
GC-AP-MW-1	ORP	Oxidation Reduction Potential	10/24/2023 10:18	-62.52	mv
GC-AP-MW-1	PH	pH	10/24/2023 10:18	5.65	SU
GC-AP-MW-1	TEMP	Temperature	10/24/2023 10:18	22.32	C
GC-AP-MW-1	TURB	Turbidity	10/24/2023 10:18	7.15	NTU
GC-AP-MW-1	COND	Conductivity	10/24/2023 10:23	1311.85	uS/cm
GC-AP-MW-1	DO	DO	10/24/2023 10:23	0.06	mg/L
GC-AP-MW-1	DTW	Depth to Water Detail	10/24/2023 10:23	19.28	ft
GC-AP-MW-1	ORP	Oxidation Reduction Potential	10/24/2023 10:23	-58.23	mv
GC-AP-MW-1	PH	pH	10/24/2023 10:23	5.66	SU
GC-AP-MW-1	TEMP	Temperature	10/24/2023 10:23	22.29	C
GC-AP-MW-1	TURB	Turbidity	10/24/2023 10:23	5.91	NTU
GC-AP-MW-1	COND	Conductivity	10/24/2023 10:28	1315	uS/cm
GC-AP-MW-1	DO	DO	10/24/2023 10:28	0.06	mg/L
GC-AP-MW-1	DTW	Depth to Water Detail	10/24/2023 10:28	19.28	ft
GC-AP-MW-1	ORP	Oxidation Reduction Potential	10/24/2023 10:28	-56.8	mv
GC-AP-MW-1	PH	pH	10/24/2023 10:28	5.66	SU
GC-AP-MW-1	SULFIDE	Sulfide	10/24/2023 10:28	0	mg/L
GC-AP-MW-1	TEMP	Temperature	10/24/2023 10:28	22.41	C
GC-AP-MW-1	TURB	Turbidity	10/24/2023 10:28	6.39	NTU
GC-AP-MW-2	COND	Conductivity	10/24/2023 11:26	916.55	uS/cm
GC-AP-MW-2	DO	DO	10/24/2023 11:26	0.12	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	10/24/2023 11:26	14.72	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potential	10/24/2023 11:26	-37.44	mv
GC-AP-MW-2	PH	pH	10/24/2023 11:26	6.22	SU
GC-AP-MW-2	TEMP	Temperature	10/24/2023 11:26	24.83	C
GC-AP-MW-2	TURB	Turbidity	10/24/2023 11:26	99	NTU
GC-AP-MW-2	COND	Conductivity	10/24/2023 11:31	998.89	uS/cm
GC-AP-MW-2	DO	DO	10/24/2023 11:31	0.06	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	10/24/2023 11:31	14.72	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potential	10/24/2023 11:31	-43.55	mv
GC-AP-MW-2	PH	pH	10/24/2023 11:31	6.16	SU
GC-AP-MW-2	TEMP	Temperature	10/24/2023 11:31	24.72	C
GC-AP-MW-2	TURB	Turbidity	10/24/2023 11:31	99	NTU
GC-AP-MW-2	COND	Conductivity	10/24/2023 11:36	1075.12	uS/cm
GC-AP-MW-2	DO	DO	10/24/2023 11:36	0.04	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	10/24/2023 11:36	14.72	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potential	10/24/2023 11:36	-43.66	mv
GC-AP-MW-2	PH	pH	10/24/2023 11:36	6.09	SU
GC-AP-MW-2	TEMP	Temperature	10/24/2023 11:36	24.71	C
GC-AP-MW-2	TURB	Turbidity	10/24/2023 11:36	99	NTU
GC-AP-MW-2	COND	Conductivity	10/24/2023 11:41	1119.04	uS/cm
GC-AP-MW-2	DO	DO	10/24/2023 11:41	0.03	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	10/24/2023 11:41	14.72	ft

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-2	ORP	Oxidation Reduction Potential	10/24/2023 11:41	-41.29	mv
GC-AP-MW-2	PH	pH	10/24/2023 11:41	6.06	SU
GC-AP-MW-2	TEMP	Temperature	10/24/2023 11:41	24.63	C
GC-AP-MW-2	TURB	Turbidity	10/24/2023 11:41	82	NTU
GC-AP-MW-2	COND	Conductivity	10/24/2023 11:46	1123	uS/cm
GC-AP-MW-2	DO	DO	10/24/2023 11:46	0.04	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	10/24/2023 11:46	14.72	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potential	10/24/2023 11:46	-40.54	mv
GC-AP-MW-2	PH	pH	10/24/2023 11:46	6.04	SU
GC-AP-MW-2	TEMP	Temperature	10/24/2023 11:46	24.62	C
GC-AP-MW-2	TURB	Turbidity	10/24/2023 11:46	46	NTU
GC-AP-MW-2	COND	Conductivity	10/24/2023 11:51	1136.7	uS/cm
GC-AP-MW-2	DO	DO	10/24/2023 11:51	0.04	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	10/24/2023 11:51	14.72	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potential	10/24/2023 11:51	-39.78	mv
GC-AP-MW-2	PH	pH	10/24/2023 11:51	6.01	SU
GC-AP-MW-2	TEMP	Temperature	10/24/2023 11:51	24.71	C
GC-AP-MW-2	TURB	Turbidity	10/24/2023 11:51	25.7	NTU
GC-AP-MW-2	COND	Conductivity	10/24/2023 11:56	1139.51	uS/cm
GC-AP-MW-2	DO	DO	10/24/2023 11:56	0.02	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	10/24/2023 11:56	14.72	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potential	10/24/2023 11:56	-39.25	mv
GC-AP-MW-2	PH	pH	10/24/2023 11:56	6.02	SU
GC-AP-MW-2	TEMP	Temperature	10/24/2023 11:56	24.56	C
GC-AP-MW-2	TURB	Turbidity	10/24/2023 11:56	18.2	NTU
GC-AP-MW-2	COND	Conductivity	10/24/2023 12:01	1142.75	uS/cm
GC-AP-MW-2	DO	DO	10/24/2023 12:01	0.02	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	10/24/2023 12:01	14.72	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potential	10/24/2023 12:01	-38.65	mv
GC-AP-MW-2	PH	pH	10/24/2023 12:01	6	SU
GC-AP-MW-2	TEMP	Temperature	10/24/2023 12:01	24.69	C
GC-AP-MW-2	TURB	Turbidity	10/24/2023 12:01	17.7	NTU
GC-AP-MW-2	COND	Conductivity	10/24/2023 12:06	1132.84	uS/cm
GC-AP-MW-2	DO	DO	10/24/2023 12:06	0.03	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	10/24/2023 12:06	14.72	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potential	10/24/2023 12:06	-37.21	mv
GC-AP-MW-2	PH	pH	10/24/2023 12:06	5.99	SU
GC-AP-MW-2	TEMP	Temperature	10/24/2023 12:06	24.72	C
GC-AP-MW-2	TURB	Turbidity	10/24/2023 12:06	22.4	NTU
GC-AP-MW-2	COND	Conductivity	10/24/2023 12:11	1129.88	uS/cm
GC-AP-MW-2	DO	DO	10/24/2023 12:11	0.03	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	10/24/2023 12:11	14.72	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potential	10/24/2023 12:11	-35.67	mv
GC-AP-MW-2	PH	pH	10/24/2023 12:11	6	SU
GC-AP-MW-2	TEMP	Temperature	10/24/2023 12:11	24.59	C
GC-AP-MW-2	TURB	Turbidity	10/24/2023 12:11	30.9	NTU
GC-AP-MW-2	COND	Conductivity	10/24/2023 12:16	1135	uS/cm
GC-AP-MW-2	DO	DO	10/24/2023 12:16	0.03	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	10/24/2023 12:16	14.72	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potential	10/24/2023 12:16	-35.22	mv
GC-AP-MW-2	PH	pH	10/24/2023 12:16	6	SU
GC-AP-MW-2	TEMP	Temperature	10/24/2023 12:16	24.68	C
GC-AP-MW-2	TURB	Turbidity	10/24/2023 12:16	33.6	NTU
GC-AP-MW-2	COND	Conductivity	10/24/2023 12:21	1137.97	uS/cm
GC-AP-MW-2	DO	DO	10/24/2023 12:21	0.03	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	10/24/2023 12:21	14.72	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potential	10/24/2023 12:21	-34.28	mv
GC-AP-MW-2	PH	pH	10/24/2023 12:21	5.99	SU
GC-AP-MW-2	TEMP	Temperature	10/24/2023 12:21	24.7	C
GC-AP-MW-2	TURB	Turbidity	10/24/2023 12:21	28.8	NTU

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-2	COND	Conductivity	10/24/2023 12:26	1147.07	uS/cm
GC-AP-MW-2	DO	DO	10/24/2023 12:26	0.03	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	10/24/2023 12:26	14.72	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potential	10/24/2023 12:26	-34.05	mv
GC-AP-MW-2	PH	pH	10/24/2023 12:26	6	SU
GC-AP-MW-2	TEMP	Temperature	10/24/2023 12:26	24.63	C
GC-AP-MW-2	TURB	Turbidity	10/24/2023 12:26	17.8	NTU
GC-AP-MW-2	COND	Conductivity	10/24/2023 12:31	1148.24	uS/cm
GC-AP-MW-2	DO	DO	10/24/2023 12:31	0.02	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	10/24/2023 12:31	14.72	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potential	10/24/2023 12:31	-33.3	mv
GC-AP-MW-2	PH	pH	10/24/2023 12:31	6.01	SU
GC-AP-MW-2	TEMP	Temperature	10/24/2023 12:31	24.68	C
GC-AP-MW-2	TURB	Turbidity	10/24/2023 12:31	15.2	NTU
GC-AP-MW-2	COND	Conductivity	10/24/2023 12:36	1148.83	uS/cm
GC-AP-MW-2	DO	DO	10/24/2023 12:36	0.02	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	10/24/2023 12:36	14.72	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potential	10/24/2023 12:36	-32.05	mv
GC-AP-MW-2	PH	pH	10/24/2023 12:36	5.99	SU
GC-AP-MW-2	TEMP	Temperature	10/24/2023 12:36	24.77	C
GC-AP-MW-2	TURB	Turbidity	10/24/2023 12:36	11.6	NTU
GC-AP-MW-2	COND	Conductivity	10/24/2023 12:41	1150.46	uS/cm
GC-AP-MW-2	DO	DO	10/24/2023 12:41	0.02	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	10/24/2023 12:41	14.72	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potential	10/24/2023 12:41	-31.95	mv
GC-AP-MW-2	PH	pH	10/24/2023 12:41	6	SU
GC-AP-MW-2	TEMP	Temperature	10/24/2023 12:41	24.67	C
GC-AP-MW-2	TURB	Turbidity	10/24/2023 12:41	9.98	NTU
GC-AP-MW-2	COND	Conductivity	10/24/2023 12:46	1147.26	uS/cm
GC-AP-MW-2	DO	DO	10/24/2023 12:46	0.02	mg/L
GC-AP-MW-2	DTW	Depth to Water Detail	10/24/2023 12:46	14.72	ft
GC-AP-MW-2	ORP	Oxidation Reduction Potential	10/24/2023 12:46	-31.76	mv
GC-AP-MW-2	PH	pH	10/24/2023 12:46	6.01	SU
GC-AP-MW-2	SULFIDE	Sulfide	10/24/2023 12:46	0	mg/L
GC-AP-MW-2	TEMP	Temperature	10/24/2023 12:46	24.75	C
GC-AP-MW-2	TURB	Turbidity	10/24/2023 12:46	7.07	NTU
GC-AP-MW-3	COND	Conductivity	10/24/2023 13:10	507.12	uS/cm
GC-AP-MW-3	DO	DO	10/24/2023 13:10	0.07	mg/L
GC-AP-MW-3	DTW	Depth to Water Detail	10/24/2023 13:10	15.9	ft
GC-AP-MW-3	ORP	Oxidation Reduction Potential	10/24/2023 13:10	-58.83	mv
GC-AP-MW-3	PH	pH	10/24/2023 13:10	6.23	SU
GC-AP-MW-3	TEMP	Temperature	10/24/2023 13:10	23.63	C
GC-AP-MW-3	TURB	Turbidity	10/24/2023 13:10	12.67	NTU
GC-AP-MW-3	COND	Conductivity	10/24/2023 13:15	514.2	uS/cm
GC-AP-MW-3	DO	DO	10/24/2023 13:15	0.04	mg/L
GC-AP-MW-3	DTW	Depth to Water Detail	10/24/2023 13:15	15.9	ft
GC-AP-MW-3	ORP	Oxidation Reduction Potential	10/24/2023 13:15	-68.6	mv
GC-AP-MW-3	PH	pH	10/24/2023 13:15	6.19	SU
GC-AP-MW-3	TEMP	Temperature	10/24/2023 13:15	23.67	C
GC-AP-MW-3	TURB	Turbidity	10/24/2023 13:15	9.97	NTU
GC-AP-MW-3	COND	Conductivity	10/24/2023 13:20	520.02	uS/cm
GC-AP-MW-3	DO	DO	10/24/2023 13:20	0.03	mg/L
GC-AP-MW-3	DTW	Depth to Water Detail	10/24/2023 13:20	15.9	ft
GC-AP-MW-3	ORP	Oxidation Reduction Potential	10/24/2023 13:20	-79.23	mv
GC-AP-MW-3	PH	pH	10/24/2023 13:20	6.23	SU
GC-AP-MW-3	TEMP	Temperature	10/24/2023 13:20	23.39	C
GC-AP-MW-3	TURB	Turbidity	10/24/2023 13:20	8.27	NTU
GC-AP-MW-3	COND	Conductivity	10/24/2023 13:25	524.54	uS/cm
GC-AP-MW-3	DO	DO	10/24/2023 13:25	0.03	mg/L
GC-AP-MW-3	DTW	Depth to Water Detail	10/24/2023 13:25	15.9	ft

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-3	ORP	Oxidation Reduction Potential	10/24/2023 13:25	-85.15	mv
GC-AP-MW-3	PH	pH	10/24/2023 13:25	6.26	SU
GC-AP-MW-3	TEMP	Temperature	10/24/2023 13:25	23.47	C
GC-AP-MW-3	TURB	Turbidity	10/24/2023 13:25	6.72	NTU
GC-AP-MW-3	COND	Conductivity	10/24/2023 13:30	527.21	uS/cm
GC-AP-MW-3	DO	DO	10/24/2023 13:30	0.02	mg/L
GC-AP-MW-3	DTW	Depth to Water Detail	10/24/2023 13:30	15.9	ft
GC-AP-MW-3	ORP	Oxidation Reduction Potential	10/24/2023 13:30	-87.19	mv
GC-AP-MW-3	PH	pH	10/24/2023 13:30	6.22	SU
GC-AP-MW-3	SULFIDE	Sulfide	10/24/2023 13:30	0	mg/L
GC-AP-MW-3	TEMP	Temperature	10/24/2023 13:30	23.58	C
GC-AP-MW-3	TURB	Turbidity	10/24/2023 13:30	5.02	NTU
GC-AP-MW-5	COND	Conductivity	10/24/2023 15:47	641.8	uS/cm
GC-AP-MW-5	DO	DO	10/24/2023 15:47	0.06	mg/L
GC-AP-MW-5	DTW	Depth to Water Detail	10/24/2023 15:47	17.82	ft
GC-AP-MW-5	ORP	Oxidation Reduction Potential	10/24/2023 15:47	-73.92	mv
GC-AP-MW-5	PH	pH	10/24/2023 15:47	6.69	SU
GC-AP-MW-5	TEMP	Temperature	10/24/2023 15:47	22.09	C
GC-AP-MW-5	TURB	Turbidity	10/24/2023 15:47	12.31	NTU
GC-AP-MW-5	COND	Conductivity	10/24/2023 15:52	639.25	uS/cm
GC-AP-MW-5	DO	DO	10/24/2023 15:52	0.04	mg/L
GC-AP-MW-5	DTW	Depth to Water Detail	10/24/2023 15:52	17.82	ft
GC-AP-MW-5	ORP	Oxidation Reduction Potential	10/24/2023 15:52	-80.74	mv
GC-AP-MW-5	PH	pH	10/24/2023 15:52	6.63	SU
GC-AP-MW-5	TEMP	Temperature	10/24/2023 15:52	22.13	C
GC-AP-MW-5	TURB	Turbidity	10/24/2023 15:52	12.86	NTU
GC-AP-MW-5	COND	Conductivity	10/24/2023 15:57	636.95	uS/cm
GC-AP-MW-5	DO	DO	10/24/2023 15:57	0.03	mg/L
GC-AP-MW-5	DTW	Depth to Water Detail	10/24/2023 15:57	17.82	ft
GC-AP-MW-5	ORP	Oxidation Reduction Potential	10/24/2023 15:57	-87.26	mv
GC-AP-MW-5	PH	pH	10/24/2023 15:57	6.64	SU
GC-AP-MW-5	TEMP	Temperature	10/24/2023 15:57	22.02	C
GC-AP-MW-5	TURB	Turbidity	10/24/2023 15:57	12.18	NTU
GC-AP-MW-5	COND	Conductivity	10/24/2023 16:02	635.45	uS/cm
GC-AP-MW-5	DO	DO	10/24/2023 16:02	0.02	mg/L
GC-AP-MW-5	DTW	Depth to Water Detail	10/24/2023 16:02	17.82	ft
GC-AP-MW-5	ORP	Oxidation Reduction Potential	10/24/2023 16:02	-91.21	mv
GC-AP-MW-5	PH	pH	10/24/2023 16:02	6.62	SU
GC-AP-MW-5	TEMP	Temperature	10/24/2023 16:02	22.07	C
GC-AP-MW-5	TURB	Turbidity	10/24/2023 16:02	8.96	NTU
GC-AP-MW-5	COND	Conductivity	10/24/2023 16:07	632.93	uS/cm
GC-AP-MW-5	DO	DO	10/24/2023 16:07	0.02	mg/L
GC-AP-MW-5	DTW	Depth to Water Detail	10/24/2023 16:07	17.82	ft
GC-AP-MW-5	ORP	Oxidation Reduction Potential	10/24/2023 16:07	-94.65	mv
GC-AP-MW-5	PH	pH	10/24/2023 16:07	6.61	SU
GC-AP-MW-5	SULFIDE	Sulfide	10/24/2023 16:07	0	mg/L
GC-AP-MW-5	TEMP	Temperature	10/24/2023 16:07	22	C
GC-AP-MW-5	TURB	Turbidity	10/24/2023 16:07	8.93	NTU
GC-AP-MW-6	COND	Conductivity	10/25/2023 12:17	938.8	uS/cm
GC-AP-MW-6	DO	DO	10/25/2023 12:17	0.18	mg/L
GC-AP-MW-6	DTW	Depth to Water Detail	10/25/2023 12:17	18.3	ft
GC-AP-MW-6	ORP	Oxidation Reduction Potential	10/25/2023 12:17	163.87	mv
GC-AP-MW-6	PH	pH	10/25/2023 12:17	6.32	SU
GC-AP-MW-6	TEMP	Temperature	10/25/2023 12:17	21.53	C
GC-AP-MW-6	TURB	Turbidity	10/25/2023 12:17	46.3	NTU
GC-AP-MW-6	COND	Conductivity	10/25/2023 12:22	1016.85	uS/cm
GC-AP-MW-6	DO	DO	10/25/2023 12:22	0.11	mg/L
GC-AP-MW-6	DTW	Depth to Water Detail	10/25/2023 12:22	18.3	ft
GC-AP-MW-6	ORP	Oxidation Reduction Potential	10/25/2023 12:22	144.61	mv
GC-AP-MW-6	PH	pH	10/25/2023 12:22	6.37	SU

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-6	TEMP	Temperature	10/25/2023 12:22	21.53	C
GC-AP-MW-6	TURB	Turbidity	10/25/2023 12:22	9	NTU
GC-AP-MW-6	COND	Conductivity	10/25/2023 12:27	1036.96	uS/cm
GC-AP-MW-6	DO	DO	10/25/2023 12:27	0.09	mg/L
GC-AP-MW-6	DTW	Depth to Water Detail	10/25/2023 12:27	18.3	ft
GC-AP-MW-6	ORP	Oxidation Reduction Potential	10/25/2023 12:27	79.43	mv
GC-AP-MW-6	PH	pH	10/25/2023 12:27	6.41	SU
GC-AP-MW-6	TEMP	Temperature	10/25/2023 12:27	21.47	C
GC-AP-MW-6	TURB	Turbidity	10/25/2023 12:27	4.06	NTU
GC-AP-MW-6	COND	Conductivity	10/25/2023 12:32	1036.82	uS/cm
GC-AP-MW-6	DO	DO	10/25/2023 12:32	0.08	mg/L
GC-AP-MW-6	DTW	Depth to Water Detail	10/25/2023 12:32	18.3	ft
GC-AP-MW-6	ORP	Oxidation Reduction Potential	10/25/2023 12:32	54.07	mv
GC-AP-MW-6	PH	pH	10/25/2023 12:32	6.41	SU
GC-AP-MW-6	SULFIDE	Sulfide	10/25/2023 12:32	0	mg/L
GC-AP-MW-6	TEMP	Temperature	10/25/2023 12:32	21.47	C
GC-AP-MW-6	TURB	Turbidity	10/25/2023 12:32	3.14	NTU
GC-AP-MW-7	COND	Conductivity	10/25/2023 13:04	1331.74	uS/cm
GC-AP-MW-7	DO	DO	10/25/2023 13:04	2.48	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	10/25/2023 13:04	15.75	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potential	10/25/2023 13:04	48.43	mv
GC-AP-MW-7	PH	pH	10/25/2023 13:04	6.46	SU
GC-AP-MW-7	TEMP	Temperature	10/25/2023 13:04	20.87	C
GC-AP-MW-7	TURB	Turbidity	10/25/2023 13:04	40.5	NTU
GC-AP-MW-7	COND	Conductivity	10/25/2023 13:09	1323.4	uS/cm
GC-AP-MW-7	DO	DO	10/25/2023 13:09	3.84	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	10/25/2023 13:09	15.75	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potential	10/25/2023 13:09	46.33	mv
GC-AP-MW-7	PH	pH	10/25/2023 13:09	6.54	SU
GC-AP-MW-7	TEMP	Temperature	10/25/2023 13:09	20.74	C
GC-AP-MW-7	TURB	Turbidity	10/25/2023 13:09	38.8	NTU
GC-AP-MW-7	COND	Conductivity	10/25/2023 13:14	1319.43	uS/cm
GC-AP-MW-7	DO	DO	10/25/2023 13:14	4.2	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	10/25/2023 13:14	15.75	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potential	10/25/2023 13:14	38.12	mv
GC-AP-MW-7	PH	pH	10/25/2023 13:14	6.56	SU
GC-AP-MW-7	TEMP	Temperature	10/25/2023 13:14	20.73	C
GC-AP-MW-7	TURB	Turbidity	10/25/2023 13:14	33.6	NTU
GC-AP-MW-7	COND	Conductivity	10/25/2023 13:19	1315.75	uS/cm
GC-AP-MW-7	DO	DO	10/25/2023 13:19	4.21	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	10/25/2023 13:19	15.75	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potential	10/25/2023 13:19	37.69	mv
GC-AP-MW-7	PH	pH	10/25/2023 13:19	6.56	SU
GC-AP-MW-7	TEMP	Temperature	10/25/2023 13:19	20.72	C
GC-AP-MW-7	TURB	Turbidity	10/25/2023 13:19	26.5	NTU
GC-AP-MW-7	COND	Conductivity	10/25/2023 13:24	1314.96	uS/cm
GC-AP-MW-7	DO	DO	10/25/2023 13:24	4.16	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	10/25/2023 13:24	15.75	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potential	10/25/2023 13:24	38.39	mv
GC-AP-MW-7	PH	pH	10/25/2023 13:24	6.57	SU
GC-AP-MW-7	TEMP	Temperature	10/25/2023 13:24	20.64	C
GC-AP-MW-7	TURB	Turbidity	10/25/2023 13:24	23	NTU
GC-AP-MW-7	COND	Conductivity	10/25/2023 13:29	1313.3	uS/cm
GC-AP-MW-7	DO	DO	10/25/2023 13:29	4.28	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	10/25/2023 13:29	15.75	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potential	10/25/2023 13:29	39.75	mv
GC-AP-MW-7	PH	pH	10/25/2023 13:29	6.57	SU
GC-AP-MW-7	TEMP	Temperature	10/25/2023 13:29	20.66	C
GC-AP-MW-7	TURB	Turbidity	10/25/2023 13:29	23.9	NTU
GC-AP-MW-7	COND	Conductivity	10/25/2023 13:34	1310.81	uS/cm

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-7	DO	DO	10/25/2023 13:34	4.27	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	10/25/2023 13:34	15.75	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potential	10/25/2023 13:34	40.56	mv
GC-AP-MW-7	PH	pH	10/25/2023 13:34	6.57	SU
GC-AP-MW-7	TEMP	Temperature	10/25/2023 13:34	20.58	C
GC-AP-MW-7	TURB	Turbidity	10/25/2023 13:34	17.7	NTU
GC-AP-MW-7	COND	Conductivity	10/25/2023 13:39	1309.76	uS/cm
GC-AP-MW-7	DO	DO	10/25/2023 13:39	4.47	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	10/25/2023 13:39	15.75	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potential	10/25/2023 13:39	40.52	mv
GC-AP-MW-7	PH	pH	10/25/2023 13:39	6.57	SU
GC-AP-MW-7	TEMP	Temperature	10/25/2023 13:39	20.62	C
GC-AP-MW-7	TURB	Turbidity	10/25/2023 13:39	17.5	NTU
GC-AP-MW-7	COND	Conductivity	10/25/2023 13:44	1307.71	uS/cm
GC-AP-MW-7	DO	DO	10/25/2023 13:44	4.45	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	10/25/2023 13:44	15.75	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potential	10/25/2023 13:44	41.8	mv
GC-AP-MW-7	PH	pH	10/25/2023 13:44	6.58	SU
GC-AP-MW-7	TEMP	Temperature	10/25/2023 13:44	20.58	C
GC-AP-MW-7	TURB	Turbidity	10/25/2023 13:44	15.3	NTU
GC-AP-MW-7	COND	Conductivity	10/25/2023 13:49	1304.22	uS/cm
GC-AP-MW-7	DO	DO	10/25/2023 13:49	4.4	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	10/25/2023 13:49	15.75	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potential	10/25/2023 13:49	43.14	mv
GC-AP-MW-7	PH	pH	10/25/2023 13:49	6.58	SU
GC-AP-MW-7	TEMP	Temperature	10/25/2023 13:49	20.66	C
GC-AP-MW-7	TURB	Turbidity	10/25/2023 13:49	12.7	NTU
GC-AP-MW-7	COND	Conductivity	10/25/2023 13:54	1300.7	uS/cm
GC-AP-MW-7	DO	DO	10/25/2023 13:54	4.4	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	10/25/2023 13:54	15.75	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potential	10/25/2023 13:54	44.84	mv
GC-AP-MW-7	PH	pH	10/25/2023 13:54	6.58	SU
GC-AP-MW-7	TEMP	Temperature	10/25/2023 13:54	20.74	C
GC-AP-MW-7	TURB	Turbidity	10/25/2023 13:54	11.7	NTU
GC-AP-MW-7	COND	Conductivity	10/25/2023 13:59	1302.01	uS/cm
GC-AP-MW-7	DO	DO	10/25/2023 13:59	4.43	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	10/25/2023 13:59	15.75	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potential	10/25/2023 13:59	46.09	mv
GC-AP-MW-7	PH	pH	10/25/2023 13:59	6.57	SU
GC-AP-MW-7	TEMP	Temperature	10/25/2023 13:59	20.75	C
GC-AP-MW-7	TURB	Turbidity	10/25/2023 13:59	11.5	NTU
GC-AP-MW-7	COND	Conductivity	10/25/2023 14:04	1304.65	uS/cm
GC-AP-MW-7	DO	DO	10/25/2023 14:04	4.36	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	10/25/2023 14:04	15.75	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potential	10/25/2023 14:04	47.06	mv
GC-AP-MW-7	PH	pH	10/25/2023 14:04	6.57	SU
GC-AP-MW-7	TEMP	Temperature	10/25/2023 14:04	20.67	C
GC-AP-MW-7	TURB	Turbidity	10/25/2023 14:04	10.92	NTU
GC-AP-MW-7	COND	Conductivity	10/25/2023 14:09	1301.31	uS/cm
GC-AP-MW-7	DO	DO	10/25/2023 14:09	4.6	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	10/25/2023 14:09	15.75	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potential	10/25/2023 14:09	48.26	mv
GC-AP-MW-7	PH	pH	10/25/2023 14:09	6.57	SU
GC-AP-MW-7	TEMP	Temperature	10/25/2023 14:09	20.63	C
GC-AP-MW-7	TURB	Turbidity	10/25/2023 14:09	11.2	NTU
GC-AP-MW-7	COND	Conductivity	10/25/2023 14:14	1304.1	uS/cm
GC-AP-MW-7	DO	DO	10/25/2023 14:14	4.52	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	10/25/2023 14:14	15.75	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potential	10/25/2023 14:14	48.51	mv
GC-AP-MW-7	PH	pH	10/25/2023 14:14	6.57	SU

**Field Parameter Summary  
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WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-7	TEMP	Temperature	10/25/2023 14:14	20.76	C
GC-AP-MW-7	TURB	Turbidity	10/25/2023 14:14	10.8	NTU
GC-AP-MW-7	COND	Conductivity	10/25/2023 14:19	1297.09	uS/cm
GC-AP-MW-7	DO	DO	10/25/2023 14:19	4.53	mg/L
GC-AP-MW-7	DTW	Depth to Water Detail	10/25/2023 14:19	15.75	ft
GC-AP-MW-7	ORP	Oxidation Reduction Potential	10/25/2023 14:19	49.26	mv
GC-AP-MW-7	PH	pH	10/25/2023 14:19	6.57	SU
GC-AP-MW-7	SULFIDE	Sulfide	10/25/2023 14:19	0	mg/L
GC-AP-MW-7	TEMP	Temperature	10/25/2023 14:19	20.45	C
GC-AP-MW-7	TURB	Turbidity	10/25/2023 14:19	9.27	NTU
GC-AP-MW-8	COND	Conductivity	10/25/2023 14:44	1009.17	uS/cm
GC-AP-MW-8	DO	DO	10/25/2023 14:44	0.26	mg/L
GC-AP-MW-8	DTW	Depth to Water Detail	10/25/2023 14:44	14.62	ft
GC-AP-MW-8	ORP	Oxidation Reduction Potential	10/25/2023 14:44	67.05	mv
GC-AP-MW-8	PH	pH	10/25/2023 14:44	6.46	SU
GC-AP-MW-8	TEMP	Temperature	10/25/2023 14:44	20.83	C
GC-AP-MW-8	TURB	Turbidity	10/25/2023 14:44	2.85	NTU
GC-AP-MW-8	COND	Conductivity	10/25/2023 14:49	991.01	uS/cm
GC-AP-MW-8	DO	DO	10/25/2023 14:49	0.12	mg/L
GC-AP-MW-8	DTW	Depth to Water Detail	10/25/2023 14:49	14.62	ft
GC-AP-MW-8	ORP	Oxidation Reduction Potential	10/25/2023 14:49	74.07	mv
GC-AP-MW-8	PH	pH	10/25/2023 14:49	6.47	SU
GC-AP-MW-8	TEMP	Temperature	10/25/2023 14:49	20.89	C
GC-AP-MW-8	TURB	Turbidity	10/25/2023 14:49	2.27	NTU
GC-AP-MW-8	COND	Conductivity	10/25/2023 14:54	984.71	uS/cm
GC-AP-MW-8	DO	DO	10/25/2023 14:54	0.08	mg/L
GC-AP-MW-8	DTW	Depth to Water Detail	10/25/2023 14:54	14.62	ft
GC-AP-MW-8	ORP	Oxidation Reduction Potential	10/25/2023 14:54	66.94	mv
GC-AP-MW-8	PH	pH	10/25/2023 14:54	6.47	SU
GC-AP-MW-8	TEMP	Temperature	10/25/2023 14:54	20.85	C
GC-AP-MW-8	TURB	Turbidity	10/25/2023 14:54	2.24	NTU
GC-AP-MW-8	COND	Conductivity	10/25/2023 14:59	984.02	uS/cm
GC-AP-MW-8	DO	DO	10/25/2023 14:59	0.07	mg/L
GC-AP-MW-8	DTW	Depth to Water Detail	10/25/2023 14:59	14.62	ft
GC-AP-MW-8	ORP	Oxidation Reduction Potential	10/25/2023 14:59	35.52	mv
GC-AP-MW-8	PH	pH	10/25/2023 14:59	6.47	SU
GC-AP-MW-8	SULFIDE	Sulfide	10/25/2023 14:59	0	mg/L
GC-AP-MW-8	TEMP	Temperature	10/25/2023 14:59	20.87	C
GC-AP-MW-8	TURB	Turbidity	10/25/2023 14:59	2.03	NTU
GC-AP-MW-9	COND	Conductivity	10/25/2023 15:26	754.21	uS/cm
GC-AP-MW-9	DO	DO	10/25/2023 15:26	0.18	mg/L
GC-AP-MW-9	DTW	Depth to Water Detail	10/25/2023 15:26	13.08	ft
GC-AP-MW-9	ORP	Oxidation Reduction Potential	10/25/2023 15:26	4.48	mv
GC-AP-MW-9	PH	pH	10/25/2023 15:26	6.23	SU
GC-AP-MW-9	TEMP	Temperature	10/25/2023 15:26	20.41	C
GC-AP-MW-9	TURB	Turbidity	10/25/2023 15:26	17.6	NTU
GC-AP-MW-9	COND	Conductivity	10/25/2023 15:31	746.45	uS/cm
GC-AP-MW-9	DO	DO	10/25/2023 15:31	0.08	mg/L
GC-AP-MW-9	DTW	Depth to Water Detail	10/25/2023 15:31	13.08	ft
GC-AP-MW-9	ORP	Oxidation Reduction Potential	10/25/2023 15:31	2.75	mv
GC-AP-MW-9	PH	pH	10/25/2023 15:31	6.22	SU
GC-AP-MW-9	TEMP	Temperature	10/25/2023 15:31	20.3	C
GC-AP-MW-9	TURB	Turbidity	10/25/2023 15:31	17.8	NTU
GC-AP-MW-9	COND	Conductivity	10/25/2023 15:36	740.19	uS/cm
GC-AP-MW-9	DO	DO	10/25/2023 15:36	0.06	mg/L
GC-AP-MW-9	DTW	Depth to Water Detail	10/25/2023 15:36	13.08	ft
GC-AP-MW-9	ORP	Oxidation Reduction Potential	10/25/2023 15:36	1.71	mv
GC-AP-MW-9	PH	pH	10/25/2023 15:36	6.21	SU
GC-AP-MW-9	TEMP	Temperature	10/25/2023 15:36	20.27	C
GC-AP-MW-9	TURB	Turbidity	10/25/2023 15:36	22.7	NTU



**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-9	COND	Conductivity	10/25/2023 15:41	738.13	uS/cm
GC-AP-MW-9	DO	DO	10/25/2023 15:41	0.05	mg/L
GC-AP-MW-9	DTW	Depth to Water Detail	10/25/2023 15:41	13.08	ft
GC-AP-MW-9	ORP	Oxidation Reduction Potential	10/25/2023 15:41	0	mv
GC-AP-MW-9	PH	pH	10/25/2023 15:41	6.21	SU
GC-AP-MW-9	TEMP	Temperature	10/25/2023 15:41	20.29	C
GC-AP-MW-9	TURB	Turbidity	10/25/2023 15:41	12.53	NTU
GC-AP-MW-9	COND	Conductivity	10/25/2023 15:46	736.13	uS/cm
GC-AP-MW-9	DO	DO	10/25/2023 15:46	0.05	mg/L
GC-AP-MW-9	DTW	Depth to Water Detail	10/25/2023 15:46	13.08	ft
GC-AP-MW-9	ORP	Oxidation Reduction Potential	10/25/2023 15:46	-0.78	mv
GC-AP-MW-9	PH	pH	10/25/2023 15:46	6.21	SU
GC-AP-MW-9	TEMP	Temperature	10/25/2023 15:46	20.31	C
GC-AP-MW-9	TURB	Turbidity	10/25/2023 15:46	10.08	NTU
GC-AP-MW-9	COND	Conductivity	10/25/2023 15:51	733.3	uS/cm
GC-AP-MW-9	DO	DO	10/25/2023 15:51	0.04	mg/L
GC-AP-MW-9	DTW	Depth to Water Detail	10/25/2023 15:51	13.08	ft
GC-AP-MW-9	ORP	Oxidation Reduction Potential	10/25/2023 15:51	-1.6	mv
GC-AP-MW-9	PH	pH	10/25/2023 15:51	6.22	SU
GC-AP-MW-9	SULFIDE	Sulfide	10/25/2023 15:51	0	mg/L
GC-AP-MW-9	TEMP	Temperature	10/25/2023 15:51	20.24	C
GC-AP-MW-9	TURB	Turbidity	10/25/2023 15:51	6.47	NTU
GC-AP-MW-11	COND	Conductivity	10/25/2023 16:18	505.44	uS/cm
GC-AP-MW-11	DO	DO	10/25/2023 16:18	0.38	mg/L
GC-AP-MW-11	DTW	Depth to Water Detail	10/25/2023 16:18	21.87	ft
GC-AP-MW-11	ORP	Oxidation Reduction Potential	10/25/2023 16:18	21.33	mv
GC-AP-MW-11	PH	pH	10/25/2023 16:18	6.38	SU
GC-AP-MW-11	TEMP	Temperature	10/25/2023 16:18	21.75	C
GC-AP-MW-11	TURB	Turbidity	10/25/2023 16:18	2.53	NTU
GC-AP-MW-11	COND	Conductivity	10/25/2023 16:23	500.67	uS/cm
GC-AP-MW-11	DO	DO	10/25/2023 16:23	0.22	mg/L
GC-AP-MW-11	DTW	Depth to Water Detail	10/25/2023 16:23	21.87	ft
GC-AP-MW-11	ORP	Oxidation Reduction Potential	10/25/2023 16:23	21.67	mv
GC-AP-MW-11	PH	pH	10/25/2023 16:23	6.37	SU
GC-AP-MW-11	TEMP	Temperature	10/25/2023 16:23	21.65	C
GC-AP-MW-11	TURB	Turbidity	10/25/2023 16:23	2.4	NTU
GC-AP-MW-11	COND	Conductivity	10/25/2023 16:28	498.18	uS/cm
GC-AP-MW-11	DO	DO	10/25/2023 16:28	0.19	mg/L
GC-AP-MW-11	DTW	Depth to Water Detail	10/25/2023 16:28	21.87	ft
GC-AP-MW-11	ORP	Oxidation Reduction Potential	10/25/2023 16:28	19.82	mv
GC-AP-MW-11	PH	pH	10/25/2023 16:28	6.37	SU
GC-AP-MW-11	TEMP	Temperature	10/25/2023 16:28	21.62	C
GC-AP-MW-11	TURB	Turbidity	10/25/2023 16:28	2.31	NTU
GC-AP-MW-11	COND	Conductivity	10/25/2023 16:33	496.28	uS/cm
GC-AP-MW-11	DO	DO	10/25/2023 16:33	0.14	mg/L
GC-AP-MW-11	DTW	Depth to Water Detail	10/25/2023 16:33	21.87	ft
GC-AP-MW-11	ORP	Oxidation Reduction Potential	10/25/2023 16:33	18.49	mv
GC-AP-MW-11	PH	pH	10/25/2023 16:33	6.36	SU
GC-AP-MW-11	SULFIDE	Sulfide	10/25/2023 16:33	0	mg/L
GC-AP-MW-11	TEMP	Temperature	10/25/2023 16:33	21.56	C
GC-AP-MW-11	TURB	Turbidity	10/25/2023 16:33	2.81	NTU
GC-AP-PZ-4	COND	Conductivity	10/24/2023 14:04	611.77	uS/cm
GC-AP-PZ-4	DO	DO	10/24/2023 14:04	1.73	mg/L
GC-AP-PZ-4	DTW	Depth to Water Detail	10/24/2023 14:04	14.04	ft
GC-AP-PZ-4	ORP	Oxidation Reduction Potential	10/24/2023 14:04	87.58	mv
GC-AP-PZ-4	PH	pH	10/24/2023 14:04	5.5	SU
GC-AP-PZ-4	TEMP	Temperature	10/24/2023 14:04	23.98	C
GC-AP-PZ-4	TURB	Turbidity	10/24/2023 14:04	12.01	NTU
GC-AP-PZ-4	COND	Conductivity	10/24/2023 14:09	682.16	uS/cm
GC-AP-PZ-4	DO	DO	10/24/2023 14:09	1.4	mg/L

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-PZ-4	DTW	Depth to Water Detail	10/24/2023 14:09	14.22	ft
GC-AP-PZ-4	ORP	Oxidation Reduction Potential	10/24/2023 14:09	85.5	mv
GC-AP-PZ-4	PH	pH	10/24/2023 14:09	5.54	SU
GC-AP-PZ-4	TEMP	Temperature	10/24/2023 14:09	23.93	C
GC-AP-PZ-4	TURB	Turbidity	10/24/2023 14:09	10.08	NTU
GC-AP-PZ-4	COND	Conductivity	10/24/2023 14:14	799.9	uS/cm
GC-AP-PZ-4	DO	DO	10/24/2023 14:14	1.05	mg/L
GC-AP-PZ-4	DTW	Depth to Water Detail	10/24/2023 14:14	14.22	ft
GC-AP-PZ-4	ORP	Oxidation Reduction Potential	10/24/2023 14:14	88.59	mv
GC-AP-PZ-4	PH	pH	10/24/2023 14:14	5.48	SU
GC-AP-PZ-4	TEMP	Temperature	10/24/2023 14:14	24.01	C
GC-AP-PZ-4	TURB	Turbidity	10/24/2023 14:14	13.06	NTU
GC-AP-PZ-4	COND	Conductivity	10/24/2023 14:19	898.41	uS/cm
GC-AP-PZ-4	DO	DO	10/24/2023 14:19	0.8	mg/L
GC-AP-PZ-4	DTW	Depth to Water Detail	10/24/2023 14:19	14.22	ft
GC-AP-PZ-4	ORP	Oxidation Reduction Potential	10/24/2023 14:19	88.12	mv
GC-AP-PZ-4	PH	pH	10/24/2023 14:19	5.5	SU
GC-AP-PZ-4	TEMP	Temperature	10/24/2023 14:19	23.96	C
GC-AP-PZ-4	TURB	Turbidity	10/24/2023 14:19	5.99	NTU
GC-AP-PZ-4	COND	Conductivity	10/24/2023 14:24	949.54	uS/cm
GC-AP-PZ-4	DO	DO	10/24/2023 14:24	0.66	mg/L
GC-AP-PZ-4	DTW	Depth to Water Detail	10/24/2023 14:24	14.22	ft
GC-AP-PZ-4	ORP	Oxidation Reduction Potential	10/24/2023 14:24	90.32	mv
GC-AP-PZ-4	PH	pH	10/24/2023 14:24	5.44	SU
GC-AP-PZ-4	TEMP	Temperature	10/24/2023 14:24	24	C
GC-AP-PZ-4	TURB	Turbidity	10/24/2023 14:24	5.29	NTU
GC-AP-PZ-4	COND	Conductivity	10/24/2023 14:29	994.87	uS/cm
GC-AP-PZ-4	DO	DO	10/24/2023 14:29	0.55	mg/L
GC-AP-PZ-4	DTW	Depth to Water Detail	10/24/2023 14:29	14.22	ft
GC-AP-PZ-4	ORP	Oxidation Reduction Potential	10/24/2023 14:29	91.4	mv
GC-AP-PZ-4	PH	pH	10/24/2023 14:29	5.44	SU
GC-AP-PZ-4	TEMP	Temperature	10/24/2023 14:29	23.94	C
GC-AP-PZ-4	TURB	Turbidity	10/24/2023 14:29	3.61	NTU
GC-AP-PZ-4	COND	Conductivity	10/24/2023 14:34	1035.51	uS/cm
GC-AP-PZ-4	DO	DO	10/24/2023 14:34	0.45	mg/L
GC-AP-PZ-4	DTW	Depth to Water Detail	10/24/2023 14:34	14.22	ft
GC-AP-PZ-4	ORP	Oxidation Reduction Potential	10/24/2023 14:34	90.41	mv
GC-AP-PZ-4	PH	pH	10/24/2023 14:34	5.45	SU
GC-AP-PZ-4	TEMP	Temperature	10/24/2023 14:34	24.06	C
GC-AP-PZ-4	TURB	Turbidity	10/24/2023 14:34	3.64	NTU
GC-AP-PZ-4	COND	Conductivity	10/24/2023 14:39	1060.2	uS/cm
GC-AP-PZ-4	DO	DO	10/24/2023 14:39	0.39	mg/L
GC-AP-PZ-4	DTW	Depth to Water Detail	10/24/2023 14:39	14.22	ft
GC-AP-PZ-4	ORP	Oxidation Reduction Potential	10/24/2023 14:39	89.53	mv
GC-AP-PZ-4	PH	pH	10/24/2023 14:39	5.46	SU
GC-AP-PZ-4	TEMP	Temperature	10/24/2023 14:39	23.97	C
GC-AP-PZ-4	TURB	Turbidity	10/24/2023 14:39	3.15	NTU
GC-AP-PZ-4	COND	Conductivity	10/24/2023 14:44	1074.15	uS/cm
GC-AP-PZ-4	DO	DO	10/24/2023 14:44	0.36	mg/L
GC-AP-PZ-4	DTW	Depth to Water Detail	10/24/2023 14:44	14.22	ft
GC-AP-PZ-4	ORP	Oxidation Reduction Potential	10/24/2023 14:44	90.29	mv
GC-AP-PZ-4	PH	pH	10/24/2023 14:44	5.44	SU
GC-AP-PZ-4	SULFIDE	Sulfide	10/24/2023 14:44	0	mg/L
GC-AP-PZ-4	TEMP	Temperature	10/24/2023 14:44	24.04	C
GC-AP-PZ-4	TURB	Turbidity	10/24/2023 14:44	3.07	NTU
GC-AP-MW-26	COND	Conductivity	10/24/2023 8:55	87.16	uS/cm
GC-AP-MW-26	DO	DO	10/24/2023 8:55	2.48	mg/L
GC-AP-MW-26	DTW	Depth to Water Detail	10/24/2023 8:55	9.82	ft
GC-AP-MW-26	ORP	Oxidation Reduction Potential	10/24/2023 8:55	150.45	mv
GC-AP-MW-26	PH	pH	10/24/2023 8:55	5.75	SU

**Field Parameter Summary  
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WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-26	TEMP	Temperature	10/24/2023 8:55	19.16	C
GC-AP-MW-26	TURB	Turbidity	10/24/2023 8:55	1.98	NTU
GC-AP-MW-26	COND	Conductivity	10/24/2023 9:00	81.61	uS/cm
GC-AP-MW-26	DO	DO	10/24/2023 9:00	2.4	mg/L
GC-AP-MW-26	DTW	Depth to Water Detail	10/24/2023 9:00	9.82	ft
GC-AP-MW-26	ORP	Oxidation Reduction Potential	10/24/2023 9:00	151.35	mv
GC-AP-MW-26	PH	pH	10/24/2023 9:00	5.68	SU
GC-AP-MW-26	TEMP	Temperature	10/24/2023 9:00	19.16	C
GC-AP-MW-26	TURB	Turbidity	10/24/2023 9:00	0.52	NTU
GC-AP-MW-26	COND	Conductivity	10/24/2023 9:05	80.55	uS/cm
GC-AP-MW-26	DO	DO	10/24/2023 9:05	2.38	mg/L
GC-AP-MW-26	DTW	Depth to Water Detail	10/24/2023 9:05	9.82	ft
GC-AP-MW-26	ORP	Oxidation Reduction Potential	10/24/2023 9:05	155.22	mv
GC-AP-MW-26	PH	pH	10/24/2023 9:05	5.64	SU
GC-AP-MW-26	TEMP	Temperature	10/24/2023 9:05	19.18	C
GC-AP-MW-26	TURB	Turbidity	10/24/2023 9:05	0.49	NTU
GC-AP-MW-26	COND	Conductivity	10/24/2023 9:10	79.15	uS/cm
GC-AP-MW-26	DO	DO	10/24/2023 9:10	2.37	mg/L
GC-AP-MW-26	DTW	Depth to Water Detail	10/24/2023 9:10	9.82	ft
GC-AP-MW-26	ORP	Oxidation Reduction Potential	10/24/2023 9:10	159.63	mv
GC-AP-MW-26	PH	pH	10/24/2023 9:10	5.62	SU
GC-AP-MW-26	SULFIDE	Sulfide	10/24/2023 9:10	0	mg/L
GC-AP-MW-26	TEMP	Temperature	10/24/2023 9:10	19.21	C
GC-AP-MW-26	TURB	Turbidity	10/24/2023 9:10	0.42	NTU
GC-AP-MW-27	COND	Conductivity	10/24/2023 9:48	35.3	uS/cm
GC-AP-MW-27	DO	DO	10/24/2023 9:48	5.71	mg/L
GC-AP-MW-27	DTW	Depth to Water Detail	10/24/2023 9:48	11.46	ft
GC-AP-MW-27	ORP	Oxidation Reduction Potential	10/24/2023 9:48	230.01	mv
GC-AP-MW-27	PH	pH	10/24/2023 9:48	4.99	SU
GC-AP-MW-27	TEMP	Temperature	10/24/2023 9:48	19.54	C
GC-AP-MW-27	TURB	Turbidity	10/24/2023 9:48	0.24	NTU
GC-AP-MW-27	COND	Conductivity	10/24/2023 9:53	35.22	uS/cm
GC-AP-MW-27	DO	DO	10/24/2023 9:53	5.74	mg/L
GC-AP-MW-27	DTW	Depth to Water Detail	10/24/2023 9:53	11.46	ft
GC-AP-MW-27	ORP	Oxidation Reduction Potential	10/24/2023 9:53	242.67	mv
GC-AP-MW-27	PH	pH	10/24/2023 9:53	4.98	SU
GC-AP-MW-27	TEMP	Temperature	10/24/2023 9:53	19.5	C
GC-AP-MW-27	TURB	Turbidity	10/24/2023 9:53	0.46	NTU
GC-AP-MW-27	COND	Conductivity	10/24/2023 9:58	35.97	uS/cm
GC-AP-MW-27	DO	DO	10/24/2023 9:58	5.73	mg/L
GC-AP-MW-27	DTW	Depth to Water Detail	10/24/2023 9:58	11.46	ft
GC-AP-MW-27	ORP	Oxidation Reduction Potential	10/24/2023 9:58	252.87	mv
GC-AP-MW-27	PH	pH	10/24/2023 9:58	4.97	SU
GC-AP-MW-27	TEMP	Temperature	10/24/2023 9:58	19.53	C
GC-AP-MW-27	TURB	Turbidity	10/24/2023 9:58	0.45	NTU
GC-AP-MW-27	COND	Conductivity	10/24/2023 10:03	35.26	uS/cm
GC-AP-MW-27	DO	DO	10/24/2023 10:03	5.7	mg/L
GC-AP-MW-27	DTW	Depth to Water Detail	10/24/2023 10:03	11.46	ft
GC-AP-MW-27	ORP	Oxidation Reduction Potential	10/24/2023 10:03	258.82	mv
GC-AP-MW-27	PH	pH	10/24/2023 10:03	4.95	SU
GC-AP-MW-27	SULFIDE	Sulfide	10/24/2023 10:03	0	mg/L
GC-AP-MW-27	TEMP	Temperature	10/24/2023 10:03	19.55	C
GC-AP-MW-27	TURB	Turbidity	10/24/2023 10:03	0.37	NTU
GC-AP-MW-28	COND	Conductivity	10/24/2023 10:40	42.55	uS/cm
GC-AP-MW-28	DO	DO	10/24/2023 10:40	8.02	mg/L
GC-AP-MW-28	DTW	Depth to Water Detail	10/24/2023 10:40	10.98	ft
GC-AP-MW-28	ORP	Oxidation Reduction Potential	10/24/2023 10:40	263.06	mv
GC-AP-MW-28	PH	pH	10/24/2023 10:40	4.72	SU
GC-AP-MW-28	TEMP	Temperature	10/24/2023 10:40	19.46	C
GC-AP-MW-28	TURB	Turbidity	10/24/2023 10:40	0.25	NTU

**Field Parameter Summary  
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WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-28	COND	Conductivity	10/24/2023 10:45	42.53	uS/cm
GC-AP-MW-28	DO	DO	10/24/2023 10:45	7.93	mg/L
GC-AP-MW-28	DTW	Depth to Water Detail	10/24/2023 10:45	10.98	ft
GC-AP-MW-28	ORP	Oxidation Reduction Potential	10/24/2023 10:45	270.56	mv
GC-AP-MW-28	PH	pH	10/24/2023 10:45	4.75	SU
GC-AP-MW-28	TEMP	Temperature	10/24/2023 10:45	19.47	C
GC-AP-MW-28	TURB	Turbidity	10/24/2023 10:45	0.14	NTU
GC-AP-MW-28	COND	Conductivity	10/24/2023 10:50	42.47	uS/cm
GC-AP-MW-28	DO	DO	10/24/2023 10:50	7.85	mg/L
GC-AP-MW-28	DTW	Depth to Water Detail	10/24/2023 10:50	10.98	ft
GC-AP-MW-28	ORP	Oxidation Reduction Potential	10/24/2023 10:50	273.66	mv
GC-AP-MW-28	PH	pH	10/24/2023 10:50	4.8	SU
GC-AP-MW-28	TEMP	Temperature	10/24/2023 10:50	19.48	C
GC-AP-MW-28	TURB	Turbidity	10/24/2023 10:50	0.03	NTU
GC-AP-MW-28	COND	Conductivity	10/24/2023 10:55	42.12	uS/cm
GC-AP-MW-28	DO	DO	10/24/2023 10:55	7.74	mg/L
GC-AP-MW-28	DTW	Depth to Water Detail	10/24/2023 10:55	10.98	ft
GC-AP-MW-28	ORP	Oxidation Reduction Potential	10/24/2023 10:55	278.06	mv
GC-AP-MW-28	PH	pH	10/24/2023 10:55	4.81	SU
GC-AP-MW-28	SULFIDE	Sulfide	10/24/2023 10:55	0	mg/L
GC-AP-MW-28	TEMP	Temperature	10/24/2023 10:55	19.49	C
GC-AP-MW-28	TURB	Turbidity	10/24/2023 10:55	0.06	NTU
GC-AP-MW-29	COND	Conductivity	10/24/2023 11:38	7.5	uS/cm
GC-AP-MW-29	DO	DO	10/24/2023 11:38	8.23	mg/L
GC-AP-MW-29	DTW	Depth to Water Detail	10/24/2023 11:38	10.05	ft
GC-AP-MW-29	ORP	Oxidation Reduction Potential	10/24/2023 11:38	249.67	mv
GC-AP-MW-29	PH	pH	10/24/2023 11:38	4.97	SU
GC-AP-MW-29	TEMP	Temperature	10/24/2023 11:38	19.26	C
GC-AP-MW-29	TURB	Turbidity	10/24/2023 11:38	0.15	NTU
GC-AP-MW-29	COND	Conductivity	10/24/2023 11:43	7.67	uS/cm
GC-AP-MW-29	DO	DO	10/24/2023 11:43	8.19	mg/L
GC-AP-MW-29	DTW	Depth to Water Detail	10/24/2023 11:43	10.05	ft
GC-AP-MW-29	ORP	Oxidation Reduction Potential	10/24/2023 11:43	265.24	mv
GC-AP-MW-29	PH	pH	10/24/2023 11:43	4.96	SU
GC-AP-MW-29	TEMP	Temperature	10/24/2023 11:43	19.2	C
GC-AP-MW-29	TURB	Turbidity	10/24/2023 11:43	0.22	NTU
GC-AP-MW-29	COND	Conductivity	10/24/2023 11:48	7.58	uS/cm
GC-AP-MW-29	DO	DO	10/24/2023 11:48	8.16	mg/L
GC-AP-MW-29	DTW	Depth to Water Detail	10/24/2023 11:48	10.05	ft
GC-AP-MW-29	ORP	Oxidation Reduction Potential	10/24/2023 11:48	269.32	mv
GC-AP-MW-29	PH	pH	10/24/2023 11:48	4.98	SU
GC-AP-MW-29	TEMP	Temperature	10/24/2023 11:48	19.18	C
GC-AP-MW-29	TURB	Turbidity	10/24/2023 11:48	0.14	NTU
GC-AP-MW-29	COND	Conductivity	10/24/2023 11:53	7.38	uS/cm
GC-AP-MW-29	DO	DO	10/24/2023 11:53	8.12	mg/L
GC-AP-MW-29	DTW	Depth to Water Detail	10/24/2023 11:53	10.05	ft
GC-AP-MW-29	ORP	Oxidation Reduction Potential	10/24/2023 11:53	273.6	mv
GC-AP-MW-29	PH	pH	10/24/2023 11:53	4.99	SU
GC-AP-MW-29	SULFIDE	Sulfide	10/24/2023 11:53	0	mg/L
GC-AP-MW-29	TEMP	Temperature	10/24/2023 11:53	19.18	C
GC-AP-MW-29	TURB	Turbidity	10/24/2023 11:53	0.28	NTU
GC-AP-MW-30	COND	Conductivity	10/24/2023 12:27	29.77	uS/cm
GC-AP-MW-30	DO	DO	10/24/2023 12:27	6.52	mg/L
GC-AP-MW-30	DTW	Depth to Water Detail	10/24/2023 12:27	11.11	ft
GC-AP-MW-30	ORP	Oxidation Reduction Potential	10/24/2023 12:27	260.81	mv
GC-AP-MW-30	PH	pH	10/24/2023 12:27	5.23	SU
GC-AP-MW-30	TEMP	Temperature	10/24/2023 12:27	19.28	C
GC-AP-MW-30	TURB	Turbidity	10/24/2023 12:27	0	NTU
GC-AP-MW-30	COND	Conductivity	10/24/2023 12:32	29.46	uS/cm
GC-AP-MW-30	DO	DO	10/24/2023 12:32	6.29	mg/L

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-30	DTW	Depth to Water Detail	10/24/2023 12:32	11.11	ft
GC-AP-MW-30	ORP	Oxidation Reduction Potential	10/24/2023 12:32	267.78	mv
GC-AP-MW-30	PH	pH	10/24/2023 12:32	5.25	SU
GC-AP-MW-30	TEMP	Temperature	10/24/2023 12:32	19.29	C
GC-AP-MW-30	TURB	Turbidity	10/24/2023 12:32	0.08	NTU
GC-AP-MW-30	COND	Conductivity	10/24/2023 12:37	29.4	uS/cm
GC-AP-MW-30	DO	DO	10/24/2023 12:37	6.22	mg/L
GC-AP-MW-30	DTW	Depth to Water Detail	10/24/2023 12:37	11.11	ft
GC-AP-MW-30	ORP	Oxidation Reduction Potential	10/24/2023 12:37	272.19	mv
GC-AP-MW-30	PH	pH	10/24/2023 12:37	5.26	SU
GC-AP-MW-30	TEMP	Temperature	10/24/2023 12:37	19.34	C
GC-AP-MW-30	TURB	Turbidity	10/24/2023 12:37	0.18	NTU
GC-AP-MW-30	COND	Conductivity	10/24/2023 12:42	29.17	uS/cm
GC-AP-MW-30	DO	DO	10/24/2023 12:42	6.19	mg/L
GC-AP-MW-30	DTW	Depth to Water Detail	10/24/2023 12:42	11.11	ft
GC-AP-MW-30	ORP	Oxidation Reduction Potential	10/24/2023 12:42	275.65	mv
GC-AP-MW-30	PH	pH	10/24/2023 12:42	5.25	SU
GC-AP-MW-30	SULFIDE	Sulfide	10/24/2023 12:42	0	mg/L
GC-AP-MW-30	TEMP	Temperature	10/24/2023 12:42	19.31	C
GC-AP-MW-30	TURB	Turbidity	10/24/2023 12:42	0.16	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 14:27	222.51	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 14:27	0.18	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 14:27	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 14:27	82.06	mv
GC-AP-MW-36H	PH	pH	10/25/2023 14:27	7.47	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 14:27	23.8	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 14:27	16.4	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 14:32	226.28	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 14:32	0.16	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 14:32	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 14:32	70.84	mv
GC-AP-MW-36H	PH	pH	10/25/2023 14:32	7.66	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 14:32	23.82	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 14:32	16.9	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 14:37	224.05	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 14:37	0.14	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 14:37	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 14:37	62.89	mv
GC-AP-MW-36H	PH	pH	10/25/2023 14:37	7.74	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 14:37	23.78	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 14:37	17.6	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 14:42	221.55	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 14:42	0.14	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 14:42	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 14:42	56.17	mv
GC-AP-MW-36H	PH	pH	10/25/2023 14:42	7.82	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 14:42	23.86	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 14:42	17.2	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 14:47	231.68	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 14:47	0.14	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 14:47	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 14:47	51.28	mv
GC-AP-MW-36H	PH	pH	10/25/2023 14:47	7.85	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 14:47	23.8	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 14:47	16.5	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 14:52	212.76	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 14:52	0.13	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 14:52	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 14:52	47.45	mv
GC-AP-MW-36H	PH	pH	10/25/2023 14:52	7.88	SU

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 14:52	23.81	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 14:52	15.5	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 14:57	213.49	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 14:57	0.13	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 14:57	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 14:57	43.85	mv
GC-AP-MW-36H	PH	pH	10/25/2023 14:57	7.91	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 14:57	23.78	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 14:57	13.7	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 15:02	219.98	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 15:02	0.13	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 15:02	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 15:02	41.72	mv
GC-AP-MW-36H	PH	pH	10/25/2023 15:02	7.92	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 15:02	23.76	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 15:02	14.1	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 15:07	208.42	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 15:07	0.13	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 15:07	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 15:07	39.26	mv
GC-AP-MW-36H	PH	pH	10/25/2023 15:07	7.95	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 15:07	23.77	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 15:07	13.8	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 15:12	223.95	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 15:12	0.13	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 15:12	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 15:12	37.31	mv
GC-AP-MW-36H	PH	pH	10/25/2023 15:12	7.95	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 15:12	23.74	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 15:12	12.9	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 15:17	212.88	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 15:17	0.13	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 15:17	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 15:17	35.69	mv
GC-AP-MW-36H	PH	pH	10/25/2023 15:17	7.95	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 15:17	23.72	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 15:17	12.8	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 15:22	261.3	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 15:22	0.19	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 15:22	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 15:22	34.21	mv
GC-AP-MW-36H	PH	pH	10/25/2023 15:22	7.96	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 15:22	23.76	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 15:22	12.5	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 15:27	261.38	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 15:27	0.17	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 15:27	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 15:27	32.74	mv
GC-AP-MW-36H	PH	pH	10/25/2023 15:27	7.97	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 15:27	23.71	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 15:27	12.7	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 15:32	261.39	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 15:32	0.15	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 15:32	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 15:32	32.02	mv
GC-AP-MW-36H	PH	pH	10/25/2023 15:32	7.97	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 15:32	23.7	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 15:32	12.5	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 15:37	261.81	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 15:37	0.15	mg/L

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 15:37	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 15:37	30.14	mv
GC-AP-MW-36H	PH	pH	10/25/2023 15:37	7.99	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 15:37	23.72	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 15:37	12.5	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 15:42	261.91	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 15:42	0.14	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 15:42	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 15:42	28.85	mv
GC-AP-MW-36H	PH	pH	10/25/2023 15:42	8	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 15:42	23.72	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 15:42	12.4	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 15:47	261.75	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 15:47	0.14	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 15:47	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 15:47	27.82	mv
GC-AP-MW-36H	PH	pH	10/25/2023 15:47	7.99	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 15:47	23.71	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 15:47	12.1	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 15:52	261.73	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 15:52	0.14	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 15:52	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 15:52	26.7	mv
GC-AP-MW-36H	PH	pH	10/25/2023 15:52	7.99	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 15:52	23.65	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 15:52	11.7	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 15:57	262.11	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 15:57	0.14	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 15:57	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 15:57	25.97	mv
GC-AP-MW-36H	PH	pH	10/25/2023 15:57	8	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 15:57	23.62	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 15:57	11.9	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 16:02	262.09	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 16:02	0.13	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 16:02	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 16:02	24.9	mv
GC-AP-MW-36H	PH	pH	10/25/2023 16:02	8.01	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 16:02	23.63	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 16:02	11.8	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 16:07	262.46	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 16:07	0.39	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 16:07	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 16:07	24.77	mv
GC-AP-MW-36H	PH	pH	10/25/2023 16:07	8.02	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 16:07	23.68	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 16:07	11.9	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 16:12	262.14	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 16:12	0.19	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 16:12	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 16:12	23.96	mv
GC-AP-MW-36H	PH	pH	10/25/2023 16:12	8.01	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 16:12	23.64	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 16:12	11.9	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 16:17	262.05	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 16:17	0.18	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 16:17	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 16:17	22.59	mv
GC-AP-MW-36H	PH	pH	10/25/2023 16:17	8.02	SU
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 16:17	23.62	C

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 16:17	11.8	NTU
GC-AP-MW-36H	COND	Conductivity	10/25/2023 16:22	258.01	uS/cm
GC-AP-MW-36H	DO	DO	10/25/2023 16:22	0.17	mg/L
GC-AP-MW-36H	DTW	Depth to Water Detail	10/25/2023 16:22	27.02	ft
GC-AP-MW-36H	ORP	Oxidation Reduction Potential	10/25/2023 16:22	22.52	mv
GC-AP-MW-36H	PH	pH	10/25/2023 16:22	7.98	SU
GC-AP-MW-36H	SULFIDE	Sulfide	10/25/2023 16:22	0	mg/L
GC-AP-MW-36H	TEMP	Temperature	10/25/2023 16:22	23.65	C
GC-AP-MW-36H	TURB	Turbidity	10/25/2023 16:22	9.78	NTU
GC-AP-MW-37H	COND	Conductivity	10/25/2023 8:51	1062.25	uS/cm
GC-AP-MW-37H	DO	DO	10/25/2023 8:51	0.35	mg/L
GC-AP-MW-37H	DTW	Depth to Water Detail	10/25/2023 8:51	24.56	ft
GC-AP-MW-37H	ORP	Oxidation Reduction Potential	10/25/2023 8:51	-62.75	mv
GC-AP-MW-37H	PH	pH	10/25/2023 8:51	6.36	SU
GC-AP-MW-37H	TEMP	Temperature	10/25/2023 8:51	21.24	C
GC-AP-MW-37H	TURB	Turbidity	10/25/2023 8:51	4.01	NTU
GC-AP-MW-37H	COND	Conductivity	10/25/2023 8:56	1056.73	uS/cm
GC-AP-MW-37H	DO	DO	10/25/2023 8:56	0.29	mg/L
GC-AP-MW-37H	DTW	Depth to Water Detail	10/25/2023 8:56	24.91	ft
GC-AP-MW-37H	ORP	Oxidation Reduction Potential	10/25/2023 8:56	-64.2	mv
GC-AP-MW-37H	PH	pH	10/25/2023 8:56	6.36	SU
GC-AP-MW-37H	TEMP	Temperature	10/25/2023 8:56	21.35	C
GC-AP-MW-37H	TURB	Turbidity	10/25/2023 8:56	0.38	NTU
GC-AP-MW-37H	COND	Conductivity	10/25/2023 9:01	1035.05	uS/cm
GC-AP-MW-37H	DO	DO	10/25/2023 9:01	0.26	mg/L
GC-AP-MW-37H	DTW	Depth to Water Detail	10/25/2023 9:01	25.21	ft
GC-AP-MW-37H	ORP	Oxidation Reduction Potential	10/25/2023 9:01	-66.85	mv
GC-AP-MW-37H	PH	pH	10/25/2023 9:01	6.37	SU
GC-AP-MW-37H	TEMP	Temperature	10/25/2023 9:01	21.43	C
GC-AP-MW-37H	TURB	Turbidity	10/25/2023 9:01	1.84	NTU
GC-AP-MW-37H	COND	Conductivity	10/25/2023 9:06	990.46	uS/cm
GC-AP-MW-37H	DO	DO	10/25/2023 9:06	0.25	mg/L
GC-AP-MW-37H	DTW	Depth to Water Detail	10/25/2023 9:06	25.51	ft
GC-AP-MW-37H	ORP	Oxidation Reduction Potential	10/25/2023 9:06	-66.8	mv
GC-AP-MW-37H	PH	pH	10/25/2023 9:06	6.38	SU
GC-AP-MW-37H	TEMP	Temperature	10/25/2023 9:06	21.45	C
GC-AP-MW-37H	TURB	Turbidity	10/25/2023 9:06	3.82	NTU
GC-AP-MW-37H	COND	Conductivity	10/25/2023 9:11	985.37	uS/cm
GC-AP-MW-37H	DO	DO	10/25/2023 9:11	0.24	mg/L
GC-AP-MW-37H	DTW	Depth to Water Detail	10/25/2023 9:11	25.7	ft
GC-AP-MW-37H	ORP	Oxidation Reduction Potential	10/25/2023 9:11	-65.76	mv
GC-AP-MW-37H	PH	pH	10/25/2023 9:11	6.37	SU
GC-AP-MW-37H	TEMP	Temperature	10/25/2023 9:11	21.52	C
GC-AP-MW-37H	TURB	Turbidity	10/25/2023 9:11	2.72	NTU
GC-AP-MW-37H	COND	Conductivity	10/25/2023 9:16	986.17	uS/cm
GC-AP-MW-37H	DO	DO	10/25/2023 9:16	0.23	mg/L
GC-AP-MW-37H	DTW	Depth to Water Detail	10/25/2023 9:16	25.86	ft
GC-AP-MW-37H	ORP	Oxidation Reduction Potential	10/25/2023 9:16	-64.74	mv
GC-AP-MW-37H	PH	pH	10/25/2023 9:16	6.36	SU
GC-AP-MW-37H	TEMP	Temperature	10/25/2023 9:16	21.55	C
GC-AP-MW-37H	TURB	Turbidity	10/25/2023 9:16	2.94	NTU
GC-AP-MW-37H	COND	Conductivity	10/25/2023 9:21	989.32	uS/cm
GC-AP-MW-37H	DO	DO	10/25/2023 9:21	0.2	mg/L
GC-AP-MW-37H	DTW	Depth to Water Detail	10/25/2023 9:21	25.99	ft
GC-AP-MW-37H	ORP	Oxidation Reduction Potential	10/25/2023 9:21	-65.5	mv
GC-AP-MW-37H	PH	pH	10/25/2023 9:21	6.35	SU
GC-AP-MW-37H	SULFIDE	Sulfide	10/25/2023 9:21	0	mg/L
GC-AP-MW-37H	TEMP	Temperature	10/25/2023 9:21	21.55	C
GC-AP-MW-37H	TURB	Turbidity	10/25/2023 9:21	2.16	NTU
GC-AP-MW-38H	COND	Conductivity	10/23/2023 14:06	424.8	uS/cm



**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-38H	DO	DO	10/23/2023 14:06	3.1	mg/L
GC-AP-MW-38H	DTW	Depth to Water Detail	10/23/2023 14:06	21.21	ft
GC-AP-MW-38H	ORP	Oxidation Reduction Potential	10/23/2023 14:06	43.89	mv
GC-AP-MW-38H	PH	pH	10/23/2023 14:06	6.59	SU
GC-AP-MW-38H	TEMP	Temperature	10/23/2023 14:06	24.17	C
GC-AP-MW-38H	TURB	Turbidity	10/23/2023 14:06	5.88	NTU
GC-AP-MW-38H	COND	Conductivity	10/23/2023 14:11	414.69	uS/cm
GC-AP-MW-38H	DO	DO	10/23/2023 14:11	2.81	mg/L
GC-AP-MW-38H	DTW	Depth to Water Detail	10/23/2023 14:11	21.32	ft
GC-AP-MW-38H	ORP	Oxidation Reduction Potential	10/23/2023 14:11	49.05	mv
GC-AP-MW-38H	PH	pH	10/23/2023 14:11	6.55	SU
GC-AP-MW-38H	TEMP	Temperature	10/23/2023 14:11	24.21	C
GC-AP-MW-38H	TURB	Turbidity	10/23/2023 14:11	4.84	NTU
GC-AP-MW-38H	COND	Conductivity	10/23/2023 14:16	391.46	uS/cm
GC-AP-MW-38H	DO	DO	10/23/2023 14:16	2.26	mg/L
GC-AP-MW-38H	DTW	Depth to Water Detail	10/23/2023 14:16	21.4	ft
GC-AP-MW-38H	ORP	Oxidation Reduction Potential	10/23/2023 14:16	40.08	mv
GC-AP-MW-38H	PH	pH	10/23/2023 14:16	6.46	SU
GC-AP-MW-38H	TEMP	Temperature	10/23/2023 14:16	24.12	C
GC-AP-MW-38H	TURB	Turbidity	10/23/2023 14:16	2.15	NTU
GC-AP-MW-38H	COND	Conductivity	10/23/2023 14:21	401.38	uS/cm
GC-AP-MW-38H	DO	DO	10/23/2023 14:21	2.53	mg/L
GC-AP-MW-38H	DTW	Depth to Water Detail	10/23/2023 14:21	21.53	ft
GC-AP-MW-38H	ORP	Oxidation Reduction Potential	10/23/2023 14:21	25.88	mv
GC-AP-MW-38H	PH	pH	10/23/2023 14:21	6.5	SU
GC-AP-MW-38H	TEMP	Temperature	10/23/2023 14:21	24.12	C
GC-AP-MW-38H	TURB	Turbidity	10/23/2023 14:21	2.04	NTU
GC-AP-MW-38H	COND	Conductivity	10/23/2023 14:26	421.97	uS/cm
GC-AP-MW-38H	DO	DO	10/23/2023 14:26	3.11	mg/L
GC-AP-MW-38H	DTW	Depth to Water Detail	10/23/2023 14:26	21.66	ft
GC-AP-MW-38H	ORP	Oxidation Reduction Potential	10/23/2023 14:26	21.44	mv
GC-AP-MW-38H	PH	pH	10/23/2023 14:26	6.57	SU
GC-AP-MW-38H	TEMP	Temperature	10/23/2023 14:26	24.19	C
GC-AP-MW-38H	TURB	Turbidity	10/23/2023 14:26	1.97	NTU
GC-AP-MW-38H	COND	Conductivity	10/23/2023 14:31	435.72	uS/cm
GC-AP-MW-38H	DO	DO	10/23/2023 14:31	3.58	mg/L
GC-AP-MW-38H	DTW	Depth to Water Detail	10/23/2023 14:31	21.78	ft
GC-AP-MW-38H	ORP	Oxidation Reduction Potential	10/23/2023 14:31	21.97	mv
GC-AP-MW-38H	PH	pH	10/23/2023 14:31	6.61	SU
GC-AP-MW-38H	TEMP	Temperature	10/23/2023 14:31	23.96	C
GC-AP-MW-38H	TURB	Turbidity	10/23/2023 14:31	1.48	NTU
GC-AP-MW-38H	COND	Conductivity	10/23/2023 14:36	439.96	uS/cm
GC-AP-MW-38H	DO	DO	10/23/2023 14:36	3.71	mg/L
GC-AP-MW-38H	DTW	Depth to Water Detail	10/23/2023 14:36	21.82	ft
GC-AP-MW-38H	ORP	Oxidation Reduction Potential	10/23/2023 14:36	23.24	mv
GC-AP-MW-38H	PH	pH	10/23/2023 14:36	6.63	SU
GC-AP-MW-38H	TEMP	Temperature	10/23/2023 14:36	23.97	C
GC-AP-MW-38H	TURB	Turbidity	10/23/2023 14:36	3.01	NTU
GC-AP-MW-38H	COND	Conductivity	10/23/2023 14:41	438.86	uS/cm
GC-AP-MW-38H	DO	DO	10/23/2023 14:41	3.73	mg/L
GC-AP-MW-38H	DTW	Depth to Water Detail	10/23/2023 14:41	21.87	ft
GC-AP-MW-38H	ORP	Oxidation Reduction Potential	10/23/2023 14:41	21.92	mv
GC-AP-MW-38H	PH	pH	10/23/2023 14:41	6.63	SU
GC-AP-MW-38H	SULFIDE	Sulfide	10/23/2023 14:41	0	mg/L
GC-AP-MW-38H	TEMP	Temperature	10/23/2023 14:41	23.97	C
GC-AP-MW-38H	TURB	Turbidity	10/23/2023 14:41	2.54	NTU
GC-AP-MW-40H	COND	Conductivity	10/24/2023 14:28	608.38	uS/cm
GC-AP-MW-40H	DO	DO	10/24/2023 14:28	0.08	mg/L
GC-AP-MW-40H	DTW	Depth to Water Detail	10/24/2023 14:28	13.94	ft
GC-AP-MW-40H	ORP	Oxidation Reduction Potential	10/24/2023 14:28	116.11	mv

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-40H	PH	pH	10/24/2023 14:28	5.74	SU
GC-AP-MW-40H	TEMP	Temperature	10/24/2023 14:28	19.59	C
GC-AP-MW-40H	TURB	Turbidity	10/24/2023 14:28	0.16	NTU
GC-AP-MW-40H	COND	Conductivity	10/24/2023 14:33	628.89	uS/cm
GC-AP-MW-40H	DO	DO	10/24/2023 14:33	0.07	mg/L
GC-AP-MW-40H	DTW	Depth to Water Detail	10/24/2023 14:33	13.94	ft
GC-AP-MW-40H	ORP	Oxidation Reduction Potential	10/24/2023 14:33	118.68	mv
GC-AP-MW-40H	PH	pH	10/24/2023 14:33	5.74	SU
GC-AP-MW-40H	TEMP	Temperature	10/24/2023 14:33	19.62	C
GC-AP-MW-40H	TURB	Turbidity	10/24/2023 14:33	0.26	NTU
GC-AP-MW-40H	COND	Conductivity	10/24/2023 14:38	647.64	uS/cm
GC-AP-MW-40H	DO	DO	10/24/2023 14:38	0.07	mg/L
GC-AP-MW-40H	DTW	Depth to Water Detail	10/24/2023 14:38	13.94	ft
GC-AP-MW-40H	ORP	Oxidation Reduction Potential	10/24/2023 14:38	120.39	mv
GC-AP-MW-40H	PH	pH	10/24/2023 14:38	5.76	SU
GC-AP-MW-40H	TEMP	Temperature	10/24/2023 14:38	19.62	C
GC-AP-MW-40H	TURB	Turbidity	10/24/2023 14:38	0.05	NTU
GC-AP-MW-40H	COND	Conductivity	10/24/2023 14:43	645.17	uS/cm
GC-AP-MW-40H	DO	DO	10/24/2023 14:43	0.06	mg/L
GC-AP-MW-40H	DTW	Depth to Water Detail	10/24/2023 14:43	13.94	ft
GC-AP-MW-40H	ORP	Oxidation Reduction Potential	10/24/2023 14:43	120.7	mv
GC-AP-MW-40H	PH	pH	10/24/2023 14:43	5.78	SU
GC-AP-MW-40H	SULFIDE	Sulfide	10/24/2023 14:43	0	mg/L
GC-AP-MW-40H	TEMP	Temperature	10/24/2023 14:43	19.6	C
GC-AP-MW-40H	TURB	Turbidity	10/24/2023 14:43	0.18	NTU
GC-AP-MW-15	COND	Conductivity	10/24/2023 15:38	518.69	uS/cm
GC-AP-MW-15	DO	DO	10/24/2023 15:38	0.7	mg/L
GC-AP-MW-15	DTW	Depth to Water Detail	10/24/2023 15:38	18.01	ft
GC-AP-MW-15	ORP	Oxidation Reduction Potential	10/24/2023 15:38	47.62	mv
GC-AP-MW-15	PH	pH	10/24/2023 15:38	6.21	SU
GC-AP-MW-15	TEMP	Temperature	10/24/2023 15:38	19.63	C
GC-AP-MW-15	TURB	Turbidity	10/24/2023 15:38	0.07	NTU
GC-AP-MW-15	COND	Conductivity	10/24/2023 15:43	578.33	uS/cm
GC-AP-MW-15	DO	DO	10/24/2023 15:43	0.59	mg/L
GC-AP-MW-15	DTW	Depth to Water Detail	10/24/2023 15:43	18.01	ft
GC-AP-MW-15	ORP	Oxidation Reduction Potential	10/24/2023 15:43	52.94	mv
GC-AP-MW-15	PH	pH	10/24/2023 15:43	6.25	SU
GC-AP-MW-15	TEMP	Temperature	10/24/2023 15:43	19.59	C
GC-AP-MW-15	TURB	Turbidity	10/24/2023 15:43	0.19	NTU
GC-AP-MW-15	COND	Conductivity	10/24/2023 15:48	574.62	uS/cm
GC-AP-MW-15	DO	DO	10/24/2023 15:48	0.53	mg/L
GC-AP-MW-15	DTW	Depth to Water Detail	10/24/2023 15:48	18.01	ft
GC-AP-MW-15	ORP	Oxidation Reduction Potential	10/24/2023 15:48	54.67	mv
GC-AP-MW-15	PH	pH	10/24/2023 15:48	6.27	SU
GC-AP-MW-15	TEMP	Temperature	10/24/2023 15:48	19.73	C
GC-AP-MW-15	TURB	Turbidity	10/24/2023 15:48	0.64	NTU
GC-AP-MW-15	COND	Conductivity	10/24/2023 15:53	520.45	uS/cm
GC-AP-MW-15	DO	DO	10/24/2023 15:53	0.5	mg/L
GC-AP-MW-15	DTW	Depth to Water Detail	10/24/2023 15:53	18.01	ft
GC-AP-MW-15	ORP	Oxidation Reduction Potential	10/24/2023 15:53	54.79	mv
GC-AP-MW-15	PH	pH	10/24/2023 15:53	6.28	SU
GC-AP-MW-15	TEMP	Temperature	10/24/2023 15:53	19.7	C
GC-AP-MW-15	TURB	Turbidity	10/24/2023 15:53	0.3	NTU
GC-AP-MW-15	COND	Conductivity	10/24/2023 15:58	540.39	uS/cm
GC-AP-MW-15	DO	DO	10/24/2023 15:58	0.49	mg/L
GC-AP-MW-15	DTW	Depth to Water Detail	10/24/2023 15:58	18.01	ft
GC-AP-MW-15	ORP	Oxidation Reduction Potential	10/24/2023 15:58	54.1	mv
GC-AP-MW-15	PH	pH	10/24/2023 15:58	6.28	SU
GC-AP-MW-15	TEMP	Temperature	10/24/2023 15:58	19.69	C
GC-AP-MW-15	TURB	Turbidity	10/24/2023 15:58	0.22	NTU

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-15	COND	Conductivity	10/24/2023 16:03	541.3	uS/cm
GC-AP-MW-15	DO	DO	10/24/2023 16:03	0.48	mg/L
GC-AP-MW-15	DTW	Depth to Water Detail	10/24/2023 16:03	18.01	ft
GC-AP-MW-15	ORP	Oxidation Reduction Potential	10/24/2023 16:03	54.01	mv
GC-AP-MW-15	PH	pH	10/24/2023 16:03	6.29	SU
GC-AP-MW-15	SULFIDE	Sulfide	10/24/2023 16:03	0	mg/L
GC-AP-MW-15	TEMP	Temperature	10/24/2023 16:03	19.46	C
GC-AP-MW-15	TURB	Turbidity	10/24/2023 16:03	0.1	NTU
GC-AP-MW-16	COND	Conductivity	10/25/2023 10:28	761.9	uS/cm
GC-AP-MW-16	DO	DO	10/25/2023 10:28	0.1	mg/L
GC-AP-MW-16	DTW	Depth to Water Detail	10/25/2023 10:28	34.9	ft
GC-AP-MW-16	ORP	Oxidation Reduction Potential	10/25/2023 10:28	-29.49	mv
GC-AP-MW-16	PH	pH	10/25/2023 10:28	6.5	SU
GC-AP-MW-16	TEMP	Temperature	10/25/2023 10:28	20.07	C
GC-AP-MW-16	TURB	Turbidity	10/25/2023 10:28	5.9	NTU
GC-AP-MW-16	COND	Conductivity	10/25/2023 10:33	763.51	uS/cm
GC-AP-MW-16	DO	DO	10/25/2023 10:33	0.07	mg/L
GC-AP-MW-16	DTW	Depth to Water Detail	10/25/2023 10:33	34.9	ft
GC-AP-MW-16	ORP	Oxidation Reduction Potential	10/25/2023 10:33	-32.94	mv
GC-AP-MW-16	PH	pH	10/25/2023 10:33	6.52	SU
GC-AP-MW-16	TEMP	Temperature	10/25/2023 10:33	20.05	C
GC-AP-MW-16	TURB	Turbidity	10/25/2023 10:33	4.29	NTU
GC-AP-MW-16	COND	Conductivity	10/25/2023 10:38	765.34	uS/cm
GC-AP-MW-16	DO	DO	10/25/2023 10:38	0.07	mg/L
GC-AP-MW-16	DTW	Depth to Water Detail	10/25/2023 10:38	34.9	ft
GC-AP-MW-16	ORP	Oxidation Reduction Potential	10/25/2023 10:38	-35.04	mv
GC-AP-MW-16	PH	pH	10/25/2023 10:38	6.52	SU
GC-AP-MW-16	TEMP	Temperature	10/25/2023 10:38	20.04	C
GC-AP-MW-16	TURB	Turbidity	10/25/2023 10:38	3.69	NTU
GC-AP-MW-16	COND	Conductivity	10/25/2023 10:43	765.36	uS/cm
GC-AP-MW-16	DO	DO	10/25/2023 10:43	0.06	mg/L
GC-AP-MW-16	DTW	Depth to Water Detail	10/25/2023 10:43	34.9	ft
GC-AP-MW-16	ORP	Oxidation Reduction Potential	10/25/2023 10:43	-36.27	mv
GC-AP-MW-16	PH	pH	10/25/2023 10:43	6.53	SU
GC-AP-MW-16	SULFIDE	Sulfide	10/25/2023 10:43	0	mg/L
GC-AP-MW-16	TEMP	Temperature	10/25/2023 10:43	20.04	C
GC-AP-MW-16	TURB	Turbidity	10/25/2023 10:43	3.56	NTU
GC-AP-MW-17	COND	Conductivity	10/23/2023 15:27	970.23	uS/cm
GC-AP-MW-17	DO	DO	10/23/2023 15:27	0.12	mg/L
GC-AP-MW-17	DTW	Depth to Water Detail	10/23/2023 15:27	32.06	ft
GC-AP-MW-17	ORP	Oxidation Reduction Potential	10/23/2023 15:27	-86.26	mv
GC-AP-MW-17	PH	pH	10/23/2023 15:27	6.56	SU
GC-AP-MW-17	TEMP	Temperature	10/23/2023 15:27	20.81	C
GC-AP-MW-17	TURB	Turbidity	10/23/2023 15:27	6.88	NTU
GC-AP-MW-17	COND	Conductivity	10/23/2023 15:32	981.07	uS/cm
GC-AP-MW-17	DO	DO	10/23/2023 15:32	0.07	mg/L
GC-AP-MW-17	DTW	Depth to Water Detail	10/23/2023 15:32	32.06	ft
GC-AP-MW-17	ORP	Oxidation Reduction Potential	10/23/2023 15:32	-90.55	mv
GC-AP-MW-17	PH	pH	10/23/2023 15:32	6.58	SU
GC-AP-MW-17	TEMP	Temperature	10/23/2023 15:32	20.69	C
GC-AP-MW-17	TURB	Turbidity	10/23/2023 15:32	4.28	NTU
GC-AP-MW-17	COND	Conductivity	10/23/2023 15:37	983.77	uS/cm
GC-AP-MW-17	DO	DO	10/23/2023 15:37	0.06	mg/L
GC-AP-MW-17	DTW	Depth to Water Detail	10/23/2023 15:37	32.06	ft
GC-AP-MW-17	ORP	Oxidation Reduction Potential	10/23/2023 15:37	-94.08	mv
GC-AP-MW-17	PH	pH	10/23/2023 15:37	6.6	SU
GC-AP-MW-17	TEMP	Temperature	10/23/2023 15:37	20.62	C
GC-AP-MW-17	TURB	Turbidity	10/23/2023 15:37	2.73	NTU
GC-AP-MW-17	COND	Conductivity	10/23/2023 15:42	986.93	uS/cm
GC-AP-MW-17	DO	DO	10/23/2023 15:42	0.05	mg/L

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-17	DTW	Depth to Water Detail	10/23/2023 15:42	32.06	ft
GC-AP-MW-17	ORP	Oxidation Reduction Potential	10/23/2023 15:42	-97.32	mv
GC-AP-MW-17	PH	pH	10/23/2023 15:42	6.63	SU
GC-AP-MW-17	SULFIDE	Sulfide	10/23/2023 15:42	0	mg/L
GC-AP-MW-17	TEMP	Temperature	10/23/2023 15:42	20.55	C
GC-AP-MW-17	TURB	Turbidity	10/23/2023 15:42	2.23	NTU
GC-AP-MW-18	COND	Conductivity	10/23/2023 12:54	606.76	uS/cm
GC-AP-MW-18	DO	DO	10/23/2023 12:54	0.15	mg/L
GC-AP-MW-18	DTW	Depth to Water Detail	10/23/2023 12:54	30.79	ft
GC-AP-MW-18	ORP	Oxidation Reduction Potential	10/23/2023 12:54	-56.07	mv
GC-AP-MW-18	PH	pH	10/23/2023 12:54	6.39	SU
GC-AP-MW-18	TEMP	Temperature	10/23/2023 12:54	20.96	C
GC-AP-MW-18	TURB	Turbidity	10/23/2023 12:54	7.35	NTU
GC-AP-MW-18	COND	Conductivity	10/23/2023 12:59	610.99	uS/cm
GC-AP-MW-18	DO	DO	10/23/2023 12:59	0.13	mg/L
GC-AP-MW-18	DTW	Depth to Water Detail	10/23/2023 12:59	30.79	ft
GC-AP-MW-18	ORP	Oxidation Reduction Potential	10/23/2023 12:59	-54.99	mv
GC-AP-MW-18	PH	pH	10/23/2023 12:59	6.39	SU
GC-AP-MW-18	TEMP	Temperature	10/23/2023 12:59	20.87	C
GC-AP-MW-18	TURB	Turbidity	10/23/2023 12:59	4.09	NTU
GC-AP-MW-18	COND	Conductivity	10/23/2023 13:04	615.32	uS/cm
GC-AP-MW-18	DO	DO	10/23/2023 13:04	0.11	mg/L
GC-AP-MW-18	DTW	Depth to Water Detail	10/23/2023 13:04	30.79	ft
GC-AP-MW-18	ORP	Oxidation Reduction Potential	10/23/2023 13:04	-53.89	mv
GC-AP-MW-18	PH	pH	10/23/2023 13:04	6.39	SU
GC-AP-MW-18	TEMP	Temperature	10/23/2023 13:04	20.86	C
GC-AP-MW-18	TURB	Turbidity	10/23/2023 13:04	1.71	NTU
GC-AP-MW-18	COND	Conductivity	10/23/2023 13:09	617.57	uS/cm
GC-AP-MW-18	DO	DO	10/23/2023 13:09	0.1	mg/L
GC-AP-MW-18	DTW	Depth to Water Detail	10/23/2023 13:09	30.79	ft
GC-AP-MW-18	ORP	Oxidation Reduction Potential	10/23/2023 13:09	-53.05	mv
GC-AP-MW-18	PH	pH	10/23/2023 13:09	6.4	SU
GC-AP-MW-18	SULFIDE	Sulfide	10/23/2023 13:09	0	mg/L
GC-AP-MW-18	TEMP	Temperature	10/23/2023 13:09	20.85	C
GC-AP-MW-18	TURB	Turbidity	10/23/2023 13:09	1.29	NTU
GC-AP-MW-23	COND	Conductivity	10/25/2023 13:30	145	uS/cm
GC-AP-MW-23	DO	DO	10/25/2023 13:30	4.95	mg/L
GC-AP-MW-23	DTW	Depth to Water Detail	10/25/2023 13:30	15.86	ft
GC-AP-MW-23	ORP	Oxidation Reduction Potential	10/25/2023 13:30	162.49	mv
GC-AP-MW-23	PH	pH	10/25/2023 13:30	5.87	SU
GC-AP-MW-23	TEMP	Temperature	10/25/2023 13:30	23.53	C
GC-AP-MW-23	TURB	Turbidity	10/25/2023 13:30	5.13	NTU
GC-AP-MW-23	COND	Conductivity	10/25/2023 13:35	144.03	uS/cm
GC-AP-MW-23	DO	DO	10/25/2023 13:35	5.16	mg/L
GC-AP-MW-23	DTW	Depth to Water Detail	10/25/2023 13:35	15.86	ft
GC-AP-MW-23	ORP	Oxidation Reduction Potential	10/25/2023 13:35	157.13	mv
GC-AP-MW-23	PH	pH	10/25/2023 13:35	5.95	SU
GC-AP-MW-23	TEMP	Temperature	10/25/2023 13:35	23.48	C
GC-AP-MW-23	TURB	Turbidity	10/25/2023 13:35	2.91	NTU
GC-AP-MW-23	COND	Conductivity	10/25/2023 13:40	140.65	uS/cm
GC-AP-MW-23	DO	DO	10/25/2023 13:40	5.23	mg/L
GC-AP-MW-23	DTW	Depth to Water Detail	10/25/2023 13:40	15.86	ft
GC-AP-MW-23	ORP	Oxidation Reduction Potential	10/25/2023 13:40	150.12	mv
GC-AP-MW-23	PH	pH	10/25/2023 13:40	6.07	SU
GC-AP-MW-23	TEMP	Temperature	10/25/2023 13:40	23.43	C
GC-AP-MW-23	TURB	Turbidity	10/25/2023 13:40	2.94	NTU
GC-AP-MW-23	COND	Conductivity	10/25/2023 13:45	138.3	uS/cm
GC-AP-MW-23	DO	DO	10/25/2023 13:45	5.32	mg/L
GC-AP-MW-23	DTW	Depth to Water Detail	10/25/2023 13:45	15.86	ft
GC-AP-MW-23	ORP	Oxidation Reduction Potential	10/25/2023 13:45	145.91	mv

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-23	PH	pH	10/25/2023 13:45	6.16	SU
GC-AP-MW-23	TEMP	Temperature	10/25/2023 13:45	23.41	C
GC-AP-MW-23	TURB	Turbidity	10/25/2023 13:45	1.01	NTU
GC-AP-MW-23	COND	Conductivity	10/25/2023 13:50	136.11	uS/cm
GC-AP-MW-23	DO	DO	10/25/2023 13:50	5.33	mg/L
GC-AP-MW-23	DTW	Depth to Water Detail	10/25/2023 13:50	15.86	ft
GC-AP-MW-23	ORP	Oxidation Reduction Potential	10/25/2023 13:50	145.75	mv
GC-AP-MW-23	PH	pH	10/25/2023 13:50	6.17	SU
GC-AP-MW-23	SULFIDE	Sulfide	10/25/2023 13:50	0	mg/L
GC-AP-MW-23	TEMP	Temperature	10/25/2023 13:50	23.27	C
GC-AP-MW-23	TURB	Turbidity	10/25/2023 13:50	1.13	NTU
GC-AP-MW-24	COND	Conductivity	10/25/2023 12:42	182.42	uS/cm
GC-AP-MW-24	DO	DO	10/25/2023 12:42	4.17	mg/L
GC-AP-MW-24	DTW	Depth to Water Detail	10/25/2023 12:42	19.21	ft
GC-AP-MW-24	ORP	Oxidation Reduction Potential	10/25/2023 12:42	184.52	mv
GC-AP-MW-24	PH	pH	10/25/2023 12:42	5.24	SU
GC-AP-MW-24	TEMP	Temperature	10/25/2023 12:42	22.78	C
GC-AP-MW-24	TURB	Turbidity	10/25/2023 12:42	0.37	NTU
GC-AP-MW-24	COND	Conductivity	10/25/2023 12:47	199.98	uS/cm
GC-AP-MW-24	DO	DO	10/25/2023 12:47	4.06	mg/L
GC-AP-MW-24	DTW	Depth to Water Detail	10/25/2023 12:47	19.21	ft
GC-AP-MW-24	ORP	Oxidation Reduction Potential	10/25/2023 12:47	194.75	mv
GC-AP-MW-24	PH	pH	10/25/2023 12:47	5.26	SU
GC-AP-MW-24	TEMP	Temperature	10/25/2023 12:47	22.87	C
GC-AP-MW-24	TURB	Turbidity	10/25/2023 12:47	0.46	NTU
GC-AP-MW-24	COND	Conductivity	10/25/2023 12:52	204.52	uS/cm
GC-AP-MW-24	DO	DO	10/25/2023 12:52	3.99	mg/L
GC-AP-MW-24	DTW	Depth to Water Detail	10/25/2023 12:52	19.21	ft
GC-AP-MW-24	ORP	Oxidation Reduction Potential	10/25/2023 12:52	192.16	mv
GC-AP-MW-24	PH	pH	10/25/2023 12:52	5.31	SU
GC-AP-MW-24	TEMP	Temperature	10/25/2023 12:52	22.89	C
GC-AP-MW-24	TURB	Turbidity	10/25/2023 12:52	0.47	NTU
GC-AP-MW-24	COND	Conductivity	10/25/2023 12:57	206	uS/cm
GC-AP-MW-24	DO	DO	10/25/2023 12:57	3.96	mg/L
GC-AP-MW-24	DTW	Depth to Water Detail	10/25/2023 12:57	19.21	ft
GC-AP-MW-24	ORP	Oxidation Reduction Potential	10/25/2023 12:57	173.43	mv
GC-AP-MW-24	PH	pH	10/25/2023 12:57	5.33	SU
GC-AP-MW-24	SULFIDE	Sulfide	10/25/2023 12:57	0	mg/L
GC-AP-MW-24	TEMP	Temperature	10/25/2023 12:57	22.84	C
GC-AP-MW-24	TURB	Turbidity	10/25/2023 12:57	0.13	NTU
GC-AP-MW-12	COND	Conductivity	10/25/2023 13:01	316.51	uS/cm
GC-AP-MW-12	DO	DO	10/25/2023 13:01	1.24	mg/L
GC-AP-MW-12	DTW	Depth to Water Detail	10/25/2023 13:01	24.6	ft
GC-AP-MW-12	ORP	Oxidation Reduction Potential	10/25/2023 13:01	82.61	mv
GC-AP-MW-12	PH	pH	10/25/2023 13:01	6.59	SU
GC-AP-MW-12	TEMP	Temperature	10/25/2023 13:01	22.44	C
GC-AP-MW-12	TURB	Turbidity	10/25/2023 13:01	2.21	NTU
GC-AP-MW-12	COND	Conductivity	10/25/2023 13:06	312.13	uS/cm
GC-AP-MW-12	DO	DO	10/25/2023 13:06	1.21	mg/L
GC-AP-MW-12	DTW	Depth to Water Detail	10/25/2023 13:06	24.6	ft
GC-AP-MW-12	ORP	Oxidation Reduction Potential	10/25/2023 13:06	85.76	mv
GC-AP-MW-12	PH	pH	10/25/2023 13:06	6.64	SU
GC-AP-MW-12	TEMP	Temperature	10/25/2023 13:06	22.55	C
GC-AP-MW-12	TURB	Turbidity	10/25/2023 13:06	1.46	NTU
GC-AP-MW-12	COND	Conductivity	10/25/2023 13:11	305.43	uS/cm
GC-AP-MW-12	DO	DO	10/25/2023 13:11	1.34	mg/L
GC-AP-MW-12	DTW	Depth to Water Detail	10/25/2023 13:11	24.6	ft
GC-AP-MW-12	ORP	Oxidation Reduction Potential	10/25/2023 13:11	82.17	mv
GC-AP-MW-12	PH	pH	10/25/2023 13:11	6.73	SU
GC-AP-MW-12	TEMP	Temperature	10/25/2023 13:11	22.54	C

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-12	TURB	Turbidity	10/25/2023 13:11	1.25	NTU
GC-AP-MW-12	COND	Conductivity	10/25/2023 13:16	307.42	uS/cm
GC-AP-MW-12	DO	DO	10/25/2023 13:16	1.3	mg/L
GC-AP-MW-12	DTW	Depth to Water Detail	10/25/2023 13:16	24.6	ft
GC-AP-MW-12	ORP	Oxidation Reduction Potential	10/25/2023 13:16	83.57	mv
GC-AP-MW-12	PH	pH	10/25/2023 13:16	6.77	SU
GC-AP-MW-12	SULFIDE	Sulfide	10/25/2023 13:16	0	mg/L
GC-AP-MW-12	TEMP	Temperature	10/25/2023 13:16	22.55	C
GC-AP-MW-12	TURB	Turbidity	10/25/2023 13:16	1.12	NTU
GC-AP-MW-13	COND	Conductivity	10/25/2023 15:47	324.62	uS/cm
GC-AP-MW-13	DO	DO	10/25/2023 15:47	2.05	mg/L
GC-AP-MW-13	DTW	Depth to Water Detail	10/25/2023 15:47	26.02	ft
GC-AP-MW-13	ORP	Oxidation Reduction Potential	10/25/2023 15:47	-13.87	mv
GC-AP-MW-13	PH	pH	10/25/2023 15:47	6.31	SU
GC-AP-MW-13	TEMP	Temperature	10/25/2023 15:47	28.21	C
GC-AP-MW-13	TURB	Turbidity	10/25/2023 15:47	88.9	NTU
GC-AP-MW-13	COND	Conductivity	10/25/2023 15:52	322.29	uS/cm
GC-AP-MW-13	DO	DO	10/25/2023 15:52	2.08	mg/L
GC-AP-MW-13	DTW	Depth to Water Detail	10/25/2023 15:52	26.02	ft
GC-AP-MW-13	ORP	Oxidation Reduction Potential	10/25/2023 15:52	-12.03	mv
GC-AP-MW-13	PH	pH	10/25/2023 15:52	6.39	SU
GC-AP-MW-13	TEMP	Temperature	10/25/2023 15:52	28.14	C
GC-AP-MW-13	TURB	Turbidity	10/25/2023 15:52	14.6	NTU
GC-AP-MW-13	COND	Conductivity	10/25/2023 15:57	320.32	uS/cm
GC-AP-MW-13	DO	DO	10/25/2023 15:57	2.03	mg/L
GC-AP-MW-13	DTW	Depth to Water Detail	10/25/2023 15:57	26.02	ft
GC-AP-MW-13	ORP	Oxidation Reduction Potential	10/25/2023 15:57	-13.41	mv
GC-AP-MW-13	PH	pH	10/25/2023 15:57	6.45	SU
GC-AP-MW-13	TEMP	Temperature	10/25/2023 15:57	28.12	C
GC-AP-MW-13	TURB	Turbidity	10/25/2023 15:57	6.6	NTU
GC-AP-MW-13	COND	Conductivity	10/25/2023 16:02	319.81	uS/cm
GC-AP-MW-13	DO	DO	10/25/2023 16:02	2	mg/L
GC-AP-MW-13	DTW	Depth to Water Detail	10/25/2023 16:02	26.02	ft
GC-AP-MW-13	ORP	Oxidation Reduction Potential	10/25/2023 16:02	-12.29	mv
GC-AP-MW-13	PH	pH	10/25/2023 16:02	6.47	SU
GC-AP-MW-13	SULFIDE	Sulfide	10/25/2023 16:02	0	mg/L
GC-AP-MW-13	TEMP	Temperature	10/25/2023 16:02	28.15	C
GC-AP-MW-13	TURB	Turbidity	10/25/2023 16:02	4.14	NTU
GC-AP-MW-21	COND	Conductivity	10/25/2023 14:02	392.32	uS/cm
GC-AP-MW-21	DO	DO	10/25/2023 14:02	0.42	mg/L
GC-AP-MW-21	DTW	Depth to Water Detail	10/25/2023 14:02	26.38	ft
GC-AP-MW-21	ORP	Oxidation Reduction Potential	10/25/2023 14:02	106.56	mv
GC-AP-MW-21	PH	pH	10/25/2023 14:02	6.06	SU
GC-AP-MW-21	TEMP	Temperature	10/25/2023 14:02	22.34	C
GC-AP-MW-21	TURB	Turbidity	10/25/2023 14:02	1.16	NTU
GC-AP-MW-21	COND	Conductivity	10/25/2023 14:07	351.9	uS/cm
GC-AP-MW-21	DO	DO	10/25/2023 14:07	0.64	mg/L
GC-AP-MW-21	DTW	Depth to Water Detail	10/25/2023 14:07	26.38	ft
GC-AP-MW-21	ORP	Oxidation Reduction Potential	10/25/2023 14:07	101.71	mv
GC-AP-MW-21	PH	pH	10/25/2023 14:07	6	SU
GC-AP-MW-21	TEMP	Temperature	10/25/2023 14:07	22.47	C
GC-AP-MW-21	TURB	Turbidity	10/25/2023 14:07	1.11	NTU
GC-AP-MW-21	COND	Conductivity	10/25/2023 14:12	334.57	uS/cm
GC-AP-MW-21	DO	DO	10/25/2023 14:12	0.89	mg/L
GC-AP-MW-21	DTW	Depth to Water Detail	10/25/2023 14:12	26.38	ft
GC-AP-MW-21	ORP	Oxidation Reduction Potential	10/25/2023 14:12	105.59	mv
GC-AP-MW-21	PH	pH	10/25/2023 14:12	5.99	SU
GC-AP-MW-21	TEMP	Temperature	10/25/2023 14:12	22.43	C
GC-AP-MW-21	TURB	Turbidity	10/25/2023 14:12	0.92	NTU
GC-AP-MW-21	COND	Conductivity	10/25/2023 14:17	326.68	uS/cm

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-21	DO	DO	10/25/2023 14:17	1.21	mg/L
GC-AP-MW-21	DTW	Depth to Water Detail	10/25/2023 14:17	26.38	ft
GC-AP-MW-21	ORP	Oxidation Reduction Potential	10/25/2023 14:17	112.5	mv
GC-AP-MW-21	PH	pH	10/25/2023 14:17	6	SU
GC-AP-MW-21	TEMP	Temperature	10/25/2023 14:17	22.38	C
GC-AP-MW-21	TURB	Turbidity	10/25/2023 14:17	0.94	NTU
GC-AP-MW-21	COND	Conductivity	10/25/2023 14:22	327.2	uS/cm
GC-AP-MW-21	DO	DO	10/25/2023 14:22	1.31	mg/L
GC-AP-MW-21	DTW	Depth to Water Detail	10/25/2023 14:22	26.38	ft
GC-AP-MW-21	ORP	Oxidation Reduction Potential	10/25/2023 14:22	113.86	mv
GC-AP-MW-21	PH	pH	10/25/2023 14:22	6	SU
GC-AP-MW-21	TEMP	Temperature	10/25/2023 14:22	22.24	C
GC-AP-MW-21	TURB	Turbidity	10/25/2023 14:22	0.86	NTU
GC-AP-MW-21	COND	Conductivity	10/25/2023 14:27	323.53	uS/cm
GC-AP-MW-21	DO	DO	10/25/2023 14:27	1.33	mg/L
GC-AP-MW-21	DTW	Depth to Water Detail	10/25/2023 14:27	26.38	ft
GC-AP-MW-21	ORP	Oxidation Reduction Potential	10/25/2023 14:27	111.97	mv
GC-AP-MW-21	PH	pH	10/25/2023 14:27	6.01	SU
GC-AP-MW-21	SULFIDE	Sulfide	10/25/2023 14:27	0	mg/L
GC-AP-MW-21	TEMP	Temperature	10/25/2023 14:27	22.1	C
GC-AP-MW-21	TURB	Turbidity	10/25/2023 14:27	0.9	NTU
GC-AP-MW-35H	COND	Conductivity	10/24/2023 15:42	158.65	uS/cm
GC-AP-MW-35H	DO	DO	10/24/2023 15:42	6.54	mg/L
GC-AP-MW-35H	DTW	Depth to Water Detail	10/24/2023 15:42	22.52	ft
GC-AP-MW-35H	ORP	Oxidation Reduction Potential	10/24/2023 15:42	173.62	mv
GC-AP-MW-35H	PH	pH	10/24/2023 15:42	5.79	SU
GC-AP-MW-35H	TEMP	Temperature	10/24/2023 15:42	22.55	C
GC-AP-MW-35H	TURB	Turbidity	10/24/2023 15:42	2.33	NTU
GC-AP-MW-35H	COND	Conductivity	10/24/2023 15:47	157.92	uS/cm
GC-AP-MW-35H	DO	DO	10/24/2023 15:47	5.28	mg/L
GC-AP-MW-35H	DTW	Depth to Water Detail	10/24/2023 15:47	22.52	ft
GC-AP-MW-35H	ORP	Oxidation Reduction Potential	10/24/2023 15:47	182.34	mv
GC-AP-MW-35H	PH	pH	10/24/2023 15:47	5.73	SU
GC-AP-MW-35H	TEMP	Temperature	10/24/2023 15:47	22.54	C
GC-AP-MW-35H	TURB	Turbidity	10/24/2023 15:47	2.45	NTU
GC-AP-MW-35H	COND	Conductivity	10/24/2023 15:52	157.59	uS/cm
GC-AP-MW-35H	DO	DO	10/24/2023 15:52	3.68	mg/L
GC-AP-MW-35H	DTW	Depth to Water Detail	10/24/2023 15:52	22.52	ft
GC-AP-MW-35H	ORP	Oxidation Reduction Potential	10/24/2023 15:52	186.5	mv
GC-AP-MW-35H	PH	pH	10/24/2023 15:52	5.7	SU
GC-AP-MW-35H	TEMP	Temperature	10/24/2023 15:52	22.54	C
GC-AP-MW-35H	TURB	Turbidity	10/24/2023 15:52	2.12	NTU
GC-AP-MW-35H	COND	Conductivity	10/24/2023 15:57	166.84	uS/cm
GC-AP-MW-35H	DO	DO	10/24/2023 15:57	6.36	mg/L
GC-AP-MW-35H	DTW	Depth to Water Detail	10/24/2023 15:57	22.52	ft
GC-AP-MW-35H	ORP	Oxidation Reduction Potential	10/24/2023 15:57	187.56	mv
GC-AP-MW-35H	PH	pH	10/24/2023 15:57	5.71	SU
GC-AP-MW-35H	TEMP	Temperature	10/24/2023 15:57	22.55	C
GC-AP-MW-35H	TURB	Turbidity	10/24/2023 15:57	1.92	NTU
GC-AP-MW-35H	COND	Conductivity	10/24/2023 16:02	167.03	uS/cm
GC-AP-MW-35H	DO	DO	10/24/2023 16:02	6.39	mg/L
GC-AP-MW-35H	DTW	Depth to Water Detail	10/24/2023 16:02	22.52	ft
GC-AP-MW-35H	ORP	Oxidation Reduction Potential	10/24/2023 16:02	186.84	mv
GC-AP-MW-35H	PH	pH	10/24/2023 16:02	5.73	SU
GC-AP-MW-35H	TEMP	Temperature	10/24/2023 16:02	22.56	C
GC-AP-MW-35H	TURB	Turbidity	10/24/2023 16:02	1.95	NTU
GC-AP-MW-35H	COND	Conductivity	10/24/2023 16:07	165.42	uS/cm
GC-AP-MW-35H	DO	DO	10/24/2023 16:07	6.41	mg/L
GC-AP-MW-35H	DTW	Depth to Water Detail	10/24/2023 16:07	22.52	ft
GC-AP-MW-35H	ORP	Oxidation Reduction Potential	10/24/2023 16:07	184.41	mv

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-35H	PH	pH	10/24/2023 16:07	5.74	SU
GC-AP-MW-35H	SULFIDE	Sulfide	10/24/2023 16:07	0	mg/L
GC-AP-MW-35H	TEMP	Temperature	10/24/2023 16:07	22.54	C
GC-AP-MW-35H	TURB	Turbidity	10/24/2023 16:07	1.86	NTU
GC-AP-MW-42H	COND	Conductivity	10/25/2023 9:32	620.29	uS/cm
GC-AP-MW-42H	DO	DO	10/25/2023 9:32	0.08	mg/L
GC-AP-MW-42H	DTW	Depth to Water Detail	10/25/2023 9:32	10	ft
GC-AP-MW-42H	ORP	Oxidation Reduction Potential	10/25/2023 9:32	-12.4	mv
GC-AP-MW-42H	PH	pH	10/25/2023 9:32	6.41	SU
GC-AP-MW-42H	TEMP	Temperature	10/25/2023 9:32	20.17	C
GC-AP-MW-42H	TURB	Turbidity	10/25/2023 9:32	15.1	NTU
GC-AP-MW-42H	COND	Conductivity	10/25/2023 9:37	617.99	uS/cm
GC-AP-MW-42H	DO	DO	10/25/2023 9:37	0.07	mg/L
GC-AP-MW-42H	DTW	Depth to Water Detail	10/25/2023 9:37	10	ft
GC-AP-MW-42H	ORP	Oxidation Reduction Potential	10/25/2023 9:37	-20.57	mv
GC-AP-MW-42H	PH	pH	10/25/2023 9:37	6.4	SU
GC-AP-MW-42H	TEMP	Temperature	10/25/2023 9:37	20.18	C
GC-AP-MW-42H	TURB	Turbidity	10/25/2023 9:37	13.2	NTU
GC-AP-MW-42H	COND	Conductivity	10/25/2023 9:42	613.96	uS/cm
GC-AP-MW-42H	DO	DO	10/25/2023 9:42	0.06	mg/L
GC-AP-MW-42H	DTW	Depth to Water Detail	10/25/2023 9:42	10	ft
GC-AP-MW-42H	ORP	Oxidation Reduction Potential	10/25/2023 9:42	-24.01	mv
GC-AP-MW-42H	PH	pH	10/25/2023 9:42	6.39	SU
GC-AP-MW-42H	TEMP	Temperature	10/25/2023 9:42	20.16	C
GC-AP-MW-42H	TURB	Turbidity	10/25/2023 9:42	12.4	NTU
GC-AP-MW-42H	COND	Conductivity	10/25/2023 9:47	610.98	uS/cm
GC-AP-MW-42H	DO	DO	10/25/2023 9:47	0.06	mg/L
GC-AP-MW-42H	DTW	Depth to Water Detail	10/25/2023 9:47	10	ft
GC-AP-MW-42H	ORP	Oxidation Reduction Potential	10/25/2023 9:47	-25.22	mv
GC-AP-MW-42H	PH	pH	10/25/2023 9:47	6.37	SU
GC-AP-MW-42H	TEMP	Temperature	10/25/2023 9:47	20.2	C
GC-AP-MW-42H	TURB	Turbidity	10/25/2023 9:47	9.12	NTU
GC-AP-MW-42H	COND	Conductivity	10/25/2023 9:52	607.77	uS/cm
GC-AP-MW-42H	DO	DO	10/25/2023 9:52	0.06	mg/L
GC-AP-MW-42H	DTW	Depth to Water Detail	10/25/2023 9:52	10	ft
GC-AP-MW-42H	ORP	Oxidation Reduction Potential	10/25/2023 9:52	-25.91	mv
GC-AP-MW-42H	PH	pH	10/25/2023 9:52	6.35	SU
GC-AP-MW-42H	SULFIDE	Sulfide	10/25/2023 9:52	0	mg/L
GC-AP-MW-42H	TEMP	Temperature	10/25/2023 9:52	20.23	C
GC-AP-MW-42H	TURB	Turbidity	10/25/2023 9:52	5.65	NTU
GC-AP-MW-43H	COND	Conductivity	10/25/2023 8:42	808.84	uS/cm
GC-AP-MW-43H	DO	DO	10/25/2023 8:42	0.11	mg/L
GC-AP-MW-43H	DTW	Depth to Water Detail	10/25/2023 8:42	11.72	ft
GC-AP-MW-43H	ORP	Oxidation Reduction Potential	10/25/2023 8:42	-66.35	mv
GC-AP-MW-43H	PH	pH	10/25/2023 8:42	6.4	SU
GC-AP-MW-43H	TEMP	Temperature	10/25/2023 8:42	19.65	C
GC-AP-MW-43H	TURB	Turbidity	10/25/2023 8:42	5.15	NTU
GC-AP-MW-43H	COND	Conductivity	10/25/2023 8:47	802.14	uS/cm
GC-AP-MW-43H	DO	DO	10/25/2023 8:47	0.09	mg/L
GC-AP-MW-43H	DTW	Depth to Water Detail	10/25/2023 8:47	11.72	ft
GC-AP-MW-43H	ORP	Oxidation Reduction Potential	10/25/2023 8:47	-64.1	mv
GC-AP-MW-43H	PH	pH	10/25/2023 8:47	6.4	SU
GC-AP-MW-43H	TEMP	Temperature	10/25/2023 8:47	19.65	C
GC-AP-MW-43H	TURB	Turbidity	10/25/2023 8:47	4.97	NTU
GC-AP-MW-43H	COND	Conductivity	10/25/2023 8:52	797.23	uS/cm
GC-AP-MW-43H	DO	DO	10/25/2023 8:52	0.09	mg/L
GC-AP-MW-43H	DTW	Depth to Water Detail	10/25/2023 8:52	11.72	ft
GC-AP-MW-43H	ORP	Oxidation Reduction Potential	10/25/2023 8:52	-63.08	mv
GC-AP-MW-43H	PH	pH	10/25/2023 8:52	6.41	SU
GC-AP-MW-43H	TEMP	Temperature	10/25/2023 8:52	19.64	C



**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-43H	TURB	Turbidity	10/25/2023 8:52	3.16	NTU
GC-AP-MW-43H	COND	Conductivity	10/25/2023 8:57	792.65	uS/cm
GC-AP-MW-43H	DO	DO	10/25/2023 8:57	0.08	mg/L
GC-AP-MW-43H	DTW	Depth to Water Detail	10/25/2023 8:57	11.72	ft
GC-AP-MW-43H	ORP	Oxidation Reduction Potential	10/25/2023 8:57	-63.06	mv
GC-AP-MW-43H	PH	pH	10/25/2023 8:57	6.41	SU
GC-AP-MW-43H	SULFIDE	Sulfide	10/25/2023 8:57	0	mg/L
GC-AP-MW-43H	TEMP	Temperature	10/25/2023 8:57	19.65	C
GC-AP-MW-43H	TURB	Turbidity	10/25/2023 8:57	3.14	NTU
GC-AP-MW-48H	COND	Conductivity	10/25/2023 11:10	79.48	uS/cm
GC-AP-MW-48H	DO	DO	10/25/2023 11:10	0.13	mg/L
GC-AP-MW-48H	DTW	Depth to Water Detail	10/25/2023 11:10	11	ft
GC-AP-MW-48H	ORP	Oxidation Reduction Potential	10/25/2023 11:10	199.82	mv
GC-AP-MW-48H	PH	pH	10/25/2023 11:10	5.4	SU
GC-AP-MW-48H	TEMP	Temperature	10/25/2023 11:10	20.78	C
GC-AP-MW-48H	TURB	Turbidity	10/25/2023 11:10	1.18	NTU
GC-AP-MW-48H	COND	Conductivity	10/25/2023 11:15	97.12	uS/cm
GC-AP-MW-48H	DO	DO	10/25/2023 11:15	0.09	mg/L
GC-AP-MW-48H	DTW	Depth to Water Detail	10/25/2023 11:15	11	ft
GC-AP-MW-48H	ORP	Oxidation Reduction Potential	10/25/2023 11:15	193.42	mv
GC-AP-MW-48H	PH	pH	10/25/2023 11:15	5.57	SU
GC-AP-MW-48H	TEMP	Temperature	10/25/2023 11:15	20.73	C
GC-AP-MW-48H	TURB	Turbidity	10/25/2023 11:15	1.1	NTU
GC-AP-MW-48H	COND	Conductivity	10/25/2023 11:20	99.17	uS/cm
GC-AP-MW-48H	DO	DO	10/25/2023 11:20	0.09	mg/L
GC-AP-MW-48H	DTW	Depth to Water Detail	10/25/2023 11:20	11	ft
GC-AP-MW-48H	ORP	Oxidation Reduction Potential	10/25/2023 11:20	190.45	mv
GC-AP-MW-48H	PH	pH	10/25/2023 11:20	5.64	SU
GC-AP-MW-48H	TEMP	Temperature	10/25/2023 11:20	20.71	C
GC-AP-MW-48H	TURB	Turbidity	10/25/2023 11:20	1.02	NTU
GC-AP-MW-48H	COND	Conductivity	10/25/2023 11:25	101.39	uS/cm
GC-AP-MW-48H	DO	DO	10/25/2023 11:25	0.07	mg/L
GC-AP-MW-48H	DTW	Depth to Water Detail	10/25/2023 11:25	11	ft
GC-AP-MW-48H	ORP	Oxidation Reduction Potential	10/25/2023 11:25	187.1	mv
GC-AP-MW-48H	PH	pH	10/25/2023 11:25	5.7	SU
GC-AP-MW-48H	TEMP	Temperature	10/25/2023 11:25	20.8	C
GC-AP-MW-48H	TURB	Turbidity	10/25/2023 11:25	0.92	NTU
GC-AP-MW-48H	COND	Conductivity	10/25/2023 11:30	100.91	uS/cm
GC-AP-MW-48H	DO	DO	10/25/2023 11:30	0.07	mg/L
GC-AP-MW-48H	DTW	Depth to Water Detail	10/25/2023 11:30	11	ft
GC-AP-MW-48H	ORP	Oxidation Reduction Potential	10/25/2023 11:30	182.98	mv
GC-AP-MW-48H	PH	pH	10/25/2023 11:30	5.76	SU
GC-AP-MW-48H	SULFIDE	Sulfide	10/25/2023 11:30	0	mg/L
GC-AP-MW-48H	TEMP	Temperature	10/25/2023 11:30	20.72	C
GC-AP-MW-48H	TURB	Turbidity	10/25/2023 11:30	0.9	NTU
GC-AP-MW-49H	COND	Conductivity	10/25/2023 10:25	360.89	uS/cm
GC-AP-MW-49H	DO	DO	10/25/2023 10:25	1.64	mg/L
GC-AP-MW-49H	DTW	Depth to Water Detail	10/25/2023 10:25	12.12	ft
GC-AP-MW-49H	ORP	Oxidation Reduction Potential	10/25/2023 10:25	145.39	mv
GC-AP-MW-49H	PH	pH	10/25/2023 10:25	5.63	SU
GC-AP-MW-49H	TEMP	Temperature	10/25/2023 10:25	22.1	C
GC-AP-MW-49H	TURB	Turbidity	10/25/2023 10:25	2.24	NTU
GC-AP-MW-49H	COND	Conductivity	10/25/2023 10:30	362.25	uS/cm
GC-AP-MW-49H	DO	DO	10/25/2023 10:30	1.68	mg/L
GC-AP-MW-49H	DTW	Depth to Water Detail	10/25/2023 10:30	12.12	ft
GC-AP-MW-49H	ORP	Oxidation Reduction Potential	10/25/2023 10:30	154.09	mv
GC-AP-MW-49H	PH	pH	10/25/2023 10:30	5.6	SU
GC-AP-MW-49H	TEMP	Temperature	10/25/2023 10:30	22.08	C
GC-AP-MW-49H	TURB	Turbidity	10/25/2023 10:30	2.17	NTU
GC-AP-MW-49H	COND	Conductivity	10/25/2023 10:35	362.74	uS/cm

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-49H	DO	DO	10/25/2023 10:35	1.66	mg/L
GC-AP-MW-49H	DTW	Depth to Water Detail	10/25/2023 10:35	12.12	ft
GC-AP-MW-49H	ORP	Oxidation Reduction Potential	10/25/2023 10:35	154.96	mv
GC-AP-MW-49H	PH	pH	10/25/2023 10:35	5.6	SU
GC-AP-MW-49H	TEMP	Temperature	10/25/2023 10:35	22.17	C
GC-AP-MW-49H	TURB	Turbidity	10/25/2023 10:35	2.04	NTU
GC-AP-MW-49H	COND	Conductivity	10/25/2023 10:40	358.6	uS/cm
GC-AP-MW-49H	DO	DO	10/25/2023 10:40	1.7	mg/L
GC-AP-MW-49H	DTW	Depth to Water Detail	10/25/2023 10:40	12.12	ft
GC-AP-MW-49H	ORP	Oxidation Reduction Potential	10/25/2023 10:40	155.47	mv
GC-AP-MW-49H	PH	pH	10/25/2023 10:40	5.6	SU
GC-AP-MW-49H	SULFIDE	Sulfide	10/25/2023 10:40	0	mg/L
GC-AP-MW-49H	TEMP	Temperature	10/25/2023 10:40	22.11	C
GC-AP-MW-49H	TURB	Turbidity	10/25/2023 10:40	2.08	NTU
GC-AP-MW-31	COND	Conductivity	10/30/2023 14:26	72.15	uS/cm
GC-AP-MW-31	DO	DO	10/30/2023 14:26	1.81	mg/L
GC-AP-MW-31	DTW	Depth to Water Detail	10/30/2023 14:26	11.04	ft
GC-AP-MW-31	ORP	Oxidation Reduction Potential	10/30/2023 14:26	172.46	mv
GC-AP-MW-31	PH	pH	10/30/2023 14:26	5.69	SU
GC-AP-MW-31	TEMP	Temperature	10/30/2023 14:26	19	C
GC-AP-MW-31	TURB	Turbidity	10/30/2023 14:26	4.36	NTU
GC-AP-MW-31	COND	Conductivity	10/30/2023 14:31	70.77	uS/cm
GC-AP-MW-31	DO	DO	10/30/2023 14:31	1.75	mg/L
GC-AP-MW-31	DTW	Depth to Water Detail	10/30/2023 14:31	11.04	ft
GC-AP-MW-31	ORP	Oxidation Reduction Potential	10/30/2023 14:31	191.35	mv
GC-AP-MW-31	PH	pH	10/30/2023 14:31	5.71	SU
GC-AP-MW-31	TEMP	Temperature	10/30/2023 14:31	19.01	C
GC-AP-MW-31	TURB	Turbidity	10/30/2023 14:31	2.89	NTU
GC-AP-MW-31	COND	Conductivity	10/30/2023 14:36	72.16	uS/cm
GC-AP-MW-31	DO	DO	10/30/2023 14:36	1.73	mg/L
GC-AP-MW-31	DTW	Depth to Water Detail	10/30/2023 14:36	11.04	ft
GC-AP-MW-31	ORP	Oxidation Reduction Potential	10/30/2023 14:36	203.38	mv
GC-AP-MW-31	PH	pH	10/30/2023 14:36	5.72	SU
GC-AP-MW-31	TEMP	Temperature	10/30/2023 14:36	19.02	C
GC-AP-MW-31	TURB	Turbidity	10/30/2023 14:36	2.51	NTU
GC-AP-MW-31	COND	Conductivity	10/30/2023 14:41	71.08	uS/cm
GC-AP-MW-31	DO	DO	10/30/2023 14:41	1.69	mg/L
GC-AP-MW-31	DTW	Depth to Water Detail	10/30/2023 14:41	11.04	ft
GC-AP-MW-31	ORP	Oxidation Reduction Potential	10/30/2023 14:41	209.73	mv
GC-AP-MW-31	PH	pH	10/30/2023 14:41	5.72	SU
GC-AP-MW-31	SULFIDE	Sulfide	10/30/2023 14:41	0	mg/L
GC-AP-MW-31	TEMP	Temperature	10/30/2023 14:41	19	C
GC-AP-MW-31	TURB	Turbidity	10/30/2023 14:41	2.62	NTU
GC-AP-MW-32	COND	Conductivity	10/30/2023 16:11	65.55	uS/cm
GC-AP-MW-32	DO	DO	10/30/2023 16:11	3.22	mg/L
GC-AP-MW-32	DTW	Depth to Water Detail	10/30/2023 16:11	18.28	ft
GC-AP-MW-32	ORP	Oxidation Reduction Potential	10/30/2023 16:11	268.07	mv
GC-AP-MW-32	PH	pH	10/30/2023 16:11	5.94	SU
GC-AP-MW-32	TEMP	Temperature	10/30/2023 16:11	20.19	C
GC-AP-MW-32	TURB	Turbidity	10/30/2023 16:11	1.78	NTU
GC-AP-MW-32	COND	Conductivity	10/30/2023 16:16	63.11	uS/cm
GC-AP-MW-32	DO	DO	10/30/2023 16:16	3.27	mg/L
GC-AP-MW-32	DTW	Depth to Water Detail	10/30/2023 16:16	18.28	ft
GC-AP-MW-32	ORP	Oxidation Reduction Potential	10/30/2023 16:16	262.09	mv
GC-AP-MW-32	PH	pH	10/30/2023 16:16	5.92	SU
GC-AP-MW-32	TEMP	Temperature	10/30/2023 16:16	20.17	C
GC-AP-MW-32	TURB	Turbidity	10/30/2023 16:16	1.55	NTU
GC-AP-MW-32	COND	Conductivity	10/30/2023 16:21	61.59	uS/cm
GC-AP-MW-32	DO	DO	10/30/2023 16:21	3.26	mg/L
GC-AP-MW-32	DTW	Depth to Water Detail	10/30/2023 16:21	18.28	ft

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-32	ORP	Oxidation Reduction Potential	10/30/2023 16:21	256.9	mv
GC-AP-MW-32	PH	pH	10/30/2023 16:21	5.95	SU
GC-AP-MW-32	TEMP	Temperature	10/30/2023 16:21	20.2	C
GC-AP-MW-32	TURB	Turbidity	10/30/2023 16:21	1.49	NTU
GC-AP-MW-32	COND	Conductivity	10/30/2023 16:26	60.39	uS/cm
GC-AP-MW-32	DO	DO	10/30/2023 16:26	3.26	mg/L
GC-AP-MW-32	DTW	Depth to Water Detail	10/30/2023 16:26	18.28	ft
GC-AP-MW-32	ORP	Oxidation Reduction Potential	10/30/2023 16:26	253.56	mv
GC-AP-MW-32	PH	pH	10/30/2023 16:26	5.92	SU
GC-AP-MW-32	SULFIDE	Sulfide	10/30/2023 16:26	0	mg/L
GC-AP-MW-32	TEMP	Temperature	10/30/2023 16:26	20.17	C
GC-AP-MW-32	TURB	Turbidity	10/30/2023 16:26	1.42	NTU
GC-AP-MW-33	COND	Conductivity	10/30/2023 15:20	80.77	uS/cm
GC-AP-MW-33	DO	DO	10/30/2023 15:20	3.61	mg/L
GC-AP-MW-33	DTW	Depth to Water Detail	10/30/2023 15:20	21.71	ft
GC-AP-MW-33	ORP	Oxidation Reduction Potential	10/30/2023 15:20	345.23	mv
GC-AP-MW-33	PH	pH	10/30/2023 15:20	4.59	SU
GC-AP-MW-33	TEMP	Temperature	10/30/2023 15:20	19.29	C
GC-AP-MW-33	TURB	Turbidity	10/30/2023 15:20	2.31	NTU
GC-AP-MW-33	COND	Conductivity	10/30/2023 15:25	78.52	uS/cm
GC-AP-MW-33	DO	DO	10/30/2023 15:25	3.6	mg/L
GC-AP-MW-33	DTW	Depth to Water Detail	10/30/2023 15:25	21.71	ft
GC-AP-MW-33	ORP	Oxidation Reduction Potential	10/30/2023 15:25	353.04	mv
GC-AP-MW-33	PH	pH	10/30/2023 15:25	4.65	SU
GC-AP-MW-33	TEMP	Temperature	10/30/2023 15:25	19.3	C
GC-AP-MW-33	TURB	Turbidity	10/30/2023 15:25	2.18	NTU
GC-AP-MW-33	COND	Conductivity	10/30/2023 15:30	79.36	uS/cm
GC-AP-MW-33	DO	DO	10/30/2023 15:30	3.48	mg/L
GC-AP-MW-33	DTW	Depth to Water Detail	10/30/2023 15:30	21.71	ft
GC-AP-MW-33	ORP	Oxidation Reduction Potential	10/30/2023 15:30	364.59	mv
GC-AP-MW-33	PH	pH	10/30/2023 15:30	4.6	SU
GC-AP-MW-33	TEMP	Temperature	10/30/2023 15:30	19.3	C
GC-AP-MW-33	TURB	Turbidity	10/30/2023 15:30	2.03	NTU
GC-AP-MW-33	COND	Conductivity	10/30/2023 15:35	76.5	uS/cm
GC-AP-MW-33	DO	DO	10/30/2023 15:35	3.6	mg/L
GC-AP-MW-33	DTW	Depth to Water Detail	10/30/2023 15:35	21.71	ft
GC-AP-MW-33	ORP	Oxidation Reduction Potential	10/30/2023 15:35	368.19	mv
GC-AP-MW-33	PH	pH	10/30/2023 15:35	4.63	SU
GC-AP-MW-33	SULFIDE	Sulfide	10/30/2023 15:35	0	mg/L
GC-AP-MW-33	TEMP	Temperature	10/30/2023 15:35	19.27	C
GC-AP-MW-33	TURB	Turbidity	10/30/2023 15:35	1.94	NTU
GC-AP-MW-39H	COND	Conductivity	10/31/2023 15:58	728.18	uS/cm
GC-AP-MW-39H	DO	DO	10/31/2023 15:58	0.09	mg/L
GC-AP-MW-39H	DTW	Depth to Water Detail	10/31/2023 15:58	36.05	ft
GC-AP-MW-39H	ORP	Oxidation Reduction Potential	10/31/2023 15:58	-59.13	mv
GC-AP-MW-39H	PH	pH	10/31/2023 15:58	6.57	SU
GC-AP-MW-39H	TEMP	Temperature	10/31/2023 15:58	19.55	C
GC-AP-MW-39H	TURB	Turbidity	10/31/2023 15:58	1.6	NTU
GC-AP-MW-39H	COND	Conductivity	10/31/2023 16:03	725.71	uS/cm
GC-AP-MW-39H	DO	DO	10/31/2023 16:03	0.07	mg/L
GC-AP-MW-39H	DTW	Depth to Water Detail	10/31/2023 16:03	36.05	ft
GC-AP-MW-39H	ORP	Oxidation Reduction Potential	10/31/2023 16:03	-60.47	mv
GC-AP-MW-39H	PH	pH	10/31/2023 16:03	6.58	SU
GC-AP-MW-39H	TEMP	Temperature	10/31/2023 16:03	19.58	C
GC-AP-MW-39H	TURB	Turbidity	10/31/2023 16:03	1.69	NTU
GC-AP-MW-39H	COND	Conductivity	10/31/2023 16:08	723.03	uS/cm
GC-AP-MW-39H	DO	DO	10/31/2023 16:08	0.06	mg/L
GC-AP-MW-39H	DTW	Depth to Water Detail	10/31/2023 16:08	36.05	ft
GC-AP-MW-39H	ORP	Oxidation Reduction Potential	10/31/2023 16:08	-60.98	mv
GC-AP-MW-39H	PH	pH	10/31/2023 16:08	6.57	SU

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-39H	TEMP	Temperature	10/31/2023 16:08	19.52	C
GC-AP-MW-39H	TURB	Turbidity	10/31/2023 16:08	1.44	NTU
GC-AP-MW-39H	COND	Conductivity	10/31/2023 16:13	721.04	uS/cm
GC-AP-MW-39H	DO	DO	10/31/2023 16:13	0.06	mg/L
GC-AP-MW-39H	DTW	Depth to Water Detail	10/31/2023 16:13	36.05	ft
GC-AP-MW-39H	ORP	Oxidation Reduction Potential	10/31/2023 16:13	-61.14	mv
GC-AP-MW-39H	PH	pH	10/31/2023 16:13	6.56	SU
GC-AP-MW-39H	SULFIDE	Sulfide	10/31/2023 16:13	0	mg/L
GC-AP-MW-39H	TEMP	Temperature	10/31/2023 16:13	19.6	C
GC-AP-MW-39H	TURB	Turbidity	10/31/2023 16:13	1.32	NTU
GC-AP-MW-41H	COND	Conductivity	10/31/2023 14:55	693.27	uS/cm
GC-AP-MW-41H	DO	DO	10/31/2023 14:55	0.05	mg/L
GC-AP-MW-41H	DTW	Depth to Water Detail	10/31/2023 14:55	12.96	ft
GC-AP-MW-41H	ORP	Oxidation Reduction Potential	10/31/2023 14:55	-28.73	mv
GC-AP-MW-41H	PH	pH	10/31/2023 14:55	6.52	SU
GC-AP-MW-41H	TEMP	Temperature	10/31/2023 14:55	20.33	C
GC-AP-MW-41H	TURB	Turbidity	10/31/2023 14:55	5.39	NTU
GC-AP-MW-41H	COND	Conductivity	10/31/2023 15:00	688.67	uS/cm
GC-AP-MW-41H	DO	DO	10/31/2023 15:00	0.04	mg/L
GC-AP-MW-41H	DTW	Depth to Water Detail	10/31/2023 15:00	12.96	ft
GC-AP-MW-41H	ORP	Oxidation Reduction Potential	10/31/2023 15:00	-27.87	mv
GC-AP-MW-41H	PH	pH	10/31/2023 15:00	6.5	SU
GC-AP-MW-41H	TEMP	Temperature	10/31/2023 15:00	20.36	C
GC-AP-MW-41H	TURB	Turbidity	10/31/2023 15:00	5.88	NTU
GC-AP-MW-41H	COND	Conductivity	10/31/2023 15:04	692.19	uS/cm
GC-AP-MW-41H	DO	DO	10/31/2023 15:04	0.04	mg/L
GC-AP-MW-41H	DTW	Depth to Water Detail	10/31/2023 15:04	12.96	ft
GC-AP-MW-41H	ORP	Oxidation Reduction Potential	10/31/2023 15:04	-26.63	mv
GC-AP-MW-41H	PH	pH	10/31/2023 15:04	6.49	SU
GC-AP-MW-41H	TEMP	Temperature	10/31/2023 15:04	20.33	C
GC-AP-MW-41H	TURB	Turbidity	10/31/2023 15:04	6.5	NTU
GC-AP-MW-41H	COND	Conductivity	10/31/2023 15:09	694.82	uS/cm
GC-AP-MW-41H	DO	DO	10/31/2023 15:09	0.04	mg/L
GC-AP-MW-41H	DTW	Depth to Water Detail	10/31/2023 15:09	12.96	ft
GC-AP-MW-41H	ORP	Oxidation Reduction Potential	10/31/2023 15:09	-25.46	mv
GC-AP-MW-41H	PH	pH	10/31/2023 15:09	6.49	SU
GC-AP-MW-41H	TEMP	Temperature	10/31/2023 15:09	20.35	C
GC-AP-MW-41H	TURB	Turbidity	10/31/2023 15:09	6.57	NTU
GC-AP-MW-41H	COND	Conductivity	10/31/2023 15:14	702.32	uS/cm
GC-AP-MW-41H	DO	DO	10/31/2023 15:14	0.04	mg/L
GC-AP-MW-41H	DTW	Depth to Water Detail	10/31/2023 15:14	12.96	ft
GC-AP-MW-41H	ORP	Oxidation Reduction Potential	10/31/2023 15:14	-25.04	mv
GC-AP-MW-41H	PH	pH	10/31/2023 15:14	6.48	SU
GC-AP-MW-41H	SULFIDE	Sulfide	10/31/2023 15:14	0	mg/L
GC-AP-MW-41H	TEMP	Temperature	10/31/2023 15:14	20.36	C
GC-AP-MW-41H	TURB	Turbidity	10/31/2023 15:14	6.12	NTU
GC-AP-MW-44H	COND	Conductivity	10/31/2023 9:38	741.06	uS/cm
GC-AP-MW-44H	DO	DO	10/31/2023 9:38	0.13	mg/L
GC-AP-MW-44H	DTW	Depth to Water Detail	10/31/2023 9:38	12.1	ft
GC-AP-MW-44H	ORP	Oxidation Reduction Potential	10/31/2023 9:38	-12.46	mv
GC-AP-MW-44H	PH	pH	10/31/2023 9:38	6.36	SU
GC-AP-MW-44H	TEMP	Temperature	10/31/2023 9:38	19.77	C
GC-AP-MW-44H	TURB	Turbidity	10/31/2023 9:38	11.2	NTU
GC-AP-MW-44H	COND	Conductivity	10/31/2023 9:43	737.58	uS/cm
GC-AP-MW-44H	DO	DO	10/31/2023 9:43	0.11	mg/L
GC-AP-MW-44H	DTW	Depth to Water Detail	10/31/2023 9:43	12.1	ft
GC-AP-MW-44H	ORP	Oxidation Reduction Potential	10/31/2023 9:43	-12.66	mv
GC-AP-MW-44H	PH	pH	10/31/2023 9:43	6.29	SU
GC-AP-MW-44H	TEMP	Temperature	10/31/2023 9:43	19.79	C
GC-AP-MW-44H	TURB	Turbidity	10/31/2023 9:43	9.31	NTU

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-44H	COND	Conductivity	10/31/2023 9:48	735.59	uS/cm
GC-AP-MW-44H	DO	DO	10/31/2023 9:48	0.1	mg/L
GC-AP-MW-44H	DTW	Depth to Water Detail	10/31/2023 9:48	12.1	ft
GC-AP-MW-44H	ORP	Oxidation Reduction Potential	10/31/2023 9:48	-11.48	mv
GC-AP-MW-44H	PH	pH	10/31/2023 9:48	6.23	SU
GC-AP-MW-44H	TEMP	Temperature	10/31/2023 9:48	19.75	C
GC-AP-MW-44H	TURB	Turbidity	10/31/2023 9:48	5.65	NTU
GC-AP-MW-44H	COND	Conductivity	10/31/2023 9:53	734.51	uS/cm
GC-AP-MW-44H	DO	DO	10/31/2023 9:53	0.09	mg/L
GC-AP-MW-44H	DTW	Depth to Water Detail	10/31/2023 9:53	12.1	ft
GC-AP-MW-44H	ORP	Oxidation Reduction Potential	10/31/2023 9:53	-10.38	mv
GC-AP-MW-44H	PH	pH	10/31/2023 9:53	6.2	SU
GC-AP-MW-44H	TEMP	Temperature	10/31/2023 9:53	19.74	C
GC-AP-MW-44H	TURB	Turbidity	10/31/2023 9:53	5.12	NTU
GC-AP-MW-44H	COND	Conductivity	10/31/2023 9:58	735.38	uS/cm
GC-AP-MW-44H	DO	DO	10/31/2023 9:58	0.08	mg/L
GC-AP-MW-44H	DTW	Depth to Water Detail	10/31/2023 9:58	12.1	ft
GC-AP-MW-44H	ORP	Oxidation Reduction Potential	10/31/2023 9:58	-10.2	mv
GC-AP-MW-44H	PH	pH	10/31/2023 9:58	6.2	SU
GC-AP-MW-44H	SULFIDE	Sulfide	10/31/2023 9:58	0	mg/L
GC-AP-MW-44H	TEMP	Temperature	10/31/2023 9:58	19.75	C
GC-AP-MW-44H	TURB	Turbidity	10/31/2023 9:58	5.87	NTU
GC-AP-MW-45H	COND	Conductivity	10/31/2023 14:08	719.52	uS/cm
GC-AP-MW-45H	DO	DO	10/31/2023 14:08	0.12	mg/L
GC-AP-MW-45H	DTW	Depth to Water Detail	10/31/2023 14:08	21.26	ft
GC-AP-MW-45H	ORP	Oxidation Reduction Potential	10/31/2023 14:08	23.43	mv
GC-AP-MW-45H	PH	pH	10/31/2023 14:08	6.81	SU
GC-AP-MW-45H	TEMP	Temperature	10/31/2023 14:08	20.87	C
GC-AP-MW-45H	TURB	Turbidity	10/31/2023 14:08	6.03	NTU
GC-AP-MW-45H	COND	Conductivity	10/31/2023 14:13	718.29	uS/cm
GC-AP-MW-45H	DO	DO	10/31/2023 14:13	0.1	mg/L
GC-AP-MW-45H	DTW	Depth to Water Detail	10/31/2023 14:13	21.26	ft
GC-AP-MW-45H	ORP	Oxidation Reduction Potential	10/31/2023 14:13	27.46	mv
GC-AP-MW-45H	PH	pH	10/31/2023 14:13	6.82	SU
GC-AP-MW-45H	TEMP	Temperature	10/31/2023 14:13	20.81	C
GC-AP-MW-45H	TURB	Turbidity	10/31/2023 14:13	5.39	NTU
GC-AP-MW-45H	COND	Conductivity	10/31/2023 14:18	717.73	uS/cm
GC-AP-MW-45H	DO	DO	10/31/2023 14:18	0.09	mg/L
GC-AP-MW-45H	DTW	Depth to Water Detail	10/31/2023 14:18	21.26	ft
GC-AP-MW-45H	ORP	Oxidation Reduction Potential	10/31/2023 14:18	28.32	mv
GC-AP-MW-45H	PH	pH	10/31/2023 14:18	6.83	SU
GC-AP-MW-45H	TEMP	Temperature	10/31/2023 14:18	20.8	C
GC-AP-MW-45H	TURB	Turbidity	10/31/2023 14:18	3.18	NTU
GC-AP-MW-45H	COND	Conductivity	10/31/2023 14:23	717.04	uS/cm
GC-AP-MW-45H	DO	DO	10/31/2023 14:23	0.09	mg/L
GC-AP-MW-45H	DTW	Depth to Water Detail	10/31/2023 14:23	21.26	ft
GC-AP-MW-45H	ORP	Oxidation Reduction Potential	10/31/2023 14:23	28.36	mv
GC-AP-MW-45H	PH	pH	10/31/2023 14:23	6.83	SU
GC-AP-MW-45H	SULFIDE	Sulfide	10/31/2023 14:23	0	mg/L
GC-AP-MW-45H	TEMP	Temperature	10/31/2023 14:23	20.73	C
GC-AP-MW-45H	TURB	Turbidity	10/31/2023 14:23	2.97	NTU
GC-AP-MW-53H	COND	Conductivity	10/31/2023 11:26	634.34	uS/cm
GC-AP-MW-53H	DO	DO	10/31/2023 11:26	0.07	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	10/31/2023 11:26	13.67	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potential	10/31/2023 11:26	-98.11	mv
GC-AP-MW-53H	PH	pH	10/31/2023 11:26	6.57	SU
GC-AP-MW-53H	TEMP	Temperature	10/31/2023 11:26	22.53	C
GC-AP-MW-53H	TURB	Turbidity	10/31/2023 11:26	100	NTU
GC-AP-MW-53H	COND	Conductivity	10/31/2023 11:31	628.18	uS/cm
GC-AP-MW-53H	DO	DO	10/31/2023 11:31	0.11	mg/L

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-53H	DTW	Depth to Water Detail	10/31/2023 11:31	13.67	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potential	10/31/2023 11:31	-106.39	mv
GC-AP-MW-53H	PH	pH	10/31/2023 11:31	6.61	SU
GC-AP-MW-53H	TEMP	Temperature	10/31/2023 11:31	22.29	C
GC-AP-MW-53H	TURB	Turbidity	10/31/2023 11:31	101.7	NTU
GC-AP-MW-53H	COND	Conductivity	10/31/2023 11:36	616.03	uS/cm
GC-AP-MW-53H	DO	DO	10/31/2023 11:36	0.11	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	10/31/2023 11:36	13.67	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potential	10/31/2023 11:36	-108.13	mv
GC-AP-MW-53H	PH	pH	10/31/2023 11:36	6.61	SU
GC-AP-MW-53H	TEMP	Temperature	10/31/2023 11:36	21.79	C
GC-AP-MW-53H	TURB	Turbidity	10/31/2023 11:36	85.7	NTU
GC-AP-MW-53H	COND	Conductivity	10/31/2023 11:41	612.18	uS/cm
GC-AP-MW-53H	DO	DO	10/31/2023 11:41	0.09	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	10/31/2023 11:41	13.67	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potential	10/31/2023 11:41	-109.22	mv
GC-AP-MW-53H	PH	pH	10/31/2023 11:41	6.61	SU
GC-AP-MW-53H	TEMP	Temperature	10/31/2023 11:41	21.97	C
GC-AP-MW-53H	TURB	Turbidity	10/31/2023 11:41	50.1	NTU
GC-AP-MW-53H	COND	Conductivity	10/31/2023 11:46	611.68	uS/cm
GC-AP-MW-53H	DO	DO	10/31/2023 11:46	0.08	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	10/31/2023 11:46	13.67	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potential	10/31/2023 11:46	-109.7	mv
GC-AP-MW-53H	PH	pH	10/31/2023 11:46	6.61	SU
GC-AP-MW-53H	TEMP	Temperature	10/31/2023 11:46	22.02	C
GC-AP-MW-53H	TURB	Turbidity	10/31/2023 11:46	46.5	NTU
GC-AP-MW-53H	COND	Conductivity	10/31/2023 11:51	609.2	uS/cm
GC-AP-MW-53H	DO	DO	10/31/2023 11:51	0.09	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	10/31/2023 11:51	13.67	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potential	10/31/2023 11:51	-109.26	mv
GC-AP-MW-53H	PH	pH	10/31/2023 11:51	6.61	SU
GC-AP-MW-53H	TEMP	Temperature	10/31/2023 11:51	21.7	C
GC-AP-MW-53H	TURB	Turbidity	10/31/2023 11:51	40.6	NTU
GC-AP-MW-53H	COND	Conductivity	10/31/2023 11:56	610.54	uS/cm
GC-AP-MW-53H	DO	DO	10/31/2023 11:56	0.08	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	10/31/2023 11:56	13.67	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potential	10/31/2023 11:56	-109.7	mv
GC-AP-MW-53H	PH	pH	10/31/2023 11:56	6.61	SU
GC-AP-MW-53H	TEMP	Temperature	10/31/2023 11:56	22.24	C
GC-AP-MW-53H	TURB	Turbidity	10/31/2023 11:56	23.8	NTU
GC-AP-MW-53H	COND	Conductivity	10/31/2023 12:01	610.74	uS/cm
GC-AP-MW-53H	DO	DO	10/31/2023 12:01	0.08	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	10/31/2023 12:01	13.67	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potential	10/31/2023 12:01	-108.64	mv
GC-AP-MW-53H	PH	pH	10/31/2023 12:01	6.6	SU
GC-AP-MW-53H	TEMP	Temperature	10/31/2023 12:01	22.27	C
GC-AP-MW-53H	TURB	Turbidity	10/31/2023 12:01	18.8	NTU
GC-AP-MW-53H	COND	Conductivity	10/31/2023 12:06	609.56	uS/cm
GC-AP-MW-53H	DO	DO	10/31/2023 12:06	0.07	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	10/31/2023 12:06	13.67	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potential	10/31/2023 12:06	-108.44	mv
GC-AP-MW-53H	PH	pH	10/31/2023 12:06	6.6	SU
GC-AP-MW-53H	TEMP	Temperature	10/31/2023 12:06	22.3	C
GC-AP-MW-53H	TURB	Turbidity	10/31/2023 12:06	14.1	NTU
GC-AP-MW-53H	COND	Conductivity	10/31/2023 12:11	608.8	uS/cm
GC-AP-MW-53H	DO	DO	10/31/2023 12:11	0.08	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	10/31/2023 12:11	13.67	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potential	10/31/2023 12:11	-107.08	mv
GC-AP-MW-53H	PH	pH	10/31/2023 12:11	6.57	SU
GC-AP-MW-53H	TEMP	Temperature	10/31/2023 12:11	22.4	C

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-53H	TURB	Turbidity	10/31/2023 12:11	10.6	NTU
GC-AP-MW-53H	COND	Conductivity	10/31/2023 12:16	606.78	uS/cm
GC-AP-MW-53H	DO	DO	10/31/2023 12:16	0.08	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	10/31/2023 12:16	13.67	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potential	10/31/2023 12:16	-106.78	mv
GC-AP-MW-53H	PH	pH	10/31/2023 12:16	6.55	SU
GC-AP-MW-53H	TEMP	Temperature	10/31/2023 12:16	22.43	C
GC-AP-MW-53H	TURB	Turbidity	10/31/2023 12:16	10.24	NTU
GC-AP-MW-53H	COND	Conductivity	10/31/2023 12:21	606.97	uS/cm
GC-AP-MW-53H	DO	DO	10/31/2023 12:21	0.07	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	10/31/2023 12:21	13.67	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potential	10/31/2023 12:21	-107.44	mv
GC-AP-MW-53H	PH	pH	10/31/2023 12:21	6.55	SU
GC-AP-MW-53H	TEMP	Temperature	10/31/2023 12:21	22.5	C
GC-AP-MW-53H	TURB	Turbidity	10/31/2023 12:21	10.18	NTU
GC-AP-MW-53H	COND	Conductivity	10/31/2023 12:26	605.95	uS/cm
GC-AP-MW-53H	DO	DO	10/31/2023 12:26	0.07	mg/L
GC-AP-MW-53H	DTW	Depth to Water Detail	10/31/2023 12:26	13.67	ft
GC-AP-MW-53H	ORP	Oxidation Reduction Potential	10/31/2023 12:26	-110.51	mv
GC-AP-MW-53H	PH	pH	10/31/2023 12:26	6.61	SU
GC-AP-MW-53H	SULFIDE	Sulfide	10/31/2023 12:26	0	mg/L
GC-AP-MW-53H	TEMP	Temperature	10/31/2023 12:26	22.5	C
GC-AP-MW-53H	TURB	Turbidity	10/31/2023 12:26	8.02	NTU
GC-AP-MW-54H	COND	Conductivity	10/31/2023 10:36	785.53	uS/cm
GC-AP-MW-54H	DO	DO	10/31/2023 10:36	0.11	mg/L
GC-AP-MW-54H	DTW	Depth to Water Detail	10/31/2023 10:36	12.84	ft
GC-AP-MW-54H	ORP	Oxidation Reduction Potential	10/31/2023 10:36	-128.77	mv
GC-AP-MW-54H	PH	pH	10/31/2023 10:36	6.76	SU
GC-AP-MW-54H	TEMP	Temperature	10/31/2023 10:36	20.97	C
GC-AP-MW-54H	TURB	Turbidity	10/31/2023 10:36	11.6	NTU
GC-AP-MW-54H	COND	Conductivity	10/31/2023 10:41	777.02	uS/cm
GC-AP-MW-54H	DO	DO	10/31/2023 10:41	0.11	mg/L
GC-AP-MW-54H	DTW	Depth to Water Detail	10/31/2023 10:41	12.84	ft
GC-AP-MW-54H	ORP	Oxidation Reduction Potential	10/31/2023 10:41	-127.98	mv
GC-AP-MW-54H	PH	pH	10/31/2023 10:41	6.76	SU
GC-AP-MW-54H	TEMP	Temperature	10/31/2023 10:41	20.54	C
GC-AP-MW-54H	TURB	Turbidity	10/31/2023 10:41	10.8	NTU
GC-AP-MW-54H	COND	Conductivity	10/31/2023 10:46	770.46	uS/cm
GC-AP-MW-54H	DO	DO	10/31/2023 10:46	0.11	mg/L
GC-AP-MW-54H	DTW	Depth to Water Detail	10/31/2023 10:46	12.84	ft
GC-AP-MW-54H	ORP	Oxidation Reduction Potential	10/31/2023 10:46	-121.15	mv
GC-AP-MW-54H	PH	pH	10/31/2023 10:46	6.78	SU
GC-AP-MW-54H	TEMP	Temperature	10/31/2023 10:46	20.06	C
GC-AP-MW-54H	TURB	Turbidity	10/31/2023 10:46	9.69	NTU
GC-AP-MW-54H	COND	Conductivity	10/31/2023 10:51	772.3	uS/cm
GC-AP-MW-54H	DO	DO	10/31/2023 10:51	0.07	mg/L
GC-AP-MW-54H	DTW	Depth to Water Detail	10/31/2023 10:51	12.84	ft
GC-AP-MW-54H	ORP	Oxidation Reduction Potential	10/31/2023 10:51	-128.1	mv
GC-AP-MW-54H	PH	pH	10/31/2023 10:51	6.78	SU
GC-AP-MW-54H	TEMP	Temperature	10/31/2023 10:51	20.91	C
GC-AP-MW-54H	TURB	Turbidity	10/31/2023 10:51	10.49	NTU
GC-AP-MW-54H	COND	Conductivity	10/31/2023 10:56	770.46	uS/cm
GC-AP-MW-54H	DO	DO	10/31/2023 10:56	0.07	mg/L
GC-AP-MW-54H	DTW	Depth to Water Detail	10/31/2023 10:56	12.84	ft
GC-AP-MW-54H	ORP	Oxidation Reduction Potential	10/31/2023 10:56	-129.14	mv
GC-AP-MW-54H	PH	pH	10/31/2023 10:56	6.8	SU
GC-AP-MW-54H	SULFIDE	Sulfide	10/31/2023 10:56	0	mg/L
GC-AP-MW-54H	TEMP	Temperature	10/31/2023 10:56	20.99	C
GC-AP-MW-54H	TURB	Turbidity	10/31/2023 10:56	7.88	NTU
GC-AP-MW-57H	COND	Conductivity	10/31/2023 13:02	391.68	uS/cm

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-57H	DO	DO	10/31/2023 13:02	0.07	mg/L
GC-AP-MW-57H	DTW	Depth to Water Detail	10/31/2023 13:02	10.56	ft
GC-AP-MW-57H	ORP	Oxidation Reduction Potential	10/31/2023 13:02	-50.43	mv
GC-AP-MW-57H	PH	pH	10/31/2023 13:02	6.4	SU
GC-AP-MW-57H	TEMP	Temperature	10/31/2023 13:02	20.48	C
GC-AP-MW-57H	TURB	Turbidity	10/31/2023 13:02	2.69	NTU
GC-AP-MW-57H	COND	Conductivity	10/31/2023 13:07	392.52	uS/cm
GC-AP-MW-57H	DO	DO	10/31/2023 13:07	0.06	mg/L
GC-AP-MW-57H	DTW	Depth to Water Detail	10/31/2023 13:07	10.56	ft
GC-AP-MW-57H	ORP	Oxidation Reduction Potential	10/31/2023 13:07	-51.22	mv
GC-AP-MW-57H	PH	pH	10/31/2023 13:07	6.4	SU
GC-AP-MW-57H	TEMP	Temperature	10/31/2023 13:07	20.52	C
GC-AP-MW-57H	TURB	Turbidity	10/31/2023 13:07	2.48	NTU
GC-AP-MW-57H	COND	Conductivity	10/31/2023 13:12	390.78	uS/cm
GC-AP-MW-57H	DO	DO	10/31/2023 13:12	0.05	mg/L
GC-AP-MW-57H	DTW	Depth to Water Detail	10/31/2023 13:12	10.56	ft
GC-AP-MW-57H	ORP	Oxidation Reduction Potential	10/31/2023 13:12	-53.28	mv
GC-AP-MW-57H	PH	pH	10/31/2023 13:12	6.43	SU
GC-AP-MW-57H	TEMP	Temperature	10/31/2023 13:12	20.41	C
GC-AP-MW-57H	TURB	Turbidity	10/31/2023 13:12	2.26	NTU
GC-AP-MW-57H	COND	Conductivity	10/31/2023 13:17	387.98	uS/cm
GC-AP-MW-57H	DO	DO	10/31/2023 13:17	0.05	mg/L
GC-AP-MW-57H	DTW	Depth to Water Detail	10/31/2023 13:17	10.56	ft
GC-AP-MW-57H	ORP	Oxidation Reduction Potential	10/31/2023 13:17	-55.98	mv
GC-AP-MW-57H	PH	pH	10/31/2023 13:17	6.46	SU
GC-AP-MW-57H	SULFIDE	Sulfide	10/31/2023 13:17	0	mg/L
GC-AP-MW-57H	TEMP	Temperature	10/31/2023 13:17	20.44	C
GC-AP-MW-57H	TURB	Turbidity	10/31/2023 13:17	2.32	NTU
GC-AP-MW-10	COND	Conductivity	11/1/2023 10:51	605.47	uS/cm
GC-AP-MW-10	DO	DO	11/1/2023 10:51	0.52	mg/L
GC-AP-MW-10	DTW	Depth to Water Detail	11/1/2023 10:51	10.95	ft
GC-AP-MW-10	ORP	Oxidation Reduction Potential	11/1/2023 10:51	-65.09	mv
GC-AP-MW-10	PH	pH	11/1/2023 10:51	6.95	SU
GC-AP-MW-10	TEMP	Temperature	11/1/2023 10:51	19.89	C
GC-AP-MW-10	TURB	Turbidity	11/1/2023 10:51	17.5	NTU
GC-AP-MW-10	COND	Conductivity	11/1/2023 10:56	597.17	uS/cm
GC-AP-MW-10	DO	DO	11/1/2023 10:56	0.42	mg/L
GC-AP-MW-10	DTW	Depth to Water Detail	11/1/2023 10:56	10.95	ft
GC-AP-MW-10	ORP	Oxidation Reduction Potential	11/1/2023 10:56	-65.63	mv
GC-AP-MW-10	PH	pH	11/1/2023 10:56	6.93	SU
GC-AP-MW-10	TEMP	Temperature	11/1/2023 10:56	19.94	C
GC-AP-MW-10	TURB	Turbidity	11/1/2023 10:56	10.7	NTU
GC-AP-MW-10	COND	Conductivity	11/1/2023 11:01	599.61	uS/cm
GC-AP-MW-10	DO	DO	11/1/2023 11:01	0.39	mg/L
GC-AP-MW-10	DTW	Depth to Water Detail	11/1/2023 11:01	10.95	ft
GC-AP-MW-10	ORP	Oxidation Reduction Potential	11/1/2023 11:01	-65.56	mv
GC-AP-MW-10	PH	pH	11/1/2023 11:01	6.91	SU
GC-AP-MW-10	TEMP	Temperature	11/1/2023 11:01	19.84	C
GC-AP-MW-10	TURB	Turbidity	11/1/2023 11:01	5.64	NTU
GC-AP-MW-10	COND	Conductivity	11/1/2023 11:06	596.14	uS/cm
GC-AP-MW-10	DO	DO	11/1/2023 11:06	0.37	mg/L
GC-AP-MW-10	DTW	Depth to Water Detail	11/1/2023 11:06	10.95	ft
GC-AP-MW-10	ORP	Oxidation Reduction Potential	11/1/2023 11:06	-65.16	mv
GC-AP-MW-10	PH	pH	11/1/2023 11:06	6.91	SU
GC-AP-MW-10	SULFIDE	Sulfide	11/1/2023 11:06	0	mg/L
GC-AP-MW-10	TEMP	Temperature	11/1/2023 11:06	19.83	C
GC-AP-MW-10	TURB	Turbidity	11/1/2023 11:06	4.29	NTU
GC-AP-MW-14	COND	Conductivity	11/1/2023 11:38	805.66	uS/cm
GC-AP-MW-14	DO	DO	11/1/2023 11:38	0.47	mg/L
GC-AP-MW-14	DTW	Depth to Water Detail	11/1/2023 11:38	11.38	ft



**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-14	ORP	Oxidation Reduction Potential	11/1/2023 11:38	-72.17	mv
GC-AP-MW-14	PH	pH	11/1/2023 11:38	6.83	SU
GC-AP-MW-14	TEMP	Temperature	11/1/2023 11:38	20.24	C
GC-AP-MW-14	TURB	Turbidity	11/1/2023 11:38	8.91	NTU
GC-AP-MW-14	COND	Conductivity	11/1/2023 11:43	798.83	uS/cm
GC-AP-MW-14	DO	DO	11/1/2023 11:43	0.44	mg/L
GC-AP-MW-14	DTW	Depth to Water Detail	11/1/2023 11:43	11.38	ft
GC-AP-MW-14	ORP	Oxidation Reduction Potential	11/1/2023 11:43	-71.68	mv
GC-AP-MW-14	PH	pH	11/1/2023 11:43	6.81	SU
GC-AP-MW-14	TEMP	Temperature	11/1/2023 11:43	20.23	C
GC-AP-MW-14	TURB	Turbidity	11/1/2023 11:43	6.65	NTU
GC-AP-MW-14	COND	Conductivity	11/1/2023 11:48	798.8	uS/cm
GC-AP-MW-14	DO	DO	11/1/2023 11:48	0.38	mg/L
GC-AP-MW-14	DTW	Depth to Water Detail	11/1/2023 11:48	11.38	ft
GC-AP-MW-14	ORP	Oxidation Reduction Potential	11/1/2023 11:48	-71.03	mv
GC-AP-MW-14	PH	pH	11/1/2023 11:48	6.8	SU
GC-AP-MW-14	TEMP	Temperature	11/1/2023 11:48	20.25	C
GC-AP-MW-14	TURB	Turbidity	11/1/2023 11:48	2.87	NTU
GC-AP-MW-14	COND	Conductivity	11/1/2023 11:53	795.4	uS/cm
GC-AP-MW-14	DO	DO	11/1/2023 11:53	0.32	mg/L
GC-AP-MW-14	DTW	Depth to Water Detail	11/1/2023 11:53	11.38	ft
GC-AP-MW-14	ORP	Oxidation Reduction Potential	11/1/2023 11:53	-71.08	mv
GC-AP-MW-14	PH	pH	11/1/2023 11:53	6.8	SU
GC-AP-MW-14	SULFIDE	Sulfide	11/1/2023 11:53	0	mg/L
GC-AP-MW-14	TEMP	Temperature	11/1/2023 11:53	20.28	C
GC-AP-MW-14	TURB	Turbidity	11/1/2023 11:53	2.72	NTU
GC-AP-MW-25	COND	Conductivity	11/1/2023 12:42	307.16	uS/cm
GC-AP-MW-25	DO	DO	11/1/2023 12:42	0.57	mg/L
GC-AP-MW-25	DTW	Depth to Water Detail	11/1/2023 12:42	18.98	ft
GC-AP-MW-25	ORP	Oxidation Reduction Potential	11/1/2023 12:42	222.03	mv
GC-AP-MW-25	PH	pH	11/1/2023 12:42	5.36	SU
GC-AP-MW-25	TEMP	Temperature	11/1/2023 12:42	20.41	C
GC-AP-MW-25	TURB	Turbidity	11/1/2023 12:42	3.98	NTU
GC-AP-MW-25	COND	Conductivity	11/1/2023 12:47	345.16	uS/cm
GC-AP-MW-25	DO	DO	11/1/2023 12:47	0.5	mg/L
GC-AP-MW-25	DTW	Depth to Water Detail	11/1/2023 12:47	18.98	ft
GC-AP-MW-25	ORP	Oxidation Reduction Potential	11/1/2023 12:47	165.93	mv
GC-AP-MW-25	PH	pH	11/1/2023 12:47	5.78	SU
GC-AP-MW-25	TEMP	Temperature	11/1/2023 12:47	20.46	C
GC-AP-MW-25	TURB	Turbidity	11/1/2023 12:47	3.41	NTU
GC-AP-MW-25	COND	Conductivity	11/1/2023 12:52	347.15	uS/cm
GC-AP-MW-25	DO	DO	11/1/2023 12:52	0.47	mg/L
GC-AP-MW-25	DTW	Depth to Water Detail	11/1/2023 12:52	18.98	ft
GC-AP-MW-25	ORP	Oxidation Reduction Potential	11/1/2023 12:52	136.8	mv
GC-AP-MW-25	PH	pH	11/1/2023 12:52	5.95	SU
GC-AP-MW-25	TEMP	Temperature	11/1/2023 12:52	20.36	C
GC-AP-MW-25	TURB	Turbidity	11/1/2023 12:52	2.03	NTU
GC-AP-MW-25	COND	Conductivity	11/1/2023 12:57	345.22	uS/cm
GC-AP-MW-25	DO	DO	11/1/2023 12:57	0.47	mg/L
GC-AP-MW-25	DTW	Depth to Water Detail	11/1/2023 12:57	18.98	ft
GC-AP-MW-25	ORP	Oxidation Reduction Potential	11/1/2023 12:57	131	mv
GC-AP-MW-25	PH	pH	11/1/2023 12:57	5.98	SU
GC-AP-MW-25	TEMP	Temperature	11/1/2023 12:57	20.4	C
GC-AP-MW-25	TURB	Turbidity	11/1/2023 12:57	2.16	NTU
GC-AP-MW-25	COND	Conductivity	11/1/2023 13:02	346.57	uS/cm
GC-AP-MW-25	DO	DO	11/1/2023 13:02	0.47	mg/L
GC-AP-MW-25	DTW	Depth to Water Detail	11/1/2023 13:02	18.98	ft
GC-AP-MW-25	ORP	Oxidation Reduction Potential	11/1/2023 13:02	127.31	mv
GC-AP-MW-25	PH	pH	11/1/2023 13:02	6.01	SU
GC-AP-MW-25	SULFIDE	Sulfide	11/1/2023 13:02	0	mg/L

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-25	TEMP	Temperature	11/1/2023 13:02	20.36	C
GC-AP-MW-25	TURB	Turbidity	11/1/2023 13:02	1.89	NTU
GC-AP-MW-34HA	COND	Conductivity	11/1/2023 13:57	184.74	uS/cm
GC-AP-MW-34HA	DO	DO	11/1/2023 13:57	1.3	mg/L
GC-AP-MW-34HA	DTW	Depth to Water Detail	11/1/2023 13:57	23.64	ft
GC-AP-MW-34HA	ORP	Oxidation Reduction Potential	11/1/2023 13:57	166.99	mv
GC-AP-MW-34HA	PH	pH	11/1/2023 13:57	5.94	SU
GC-AP-MW-34HA	TEMP	Temperature	11/1/2023 13:57	23.18	C
GC-AP-MW-34HA	TURB	Turbidity	11/1/2023 13:57	2.45	NTU
GC-AP-MW-34HA	COND	Conductivity	11/1/2023 14:02	183.7	uS/cm
GC-AP-MW-34HA	DO	DO	11/1/2023 14:02	1.26	mg/L
GC-AP-MW-34HA	DTW	Depth to Water Detail	11/1/2023 14:02	23.64	ft
GC-AP-MW-34HA	ORP	Oxidation Reduction Potential	11/1/2023 14:02	181.63	mv
GC-AP-MW-34HA	PH	pH	11/1/2023 14:02	5.95	SU
GC-AP-MW-34HA	TEMP	Temperature	11/1/2023 14:02	23.2	C
GC-AP-MW-34HA	TURB	Turbidity	11/1/2023 14:02	2.14	NTU
GC-AP-MW-34HA	COND	Conductivity	11/1/2023 14:07	183.98	uS/cm
GC-AP-MW-34HA	DO	DO	11/1/2023 14:07	1.35	mg/L
GC-AP-MW-34HA	DTW	Depth to Water Detail	11/1/2023 14:07	23.64	ft
GC-AP-MW-34HA	ORP	Oxidation Reduction Potential	11/1/2023 14:07	194.49	mv
GC-AP-MW-34HA	PH	pH	11/1/2023 14:07	5.93	SU
GC-AP-MW-34HA	TEMP	Temperature	11/1/2023 14:07	23.18	C
GC-AP-MW-34HA	TURB	Turbidity	11/1/2023 14:07	1.96	NTU
GC-AP-MW-34HA	COND	Conductivity	11/1/2023 14:12	184.14	uS/cm
GC-AP-MW-34HA	DO	DO	11/1/2023 14:12	1.38	mg/L
GC-AP-MW-34HA	DTW	Depth to Water Detail	11/1/2023 14:12	23.64	ft
GC-AP-MW-34HA	ORP	Oxidation Reduction Potential	11/1/2023 14:12	200.7	mv
GC-AP-MW-34HA	PH	pH	11/1/2023 14:12	5.96	SU
GC-AP-MW-34HA	SULFIDE	Sulfide	11/1/2023 14:12	0	mg/L
GC-AP-MW-34HA	TEMP	Temperature	11/1/2023 14:12	23.3	C
GC-AP-MW-34HA	TURB	Turbidity	11/1/2023 14:12	1.87	NTU
GC-AP-MW-47HO	COND	Conductivity	10/24/2023 8:26	140.48	uS/cm
GC-AP-MW-47HO	DO	DO	10/24/2023 8:26	1.71	mg/L
GC-AP-MW-47HO	DTW	Depth to Water Detail	10/24/2023 8:26	15	ft
GC-AP-MW-47HO	ORP	Oxidation Reduction Potential	10/24/2023 8:26	133.59	mv
GC-AP-MW-47HO	PH	pH	10/24/2023 8:26	6.04	SU
GC-AP-MW-47HO	TEMP	Temperature	10/24/2023 8:26	23.26	C
GC-AP-MW-47HO	TURB	Turbidity	10/24/2023 8:26	2.21	NTU
GC-AP-MW-47HO	COND	Conductivity	10/24/2023 8:31	141.25	uS/cm
GC-AP-MW-47HO	DO	DO	10/24/2023 8:31	1.98	mg/L
GC-AP-MW-47HO	DTW	Depth to Water Detail	10/24/2023 8:31	15	ft
GC-AP-MW-47HO	ORP	Oxidation Reduction Potential	10/24/2023 8:31	147.65	mv
GC-AP-MW-47HO	PH	pH	10/24/2023 8:31	6.05	SU
GC-AP-MW-47HO	TEMP	Temperature	10/24/2023 8:31	23.22	C
GC-AP-MW-47HO	TURB	Turbidity	10/24/2023 8:31	2.16	NTU
GC-AP-MW-47HO	COND	Conductivity	10/24/2023 8:36	142.77	uS/cm
GC-AP-MW-47HO	DO	DO	10/24/2023 8:36	2.15	mg/L
GC-AP-MW-47HO	DTW	Depth to Water Detail	10/24/2023 8:36	15	ft
GC-AP-MW-47HO	ORP	Oxidation Reduction Potential	10/24/2023 8:36	157.1	mv
GC-AP-MW-47HO	PH	pH	10/24/2023 8:36	6.03	SU
GC-AP-MW-47HO	TEMP	Temperature	10/24/2023 8:36	23.27	C
GC-AP-MW-47HO	TURB	Turbidity	10/24/2023 8:36	2.02	NTU
GC-AP-MW-47HO	COND	Conductivity	10/24/2023 8:41	142.88	uS/cm
GC-AP-MW-47HO	DO	DO	10/24/2023 8:41	1.24	mg/L
GC-AP-MW-47HO	DTW	Depth to Water Detail	10/24/2023 8:41	15	ft
GC-AP-MW-47HO	ORP	Oxidation Reduction Potential	10/24/2023 8:41	163.67	mv
GC-AP-MW-47HO	PH	pH	10/24/2023 8:41	6.02	SU
GC-AP-MW-47HO	TEMP	Temperature	10/24/2023 8:41	23.23	C
GC-AP-MW-47HO	TURB	Turbidity	10/24/2023 8:41	1.89	NTU
GC-AP-MW-47HO	COND	Conductivity	10/24/2023 8:46	144.76	uS/cm

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-47HO	DO	DO	10/24/2023 8:46	2.2	mg/L
GC-AP-MW-47HO	DTW	Depth to Water Detail	10/24/2023 8:46	15	ft
GC-AP-MW-47HO	ORP	Oxidation Reduction Potential	10/24/2023 8:46	169.73	mv
GC-AP-MW-47HO	PH	pH	10/24/2023 8:46	5.99	SU
GC-AP-MW-47HO	TEMP	Temperature	10/24/2023 8:46	23.23	C
GC-AP-MW-47HO	TURB	Turbidity	10/24/2023 8:46	1.78	NTU
GC-AP-MW-47HO	COND	Conductivity	10/24/2023 8:51	144.89	uS/cm
GC-AP-MW-47HO	DO	DO	10/24/2023 8:51	2.17	mg/L
GC-AP-MW-47HO	DTW	Depth to Water Detail	10/24/2023 8:51	15	ft
GC-AP-MW-47HO	ORP	Oxidation Reduction Potential	10/24/2023 8:51	177.26	mv
GC-AP-MW-47HO	PH	pH	10/24/2023 8:51	5.91	SU
GC-AP-MW-47HO	TEMP	Temperature	10/24/2023 8:51	23.21	C
GC-AP-MW-47HO	TURB	Turbidity	10/24/2023 8:51	1.82	NTU
GC-AP-MW-47HO	COND	Conductivity	10/24/2023 8:56	144.41	uS/cm
GC-AP-MW-47HO	DO	DO	10/24/2023 8:56	2.14	mg/L
GC-AP-MW-47HO	DTW	Depth to Water Detail	10/24/2023 8:56	15	ft
GC-AP-MW-47HO	ORP	Oxidation Reduction Potential	10/24/2023 8:56	181.27	mv
GC-AP-MW-47HO	PH	pH	10/24/2023 8:56	5.85	SU
GC-AP-MW-47HO	SULFIDE	Sulfide	10/24/2023 8:56	0	mg/L
GC-AP-MW-47HO	TEMP	Temperature	10/24/2023 8:56	23.25	C
GC-AP-MW-47HO	TURB	Turbidity	10/24/2023 8:56	1.8	NTU
GC-AP-MW-50HO	COND	Conductivity	10/24/2023 9:42	241.51	uS/cm
GC-AP-MW-50HO	DO	DO	10/24/2023 9:42	0.14	mg/L
GC-AP-MW-50HO	DTW	Depth to Water Detail	10/24/2023 9:42	10.62	ft
GC-AP-MW-50HO	ORP	Oxidation Reduction Potential	10/24/2023 9:42	120.84	mv
GC-AP-MW-50HO	PH	pH	10/24/2023 9:42	6.09	SU
GC-AP-MW-50HO	TEMP	Temperature	10/24/2023 9:42	19.34	C
GC-AP-MW-50HO	TURB	Turbidity	10/24/2023 9:42	4.78	NTU
GC-AP-MW-50HO	COND	Conductivity	10/24/2023 9:47	242.32	uS/cm
GC-AP-MW-50HO	DO	DO	10/24/2023 9:47	0.11	mg/L
GC-AP-MW-50HO	DTW	Depth to Water Detail	10/24/2023 9:47	10.62	ft
GC-AP-MW-50HO	ORP	Oxidation Reduction Potential	10/24/2023 9:47	131.55	mv
GC-AP-MW-50HO	PH	pH	10/24/2023 9:47	6.07	SU
GC-AP-MW-50HO	TEMP	Temperature	10/24/2023 9:47	19.28	C
GC-AP-MW-50HO	TURB	Turbidity	10/24/2023 9:47	3.58	NTU
GC-AP-MW-50HO	COND	Conductivity	10/24/2023 9:52	243.82	uS/cm
GC-AP-MW-50HO	DO	DO	10/24/2023 9:52	0.11	mg/L
GC-AP-MW-50HO	DTW	Depth to Water Detail	10/24/2023 9:52	10.62	ft
GC-AP-MW-50HO	ORP	Oxidation Reduction Potential	10/24/2023 9:52	137.61	mv
GC-AP-MW-50HO	PH	pH	10/24/2023 9:52	6.06	SU
GC-AP-MW-50HO	TEMP	Temperature	10/24/2023 9:52	19.25	C
GC-AP-MW-50HO	TURB	Turbidity	10/24/2023 9:52	3.2	NTU
GC-AP-MW-50HO	COND	Conductivity	10/24/2023 9:57	243.63	uS/cm
GC-AP-MW-50HO	DO	DO	10/24/2023 9:57	0.1	mg/L
GC-AP-MW-50HO	DTW	Depth to Water Detail	10/24/2023 9:57	10.62	ft
GC-AP-MW-50HO	ORP	Oxidation Reduction Potential	10/24/2023 9:57	141.79	mv
GC-AP-MW-50HO	PH	pH	10/24/2023 9:57	6.05	SU
GC-AP-MW-50HO	SULFIDE	Sulfide	10/24/2023 9:57	0	mg/L
GC-AP-MW-50HO	TEMP	Temperature	10/24/2023 9:57	19.25	C
GC-AP-MW-50HO	TURB	Turbidity	10/24/2023 9:57	2.7	NTU
GC-AP-MW-55HO	COND	Conductivity	10/24/2023 13:54	42.12	uS/cm
GC-AP-MW-55HO	DO	DO	10/24/2023 13:54	6.54	mg/L
GC-AP-MW-55HO	DTW	Depth to Water Detail	10/24/2023 13:54	33.28	ft
GC-AP-MW-55HO	ORP	Oxidation Reduction Potential	10/24/2023 13:54	257.56	mv
GC-AP-MW-55HO	PH	pH	10/24/2023 13:54	4.7	SU
GC-AP-MW-55HO	TEMP	Temperature	10/24/2023 13:54	18.85	C
GC-AP-MW-55HO	TURB	Turbidity	10/24/2023 13:54	54.5	NTU
GC-AP-MW-55HO	COND	Conductivity	10/24/2023 13:59	46.33	uS/cm
GC-AP-MW-55HO	DO	DO	10/24/2023 13:59	6.43	mg/L
GC-AP-MW-55HO	DTW	Depth to Water Detail	10/24/2023 13:59	33.28	ft

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-55HO	ORP	Oxidation Reduction Potential	10/24/2023 13:59	272.8	mv
GC-AP-MW-55HO	PH	pH	10/24/2023 13:59	4.77	SU
GC-AP-MW-55HO	TEMP	Temperature	10/24/2023 13:59	18.78	C
GC-AP-MW-55HO	TURB	Turbidity	10/24/2023 13:59	22.2	NTU
GC-AP-MW-55HO	COND	Conductivity	10/24/2023 14:04	48.5	uS/cm
GC-AP-MW-55HO	DO	DO	10/24/2023 14:04	6.39	mg/L
GC-AP-MW-55HO	DTW	Depth to Water Detail	10/24/2023 14:04	33.28	ft
GC-AP-MW-55HO	ORP	Oxidation Reduction Potential	10/24/2023 14:04	274.2	mv
GC-AP-MW-55HO	PH	pH	10/24/2023 14:04	4.87	SU
GC-AP-MW-55HO	TEMP	Temperature	10/24/2023 14:04	18.77	C
GC-AP-MW-55HO	TURB	Turbidity	10/24/2023 14:04	13.4	NTU
GC-AP-MW-55HO	COND	Conductivity	10/24/2023 14:09	48.09	uS/cm
GC-AP-MW-55HO	DO	DO	10/24/2023 14:09	5.07	mg/L
GC-AP-MW-55HO	DTW	Depth to Water Detail	10/24/2023 14:09	33.28	ft
GC-AP-MW-55HO	ORP	Oxidation Reduction Potential	10/24/2023 14:09	273.08	mv
GC-AP-MW-55HO	PH	pH	10/24/2023 14:09	4.95	SU
GC-AP-MW-55HO	TEMP	Temperature	10/24/2023 14:09	18.8	C
GC-AP-MW-55HO	TURB	Turbidity	10/24/2023 14:09	5.79	NTU
GC-AP-MW-55HO	COND	Conductivity	10/24/2023 14:14	48.93	uS/cm
GC-AP-MW-55HO	DO	DO	10/24/2023 14:14	5.15	mg/L
GC-AP-MW-55HO	DTW	Depth to Water Detail	10/24/2023 14:14	33.28	ft
GC-AP-MW-55HO	ORP	Oxidation Reduction Potential	10/24/2023 14:14	272.55	mv
GC-AP-MW-55HO	PH	pH	10/24/2023 14:14	5.01	SU
GC-AP-MW-55HO	TEMP	Temperature	10/24/2023 14:14	18.8	C
GC-AP-MW-55HO	TURB	Turbidity	10/24/2023 14:14	5.2	NTU
GC-AP-MW-55HO	COND	Conductivity	10/24/2023 14:19	48.68	uS/cm
GC-AP-MW-55HO	DO	DO	10/24/2023 14:19	5.57	mg/L
GC-AP-MW-55HO	DTW	Depth to Water Detail	10/24/2023 14:19	33.28	ft
GC-AP-MW-55HO	ORP	Oxidation Reduction Potential	10/24/2023 14:19	273.74	mv
GC-AP-MW-55HO	PH	pH	10/24/2023 14:19	5.05	SU
GC-AP-MW-55HO	TEMP	Temperature	10/24/2023 14:19	18.78	C
GC-AP-MW-55HO	TURB	Turbidity	10/24/2023 14:19	4.95	NTU
GC-AP-MW-55HO	COND	Conductivity	10/24/2023 14:24	49.53	uS/cm
GC-AP-MW-55HO	DO	DO	10/24/2023 14:24	4.58	mg/L
GC-AP-MW-55HO	DTW	Depth to Water Detail	10/24/2023 14:24	33.28	ft
GC-AP-MW-55HO	ORP	Oxidation Reduction Potential	10/24/2023 14:24	275.72	mv
GC-AP-MW-55HO	PH	pH	10/24/2023 14:24	5.06	SU
GC-AP-MW-55HO	TEMP	Temperature	10/24/2023 14:24	18.71	C
GC-AP-MW-55HO	TURB	Turbidity	10/24/2023 14:24	4.98	NTU
GC-AP-MW-55HO	COND	Conductivity	10/24/2023 14:29	50.99	uS/cm
GC-AP-MW-55HO	DO	DO	10/24/2023 14:29	4.52	mg/L
GC-AP-MW-55HO	DTW	Depth to Water Detail	10/24/2023 14:29	33.28	ft
GC-AP-MW-55HO	ORP	Oxidation Reduction Potential	10/24/2023 14:29	274.64	mv
GC-AP-MW-55HO	PH	pH	10/24/2023 14:29	5.11	SU
GC-AP-MW-55HO	TEMP	Temperature	10/24/2023 14:29	18.71	C
GC-AP-MW-55HO	TURB	Turbidity	10/24/2023 14:29	4.81	NTU
GC-AP-MW-55HO	COND	Conductivity	10/24/2023 14:34	49.1	uS/cm
GC-AP-MW-55HO	DO	DO	10/24/2023 14:34	4.25	mg/L
GC-AP-MW-55HO	DTW	Depth to Water Detail	10/24/2023 14:34	33.28	ft
GC-AP-MW-55HO	ORP	Oxidation Reduction Potential	10/24/2023 14:34	278.11	mv
GC-AP-MW-55HO	PH	pH	10/24/2023 14:34	5.08	SU
GC-AP-MW-55HO	SULFIDE	Sulfide	10/24/2023 14:34	0	mg/L
GC-AP-MW-55HO	TEMP	Temperature	10/24/2023 14:34	18.69	C
GC-AP-MW-55HO	TURB	Turbidity	10/24/2023 14:34	4.85	NTU
GC-AP-MW-59HO	COND	Conductivity	10/24/2023 12:32	554.93	uS/cm
GC-AP-MW-59HO	DO	DO	10/24/2023 12:32	0.11	mg/L
GC-AP-MW-59HO	DTW	Depth to Water Detail	10/24/2023 12:32	12.31	ft
GC-AP-MW-59HO	ORP	Oxidation Reduction Potential	10/24/2023 12:32	69.99	mv
GC-AP-MW-59HO	PH	pH	10/24/2023 12:32	5.99	SU
GC-AP-MW-59HO	TEMP	Temperature	10/24/2023 12:32	19.28	C

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-59HO	TURB	Turbidity	10/24/2023 12:32	7.89	NTU
GC-AP-MW-59HO	COND	Conductivity	10/24/2023 12:37	558.12	uS/cm
GC-AP-MW-59HO	DO	DO	10/24/2023 12:37	0.11	mg/L
GC-AP-MW-59HO	DTW	Depth to Water Detail	10/24/2023 12:37	12.31	ft
GC-AP-MW-59HO	ORP	Oxidation Reduction Potential	10/24/2023 12:37	71.41	mv
GC-AP-MW-59HO	PH	pH	10/24/2023 12:37	6	SU
GC-AP-MW-59HO	TEMP	Temperature	10/24/2023 12:37	19.25	C
GC-AP-MW-59HO	TURB	Turbidity	10/24/2023 12:37	6.25	NTU
GC-AP-MW-59HO	COND	Conductivity	10/24/2023 12:42	559.36	uS/cm
GC-AP-MW-59HO	DO	DO	10/24/2023 12:42	0.1	mg/L
GC-AP-MW-59HO	DTW	Depth to Water Detail	10/24/2023 12:42	12.31	ft
GC-AP-MW-59HO	ORP	Oxidation Reduction Potential	10/24/2023 12:42	74.13	mv
GC-AP-MW-59HO	PH	pH	10/24/2023 12:42	6	SU
GC-AP-MW-59HO	TEMP	Temperature	10/24/2023 12:42	19.23	C
GC-AP-MW-59HO	TURB	Turbidity	10/24/2023 12:42	5.28	NTU
GC-AP-MW-59HO	COND	Conductivity	10/24/2023 12:47	558.36	uS/cm
GC-AP-MW-59HO	DO	DO	10/24/2023 12:47	0.09	mg/L
GC-AP-MW-59HO	DTW	Depth to Water Detail	10/24/2023 12:47	12.31	ft
GC-AP-MW-59HO	ORP	Oxidation Reduction Potential	10/24/2023 12:47	74.17	mv
GC-AP-MW-59HO	PH	pH	10/24/2023 12:47	6.01	SU
GC-AP-MW-59HO	SULFIDE	Sulfide	10/24/2023 12:47	0	mg/L
GC-AP-MW-59HO	TEMP	Temperature	10/24/2023 12:47	19.24	C
GC-AP-MW-59HO	TURB	Turbidity	10/24/2023 12:47	5.3	NTU
GC-AP-MW-60HO	COND	Conductivity	10/24/2023 10:43	40.11	uS/cm
GC-AP-MW-60HO	DO	DO	10/24/2023 10:43	5.76	mg/L
GC-AP-MW-60HO	DTW	Depth to Water Detail	10/24/2023 10:43	22.32	ft
GC-AP-MW-60HO	ORP	Oxidation Reduction Potential	10/24/2023 10:43	298.33	mv
GC-AP-MW-60HO	PH	pH	10/24/2023 10:43	4.7	SU
GC-AP-MW-60HO	TEMP	Temperature	10/24/2023 10:43	18.76	C
GC-AP-MW-60HO	TURB	Turbidity	10/24/2023 10:43	5.91	NTU
GC-AP-MW-60HO	COND	Conductivity	10/24/2023 10:48	45.64	uS/cm
GC-AP-MW-60HO	DO	DO	10/24/2023 10:48	5.56	mg/L
GC-AP-MW-60HO	DTW	Depth to Water Detail	10/24/2023 10:48	22.32	ft
GC-AP-MW-60HO	ORP	Oxidation Reduction Potential	10/24/2023 10:48	300.92	mv
GC-AP-MW-60HO	PH	pH	10/24/2023 10:48	4.84	SU
GC-AP-MW-60HO	TEMP	Temperature	10/24/2023 10:48	18.74	C
GC-AP-MW-60HO	TURB	Turbidity	10/24/2023 10:48	5.18	NTU
GC-AP-MW-60HO	COND	Conductivity	10/24/2023 10:53	49.4	uS/cm
GC-AP-MW-60HO	DO	DO	10/24/2023 10:53	5.47	mg/L
GC-AP-MW-60HO	DTW	Depth to Water Detail	10/24/2023 10:53	22.32	ft
GC-AP-MW-60HO	ORP	Oxidation Reduction Potential	10/24/2023 10:53	296.96	mv
GC-AP-MW-60HO	PH	pH	10/24/2023 10:53	4.96	SU
GC-AP-MW-60HO	TEMP	Temperature	10/24/2023 10:53	18.73	C
GC-AP-MW-60HO	TURB	Turbidity	10/24/2023 10:53	4.78	NTU
GC-AP-MW-60HO	COND	Conductivity	10/24/2023 10:58	52.4	uS/cm
GC-AP-MW-60HO	DO	DO	10/24/2023 10:58	5.39	mg/L
GC-AP-MW-60HO	DTW	Depth to Water Detail	10/24/2023 10:58	22.32	ft
GC-AP-MW-60HO	ORP	Oxidation Reduction Potential	10/24/2023 10:58	294.96	mv
GC-AP-MW-60HO	PH	pH	10/24/2023 10:58	5.05	SU
GC-AP-MW-60HO	TEMP	Temperature	10/24/2023 10:58	18.72	C
GC-AP-MW-60HO	TURB	Turbidity	10/24/2023 10:58	4.69	NTU
GC-AP-MW-60HO	COND	Conductivity	10/24/2023 11:03	52.86	uS/cm
GC-AP-MW-60HO	DO	DO	10/24/2023 11:03	5.37	mg/L
GC-AP-MW-60HO	DTW	Depth to Water Detail	10/24/2023 11:03	22.32	ft
GC-AP-MW-60HO	ORP	Oxidation Reduction Potential	10/24/2023 11:03	295.14	mv
GC-AP-MW-60HO	PH	pH	10/24/2023 11:03	5.07	SU
GC-AP-MW-60HO	TEMP	Temperature	10/24/2023 11:03	18.73	C
GC-AP-MW-60HO	TURB	Turbidity	10/24/2023 11:03	4.6	NTU
GC-AP-MW-60HO	COND	Conductivity	10/24/2023 11:08	54.58	uS/cm
GC-AP-MW-60HO	DO	DO	10/24/2023 11:08	5.31	mg/L

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-60HO	DTW	Depth to Water Detail	10/24/2023 11:08	22.32	ft
GC-AP-MW-60HO	ORP	Oxidation Reduction Potential	10/24/2023 11:08	294.59	mv
GC-AP-MW-60HO	PH	pH	10/24/2023 11:08	5.14	SU
GC-AP-MW-60HO	SULFIDE	Sulfide	10/24/2023 11:08	0	mg/L
GC-AP-MW-60HO	TEMP	Temperature	10/24/2023 11:08	18.76	C
GC-AP-MW-60HO	TURB	Turbidity	10/24/2023 11:08	4.65	NTU
GC-AP-MW-61HO	COND	Conductivity	10/24/2023 11:42	75.4	uS/cm
GC-AP-MW-61HO	DO	DO	10/24/2023 11:42	6.57	mg/L
GC-AP-MW-61HO	DTW	Depth to Water Detail	10/24/2023 11:42	21.03	ft
GC-AP-MW-61HO	ORP	Oxidation Reduction Potential	10/24/2023 11:42	204.12	mv
GC-AP-MW-61HO	PH	pH	10/24/2023 11:42	5.79	SU
GC-AP-MW-61HO	TEMP	Temperature	10/24/2023 11:42	19.55	C
GC-AP-MW-61HO	TURB	Turbidity	10/24/2023 11:42	11.2	NTU
GC-AP-MW-61HO	COND	Conductivity	10/24/2023 11:47	87.27	uS/cm
GC-AP-MW-61HO	DO	DO	10/24/2023 11:47	6.14	mg/L
GC-AP-MW-61HO	DTW	Depth to Water Detail	10/24/2023 11:47	21.03	ft
GC-AP-MW-61HO	ORP	Oxidation Reduction Potential	10/24/2023 11:47	203.59	mv
GC-AP-MW-61HO	PH	pH	10/24/2023 11:47	5.92	SU
GC-AP-MW-61HO	TEMP	Temperature	10/24/2023 11:47	19.56	C
GC-AP-MW-61HO	TURB	Turbidity	10/24/2023 11:47	9.29	NTU
GC-AP-MW-61HO	COND	Conductivity	10/24/2023 11:52	93.05	uS/cm
GC-AP-MW-61HO	DO	DO	10/24/2023 11:52	5.9	mg/L
GC-AP-MW-61HO	DTW	Depth to Water Detail	10/24/2023 11:52	21.03	ft
GC-AP-MW-61HO	ORP	Oxidation Reduction Potential	10/24/2023 11:52	201.09	mv
GC-AP-MW-61HO	PH	pH	10/24/2023 11:52	5.96	SU
GC-AP-MW-61HO	TEMP	Temperature	10/24/2023 11:52	19.57	C
GC-AP-MW-61HO	TURB	Turbidity	10/24/2023 11:52	8.81	NTU
GC-AP-MW-61HO	COND	Conductivity	10/24/2023 11:57	94.37	uS/cm
GC-AP-MW-61HO	DO	DO	10/24/2023 11:57	5.85	mg/L
GC-AP-MW-61HO	DTW	Depth to Water Detail	10/24/2023 11:57	21.03	ft
GC-AP-MW-61HO	ORP	Oxidation Reduction Potential	10/24/2023 11:57	200.72	mv
GC-AP-MW-61HO	PH	pH	10/24/2023 11:57	5.95	SU
GC-AP-MW-61HO	TEMP	Temperature	10/24/2023 11:57	19.62	C
GC-AP-MW-61HO	TURB	Turbidity	10/24/2023 11:57	8.2	NTU
GC-AP-MW-61HO	COND	Conductivity	10/24/2023 12:02	97.08	uS/cm
GC-AP-MW-61HO	DO	DO	10/24/2023 12:02	5.65	mg/L
GC-AP-MW-61HO	DTW	Depth to Water Detail	10/24/2023 12:02	21.03	ft
GC-AP-MW-61HO	ORP	Oxidation Reduction Potential	10/24/2023 12:02	199.26	mv
GC-AP-MW-61HO	PH	pH	10/24/2023 12:02	5.98	SU
GC-AP-MW-61HO	SULFIDE	Sulfide	10/24/2023 12:02	0	mg/L
GC-AP-MW-61HO	TEMP	Temperature	10/24/2023 12:02	19.65	C
GC-AP-MW-61HO	TURB	Turbidity	10/24/2023 12:02	7.98	NTU
GC-AP-MW-62HO	COND	Conductivity	10/23/2023 13:58	52.28	uS/cm
GC-AP-MW-62HO	DO	DO	10/23/2023 13:58	6.75	mg/L
GC-AP-MW-62HO	DTW	Depth to Water Detail	10/23/2023 13:58	10.22	ft
GC-AP-MW-62HO	ORP	Oxidation Reduction Potential	10/23/2023 13:58	191.56	mv
GC-AP-MW-62HO	PH	pH	10/23/2023 13:58	5.27	SU
GC-AP-MW-62HO	TEMP	Temperature	10/23/2023 13:58	20.46	C
GC-AP-MW-62HO	TURB	Turbidity	10/23/2023 13:58	11.4	NTU
GC-AP-MW-62HO	COND	Conductivity	10/23/2023 14:03	68.13	uS/cm
GC-AP-MW-62HO	DO	DO	10/23/2023 14:03	6.38	mg/L
GC-AP-MW-62HO	DTW	Depth to Water Detail	10/23/2023 14:03	10.22	ft
GC-AP-MW-62HO	ORP	Oxidation Reduction Potential	10/23/2023 14:03	209.13	mv
GC-AP-MW-62HO	PH	pH	10/23/2023 14:03	5.35	SU
GC-AP-MW-62HO	TEMP	Temperature	10/23/2023 14:03	20.45	C
GC-AP-MW-62HO	TURB	Turbidity	10/23/2023 14:03	10.36	NTU
GC-AP-MW-62HO	COND	Conductivity	10/23/2023 14:08	76.95	uS/cm
GC-AP-MW-62HO	DO	DO	10/23/2023 14:08	6.11	mg/L
GC-AP-MW-62HO	DTW	Depth to Water Detail	10/23/2023 14:08	10.22	ft
GC-AP-MW-62HO	ORP	Oxidation Reduction Potential	10/23/2023 14:08	211.64	mv

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-62HO	PH	pH	10/23/2023 14:08	5.51	SU
GC-AP-MW-62HO	TEMP	Temperature	10/23/2023 14:08	20.42	C
GC-AP-MW-62HO	TURB	Turbidity	10/23/2023 14:08	7.86	NTU
GC-AP-MW-62HO	COND	Conductivity	10/23/2023 14:13	80.66	uS/cm
GC-AP-MW-62HO	DO	DO	10/23/2023 14:13	6.01	mg/L
GC-AP-MW-62HO	DTW	Depth to Water Detail	10/23/2023 14:13	10.22	ft
GC-AP-MW-62HO	ORP	Oxidation Reduction Potential	10/23/2023 14:13	212.5	mv
GC-AP-MW-62HO	PH	pH	10/23/2023 14:13	5.62	SU
GC-AP-MW-62HO	TEMP	Temperature	10/23/2023 14:13	20.39	C
GC-AP-MW-62HO	TURB	Turbidity	10/23/2023 14:13	5.11	NTU
GC-AP-MW-62HO	COND	Conductivity	10/23/2023 14:18	85.35	uS/cm
GC-AP-MW-62HO	DO	DO	10/23/2023 14:18	5.97	mg/L
GC-AP-MW-62HO	DTW	Depth to Water Detail	10/23/2023 14:18	10.22	ft
GC-AP-MW-62HO	ORP	Oxidation Reduction Potential	10/23/2023 14:18	214.19	mv
GC-AP-MW-62HO	PH	pH	10/23/2023 14:18	5.68	SU
GC-AP-MW-62HO	TEMP	Temperature	10/23/2023 14:18	20.37	C
GC-AP-MW-62HO	TURB	Turbidity	10/23/2023 14:18	4.32	NTU
GC-AP-MW-62HO	COND	Conductivity	10/23/2023 14:23	86.67	uS/cm
GC-AP-MW-62HO	DO	DO	10/23/2023 14:23	5.87	mg/L
GC-AP-MW-62HO	DTW	Depth to Water Detail	10/23/2023 14:23	10.22	ft
GC-AP-MW-62HO	ORP	Oxidation Reduction Potential	10/23/2023 14:23	215.38	mv
GC-AP-MW-62HO	PH	pH	10/23/2023 14:23	5.71	SU
GC-AP-MW-62HO	TEMP	Temperature	10/23/2023 14:23	20.36	C
GC-AP-MW-62HO	TURB	Turbidity	10/23/2023 14:23	4.08	NTU
GC-AP-MW-62HO	COND	Conductivity	10/23/2023 14:28	88.06	uS/cm
GC-AP-MW-62HO	DO	DO	10/23/2023 14:28	5.91	mg/L
GC-AP-MW-62HO	DTW	Depth to Water Detail	10/23/2023 14:28	10.22	ft
GC-AP-MW-62HO	ORP	Oxidation Reduction Potential	10/23/2023 14:28	218.52	mv
GC-AP-MW-62HO	PH	pH	10/23/2023 14:28	5.72	SU
GC-AP-MW-62HO	SULFIDE	Sulfide	10/23/2023 14:28	0	mg/L
GC-AP-MW-62HO	TEMP	Temperature	10/23/2023 14:28	20.38	C
GC-AP-MW-62HO	TURB	Turbidity	10/23/2023 14:28	4.16	NTU
GC-AP-MW-63HO	COND	Conductivity	10/23/2023 15:00	64.42	uS/cm
GC-AP-MW-63HO	DO	DO	10/23/2023 15:00	7.63	mg/L
GC-AP-MW-63HO	DTW	Depth to Water Detail	10/23/2023 15:00	11.62	ft
GC-AP-MW-63HO	ORP	Oxidation Reduction Potential	10/23/2023 15:00	318.68	mv
GC-AP-MW-63HO	PH	pH	10/23/2023 15:00	4.64	SU
GC-AP-MW-63HO	TEMP	Temperature	10/23/2023 15:00	19.67	C
GC-AP-MW-63HO	TURB	Turbidity	10/23/2023 15:00	5.95	NTU
GC-AP-MW-63HO	COND	Conductivity	10/23/2023 15:05	80.59	uS/cm
GC-AP-MW-63HO	DO	DO	10/23/2023 15:05	7.14	mg/L
GC-AP-MW-63HO	DTW	Depth to Water Detail	10/23/2023 15:05	11.62	ft
GC-AP-MW-63HO	ORP	Oxidation Reduction Potential	10/23/2023 15:05	297.58	mv
GC-AP-MW-63HO	PH	pH	10/23/2023 15:05	5.04	SU
GC-AP-MW-63HO	TEMP	Temperature	10/23/2023 15:05	19.7	C
GC-AP-MW-63HO	TURB	Turbidity	10/23/2023 15:05	4.43	NTU
GC-AP-MW-63HO	COND	Conductivity	10/23/2023 15:10	88.26	uS/cm
GC-AP-MW-63HO	DO	DO	10/23/2023 15:10	6.98	mg/L
GC-AP-MW-63HO	DTW	Depth to Water Detail	10/23/2023 15:10	11.62	ft
GC-AP-MW-63HO	ORP	Oxidation Reduction Potential	10/23/2023 15:10	286.21	mv
GC-AP-MW-63HO	PH	pH	10/23/2023 15:10	5.2	SU
GC-AP-MW-63HO	TEMP	Temperature	10/23/2023 15:10	19.68	C
GC-AP-MW-63HO	TURB	Turbidity	10/23/2023 15:10	4	NTU
GC-AP-MW-63HO	COND	Conductivity	10/23/2023 15:15	92.95	uS/cm
GC-AP-MW-63HO	DO	DO	10/23/2023 15:15	6.9	mg/L
GC-AP-MW-63HO	DTW	Depth to Water Detail	10/23/2023 15:15	11.62	ft
GC-AP-MW-63HO	ORP	Oxidation Reduction Potential	10/23/2023 15:15	282.18	mv
GC-AP-MW-63HO	PH	pH	10/23/2023 15:15	5.27	SU
GC-AP-MW-63HO	TEMP	Temperature	10/23/2023 15:15	19.71	C
GC-AP-MW-63HO	TURB	Turbidity	10/23/2023 15:15	3.82	NTU

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-63HO	COND	Conductivity	10/23/2023 15:20	87.45	uS/cm
GC-AP-MW-63HO	DO	DO	10/23/2023 15:20	7.01	mg/L
GC-AP-MW-63HO	DTW	Depth to Water Detail	10/23/2023 15:20	11.62	ft
GC-AP-MW-63HO	ORP	Oxidation Reduction Potential	10/23/2023 15:20	282.5	mv
GC-AP-MW-63HO	PH	pH	10/23/2023 15:20	5.25	SU
GC-AP-MW-63HO	TEMP	Temperature	10/23/2023 15:20	19.73	C
GC-AP-MW-63HO	TURB	Turbidity	10/23/2023 15:20	3.86	NTU
GC-AP-MW-63HO	COND	Conductivity	10/23/2023 15:25	82.38	uS/cm
GC-AP-MW-63HO	DO	DO	10/23/2023 15:25	7.04	mg/L
GC-AP-MW-63HO	DTW	Depth to Water Detail	10/23/2023 15:25	11.62	ft
GC-AP-MW-63HO	ORP	Oxidation Reduction Potential	10/23/2023 15:25	281.63	mv
GC-AP-MW-63HO	PH	pH	10/23/2023 15:25	5.26	SU
GC-AP-MW-63HO	TEMP	Temperature	10/23/2023 15:25	19.71	C
GC-AP-MW-63HO	TURB	Turbidity	10/23/2023 15:25	3.71	NTU
GC-AP-MW-63HO	COND	Conductivity	10/23/2023 15:30	86.68	uS/cm
GC-AP-MW-63HO	DO	DO	10/23/2023 15:30	7.05	mg/L
GC-AP-MW-63HO	DTW	Depth to Water Detail	10/23/2023 15:30	11.62	ft
GC-AP-MW-63HO	ORP	Oxidation Reduction Potential	10/23/2023 15:30	280.47	mv
GC-AP-MW-63HO	PH	pH	10/23/2023 15:30	5.27	SU
GC-AP-MW-63HO	TEMP	Temperature	10/23/2023 15:30	19.74	C
GC-AP-MW-63HO	TURB	Turbidity	10/23/2023 15:30	3.51	NTU
GC-AP-MW-63HO	COND	Conductivity	10/23/2023 15:35	81.43	uS/cm
GC-AP-MW-63HO	DO	DO	10/23/2023 15:35	7.03	mg/L
GC-AP-MW-63HO	DTW	Depth to Water Detail	10/23/2023 15:35	11.62	ft
GC-AP-MW-63HO	ORP	Oxidation Reduction Potential	10/23/2023 15:35	279.27	mv
GC-AP-MW-63HO	PH	pH	10/23/2023 15:35	5.27	SU
GC-AP-MW-63HO	TEMP	Temperature	10/23/2023 15:35	19.69	C
GC-AP-MW-63HO	TURB	Turbidity	10/23/2023 15:35	3.55	NTU
GC-AP-MW-63HO	COND	Conductivity	10/23/2023 15:40	87.83	uS/cm
GC-AP-MW-63HO	DO	DO	10/23/2023 15:40	7.01	mg/L
GC-AP-MW-63HO	DTW	Depth to Water Detail	10/23/2023 15:40	11.62	ft
GC-AP-MW-63HO	ORP	Oxidation Reduction Potential	10/23/2023 15:40	277.17	mv
GC-AP-MW-63HO	PH	pH	10/23/2023 15:40	5.3	SU
GC-AP-MW-63HO	TEMP	Temperature	10/23/2023 15:40	19.66	C
GC-AP-MW-63HO	TURB	Turbidity	10/23/2023 15:40	3.64	NTU
GC-AP-MW-63HO	COND	Conductivity	10/23/2023 15:45	83.48	uS/cm
GC-AP-MW-63HO	DO	DO	10/23/2023 15:45	7.11	mg/L
GC-AP-MW-63HO	DTW	Depth to Water Detail	10/23/2023 15:45	11.62	ft
GC-AP-MW-63HO	ORP	Oxidation Reduction Potential	10/23/2023 15:45	271.53	mv
GC-AP-MW-63HO	PH	pH	10/23/2023 15:45	5.34	SU
GC-AP-MW-63HO	TEMP	Temperature	10/23/2023 15:45	19.66	C
GC-AP-MW-63HO	TURB	Turbidity	10/23/2023 15:45	3.58	NTU
GC-AP-MW-63HO	COND	Conductivity	10/23/2023 15:50	88.88	uS/cm
GC-AP-MW-63HO	DO	DO	10/23/2023 15:50	7	mg/L
GC-AP-MW-63HO	DTW	Depth to Water Detail	10/23/2023 15:50	11.62	ft
GC-AP-MW-63HO	ORP	Oxidation Reduction Potential	10/23/2023 15:50	264.18	mv
GC-AP-MW-63HO	PH	pH	10/23/2023 15:50	5.46	SU
GC-AP-MW-63HO	TEMP	Temperature	10/23/2023 15:50	19.68	C
GC-AP-MW-63HO	TURB	Turbidity	10/23/2023 15:50	3.52	NTU
GC-AP-MW-63HO	COND	Conductivity	10/23/2023 15:55	89.04	uS/cm
GC-AP-MW-63HO	DO	DO	10/23/2023 15:55	6.96	mg/L
GC-AP-MW-63HO	DTW	Depth to Water Detail	10/23/2023 15:55	11.62	ft
GC-AP-MW-63HO	ORP	Oxidation Reduction Potential	10/23/2023 15:55	263.17	mv
GC-AP-MW-63HO	PH	pH	10/23/2023 15:55	5.48	SU
GC-AP-MW-63HO	TEMP	Temperature	10/23/2023 15:55	19.69	C
GC-AP-MW-63HO	TURB	Turbidity	10/23/2023 15:55	3.29	NTU
GC-AP-MW-63HO	COND	Conductivity	10/23/2023 16:00	87.13	uS/cm
GC-AP-MW-63HO	DO	DO	10/23/2023 16:00	7.03	mg/L
GC-AP-MW-63HO	DTW	Depth to Water Detail	10/23/2023 16:00	11.62	ft
GC-AP-MW-63HO	ORP	Oxidation Reduction Potential	10/23/2023 16:00	262.4	mv



**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-63HO	PH	pH	10/23/2023 16:00	5.47	SU
GC-AP-MW-63HO	SULFIDE	Sulfide	10/23/2023 16:00	0	mg/L
GC-AP-MW-63HO	TEMP	Temperature	10/23/2023 16:00	19.68	C
GC-AP-MW-63HO	TURB	Turbidity	10/23/2023 16:00	3.32	NTU
GC-AP-MW-46HO	COND	Conductivity	10/18/2023 11:51	457.48	uS/cm
GC-AP-MW-46HO	DO	DO	10/18/2023 11:51	0.11	mg/L
GC-AP-MW-46HO	DTW	Depth to Water Detail	10/18/2023 11:51	17.03	ft
GC-AP-MW-46HO	ORP	Oxidation Reduction Potential	10/18/2023 11:51	48.47	mv
GC-AP-MW-46HO	PH	pH	10/18/2023 11:51	6.71	SU
GC-AP-MW-46HO	TEMP	Temperature	10/18/2023 11:51	20.53	C
GC-AP-MW-46HO	TURB	Turbidity	10/18/2023 11:51	2.68	NTU
GC-AP-MW-46HO	COND	Conductivity	10/18/2023 11:56	452.37	uS/cm
GC-AP-MW-46HO	DO	DO	10/18/2023 11:56	0.14	mg/L
GC-AP-MW-46HO	DTW	Depth to Water Detail	10/18/2023 11:56	17.03	ft
GC-AP-MW-46HO	ORP	Oxidation Reduction Potential	10/18/2023 11:56	47.78	mv
GC-AP-MW-46HO	PH	pH	10/18/2023 11:56	6.71	SU
GC-AP-MW-46HO	TEMP	Temperature	10/18/2023 11:56	20.53	C
GC-AP-MW-46HO	TURB	Turbidity	10/18/2023 11:56	2.43	NTU
GC-AP-MW-46HO	COND	Conductivity	10/18/2023 12:01	451.99	uS/cm
GC-AP-MW-46HO	DO	DO	10/18/2023 12:01	0.15	mg/L
GC-AP-MW-46HO	DTW	Depth to Water Detail	10/18/2023 12:01	17.03	ft
GC-AP-MW-46HO	ORP	Oxidation Reduction Potential	10/18/2023 12:01	41.56	mv
GC-AP-MW-46HO	PH	pH	10/18/2023 12:01	6.72	SU
GC-AP-MW-46HO	TEMP	Temperature	10/18/2023 12:01	20.52	C
GC-AP-MW-46HO	TURB	Turbidity	10/18/2023 12:01	1.36	NTU
GC-AP-MW-46HO	COND	Conductivity	10/18/2023 12:06	454.23	uS/cm
GC-AP-MW-46HO	DO	DO	10/18/2023 12:06	0.15	mg/L
GC-AP-MW-46HO	DTW	Depth to Water Detail	10/18/2023 12:06	17.03	ft
GC-AP-MW-46HO	ORP	Oxidation Reduction Potential	10/18/2023 12:06	38.99	mv
GC-AP-MW-46HO	PH	pH	10/18/2023 12:06	6.72	SU
GC-AP-MW-46HO	SULFIDE	Sulfide	10/18/2023 12:06	0	mg/L
GC-AP-MW-46HO	TEMP	Temperature	10/18/2023 12:06	20.5	C
GC-AP-MW-46HO	TURB	Turbidity	10/18/2023 12:06	1.33	NTU
GC-AP-MW-64HO	COND	Conductivity	10/18/2023 10:26	501.33	uS/cm
GC-AP-MW-64HO	DO	DO	10/18/2023 10:26	0.07	mg/L
GC-AP-MW-64HO	DTW	Depth to Water Detail	10/18/2023 10:26	21.25	ft
GC-AP-MW-64HO	ORP	Oxidation Reduction Potential	10/18/2023 10:26	102.37	mv
GC-AP-MW-64HO	PH	pH	10/18/2023 10:26	6.95	SU
GC-AP-MW-64HO	TEMP	Temperature	10/18/2023 10:26	19.66	C
GC-AP-MW-64HO	TURB	Turbidity	10/18/2023 10:26	4.04	NTU
GC-AP-MW-64HO	COND	Conductivity	10/18/2023 10:30	500.66	uS/cm
GC-AP-MW-64HO	DO	DO	10/18/2023 10:30	0.06	mg/L
GC-AP-MW-64HO	DTW	Depth to Water Detail	10/18/2023 10:30	21.25	ft
GC-AP-MW-64HO	ORP	Oxidation Reduction Potential	10/18/2023 10:30	91.3	mv
GC-AP-MW-64HO	PH	pH	10/18/2023 10:30	6.95	SU
GC-AP-MW-64HO	TEMP	Temperature	10/18/2023 10:30	19.67	C
GC-AP-MW-64HO	TURB	Turbidity	10/18/2023 10:30	3.49	NTU
GC-AP-MW-64HO	COND	Conductivity	10/18/2023 10:35	500.56	uS/cm
GC-AP-MW-64HO	DO	DO	10/18/2023 10:35	0.06	mg/L
GC-AP-MW-64HO	DTW	Depth to Water Detail	10/18/2023 10:35	21.25	ft
GC-AP-MW-64HO	ORP	Oxidation Reduction Potential	10/18/2023 10:35	83.23	mv
GC-AP-MW-64HO	PH	pH	10/18/2023 10:35	6.99	SU
GC-AP-MW-64HO	TEMP	Temperature	10/18/2023 10:35	19.68	C
GC-AP-MW-64HO	TURB	Turbidity	10/18/2023 10:35	2.21	NTU
GC-AP-MW-64HO	COND	Conductivity	10/18/2023 10:40	500.26	uS/cm
GC-AP-MW-64HO	DO	DO	10/18/2023 10:40	0.05	mg/L
GC-AP-MW-64HO	DTW	Depth to Water Detail	10/18/2023 10:40	21.25	ft
GC-AP-MW-64HO	ORP	Oxidation Reduction Potential	10/18/2023 10:40	79.58	mv
GC-AP-MW-64HO	PH	pH	10/18/2023 10:40	6.99	SU
GC-AP-MW-64HO	TEMP	Temperature	10/18/2023 10:40	19.65	C

**Field Parameter Summary  
Greene County Ash Pond**

WELL ID	PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
GC-AP-MW-64HO	TURB	Turbidity	10/18/2023 10:40	2.17	NTU
GC-AP-MW-64HO	COND	Conductivity	10/18/2023 10:45	499.81	uS/cm
GC-AP-MW-64HO	DO	DO	10/18/2023 10:45	0.05	mg/L
GC-AP-MW-64HO	DTW	Depth to Water Detail	10/18/2023 10:45	21.25	ft
GC-AP-MW-64HO	ORP	Oxidation Reduction Potential	10/18/2023 10:45	77.02	mv
GC-AP-MW-64HO	PH	pH	10/18/2023 10:45	7	SU
GC-AP-MW-64HO	SULFIDE	Sulfide	10/18/2023 10:45	0	mg/L
GC-AP-MW-64HO	TEMP	Temperature	10/18/2023 10:45	19.55	C
GC-AP-MW-64HO	TURB	Turbidity	10/18/2023 10:45	1.41	NTU
GC-AP-MW-52HO	COND	Conductivity	10/18/2023 13:26	879.23	uS/cm
GC-AP-MW-52HO	DO	DO	10/18/2023 13:26	0.06	mg/L
GC-AP-MW-52HO	DTW	Depth to Water Detail	10/18/2023 13:26	10.84	ft
GC-AP-MW-52HO	ORP	Oxidation Reduction Potential	10/18/2023 13:26	-101.12	mv
GC-AP-MW-52HO	PH	pH	10/18/2023 13:26	6.01	SU
GC-AP-MW-52HO	TEMP	Temperature	10/18/2023 13:26	19.55	C
GC-AP-MW-52HO	TURB	Turbidity	10/18/2023 13:26	2.36	NTU
GC-AP-MW-52HO	COND	Conductivity	10/18/2023 13:31	912.26	uS/cm
GC-AP-MW-52HO	DO	DO	10/18/2023 13:31	0.05	mg/L
GC-AP-MW-52HO	DTW	Depth to Water Detail	10/18/2023 13:31	10.84	ft
GC-AP-MW-52HO	ORP	Oxidation Reduction Potential	10/18/2023 13:31	-102.45	mv
GC-AP-MW-52HO	PH	pH	10/18/2023 13:31	6.09	SU
GC-AP-MW-52HO	TEMP	Temperature	10/18/2023 13:31	19.63	C
GC-AP-MW-52HO	TURB	Turbidity	10/18/2023 13:31	2.15	NTU
GC-AP-MW-52HO	COND	Conductivity	10/18/2023 13:36	913.19	uS/cm
GC-AP-MW-52HO	DO	DO	10/18/2023 13:36	0.05	mg/L
GC-AP-MW-52HO	DTW	Depth to Water Detail	10/18/2023 13:36	10.84	ft
GC-AP-MW-52HO	ORP	Oxidation Reduction Potential	10/18/2023 13:36	-90.77	mv
GC-AP-MW-52HO	PH	pH	10/18/2023 13:36	6.14	SU
GC-AP-MW-52HO	TEMP	Temperature	10/18/2023 13:36	19.69	C
GC-AP-MW-52HO	TURB	Turbidity	10/18/2023 13:36	1.45	NTU
GC-AP-MW-52HO	COND	Conductivity	10/18/2023 13:41	918.83	uS/cm
GC-AP-MW-52HO	DO	DO	10/18/2023 13:41	0.05	mg/L
GC-AP-MW-52HO	DTW	Depth to Water Detail	10/18/2023 13:41	10.84	ft
GC-AP-MW-52HO	ORP	Oxidation Reduction Potential	10/18/2023 13:41	-83.75	mv
GC-AP-MW-52HO	PH	pH	10/18/2023 13:41	6.16	SU
GC-AP-MW-52HO	SULFIDE	Sulfide	10/18/2023 13:41	0	mg/L
GC-AP-MW-52HO	TEMP	Temperature	10/18/2023 13:41	19.71	C
GC-AP-MW-52HO	TURB	Turbidity	10/18/2023 13:41	1.2	NTU

Alabama Power  
General Test Laboratory  
744 County Road 87, GSC #8  
Calera, AL 35040  
205-664-6001

# *Analytical Report*



**Sample Group :** WMWGREAP\_1430

**Project/Site :** Greene County Ash Pond  
Demopolis, AL 36732

**For :** Southern Company Services  
3535 Colonnade Parkway  
Birmingham, AL 35243

**Attention :** Dustin Brooks & Greg Budd

**Released By :** Brooke Caton  
tbwill@southernco.com  
(205) 664-6101

December 06, 2023

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between October 25, 2023 and November 02, 2023. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114  
Issued By: State of Florida, Department of Health  
Expiration: June 30, 2024

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Quality Control: **Brooke  
Caton**

Digitally signed by Brooke  
Caton  
Date: 2023.12.07  
10:25:58 -06'00'

Supervision: **T Durant  
Maske**

Digitally signed by T Durant Maske  
DN: cn=T Durant Maske, gn=T Durant Maske, c=US  
United States, +US United States  
e=tdmaske@southernco.com  
Reason: I am the author of this document  
Location:  
Date: 2023-12-08 07:29:06:00



### REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.  
This document shall not be reproduced, except in full, without written consent from  
Alabama Power's General Test Laboratory.



# Case Narrative

Total Metals ICP

Greene Co. Ash Pond

WMWGREAP\_1430

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19582	769786	WMWGREAP_1430
BD19583	769786	WMWGREAP_1430
BD19584	769786, 770807	WMWGREAP_1430
BD19585	769786	WMWGREAP_1430
BD19586	769786	WMWGREAP_1430
BD19587	769786	WMWGREAP_1430
BD19588	769786	WMWGREAP_1430
BD19589	769786, 770807	WMWGREAP_1430
BD19590	769786	WMWGREAP_1430
BD19591	769786	WMWGREAP_1430
BD19592	769787, 770807	WMWGREAP_1430
BD19593	769787	WMWGREAP_1430
BD19594	769787	WMWGREAP_1430
BD19595	769787, 770807	WMWGREAP_1430
BD19596	769787, 770807	WMWGREAP_1430
BD19597	769787, 770807	WMWGREAP_1430
BD19598	769787, 770807	WMWGREAP_1430
BD19599	769787, 770807	WMWGREAP_1430
BD19600	769787, 770807	WMWGREAP_1430
BD19601	769787	WMWGREAP_1430
BD19602	769788	WMWGREAP_1430
BD19603	769788	WMWGREAP_1430
BD19758	770079	WMWGREAP_1430
BD19759	770079	WMWGREAP_1430
BD19760	770079	WMWGREAP_1430
BD19761	770079	WMWGREAP_1430
BD19762	770079	WMWGREAP_1430
BD19763	770079	WMWGREAP_1430
BD19764	770079	WMWGREAP_1430
BD19765	770079	WMWGREAP_1430
BD19766	770079	WMWGREAP_1430
BD19767	770079	WMWGREAP_1430

BD19768	770080	WMWGREAP_1430
BD19769	770080	WMWGREAP_1430
BD19770	770080	WMWGREAP_1430
BD19771	770080	WMWGREAP_1430
BD19772	770080	WMWGREAP_1430
BD19773	770080	WMWGREAP_1430
BD19774	770080	WMWGREAP_1430
BD19775	770080	WMWGREAP_1430
BD19776	770080	WMWGREAP_1430
BD20089	770981	WMWGREAP_1430
BD20090	770981	WMWGREAP_1430
BD20091	770981	WMWGREAP_1430
BD20092	770981	WMWGREAP_1430
BD20093	770981	WMWGREAP_1430
BD20094	770981	WMWGREAP_1430
BD20095	770981	WMWGREAP_1430
BD20096	770981	WMWGREAP_1430
BD20097	770981	WMWGREAP_1430
BD20098	770981	WMWGREAP_1430
BD20099	770982	WMWGREAP_1430
BD20100	770982	WMWGREAP_1430
BD20101	770982	WMWGREAP_1430
BD20102	770982	WMWGREAP_1430
BD20103	770982	WMWGREAP_1430
BD20104	770982	WMWGREAP_1430
BD20105	770982	WMWGREAP_1430

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.

## Case Narrative

- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes, except for the following:
  - BD19582, BD19583, BD19585, BD19586, BD19587, BD19588, BD19590, BD19591, BD19593, BD19594, and BD19601 Iron detected in reagent blank is < 10% of the sample concentration.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed, and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
    - BD19591 Calcium, Iron, & Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
    - BD20098 Iron MS/MSD spike levels were less than 30% of the sample concentrations.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19582	Calcium	10.15
BD19582	Iron	101.5
BD19583	Calcium	10.15
BD19583	Iron	101.5
BD19585	Calcium	10.15
BD19585	Iron	101.5
BD19586	Calcium	10.15
BD19586	Iron	101.5
BD19587	Calcium	10.15
BD19587	Iron	101.5
BD19588	Calcium	10.15
BD19588	Iron	101.5
BD19590	Calcium, Iron	10.15
BD19591	Calcium, Iron, Sodium	10.15

## Case Narrative

BD19592	Calcium	10.15
BD19593	Calcium, Sodium	10.15
BD19593	Iron	101.5
BD19594	Calcium, Sodium	10.15
BD19594	Iron	101.5
BD19600	Calcium	10.15
BD19601	Calcium	10.15
BD19602	Calcium	10.15
BD19758	Calcium, Sodium	10.15
BD19759	Calcium, Sodium	10.15
BD19760	Calcium, Sodium	10.15
BD19761	Calcium, Iron, Sodium	10.15
BD19762	Calcium	10.15
BD19764	Calcium, Iron, Sodium	10.15
BD19765	Calcium, Iron	10.15
BD19771	Calcium	10.15
BD19771	Iron	101.5
BD19772	Calcium, Iron	10.15
BD19775	Sodium	10.15
BD20093	Calcium, Iron	10.15
BD20094	Calcium	10.15
BD20094	Iron	101.5
BD20095	Calcium	10.15
BD20095	Iron	101.5
BD20096	Iron	10.15
BD20097	Calcium	10.15
BD20098	Calcium, Iron	10.15
BD20099	Calcium, Iron	10.15
BD20100	Calcium, Iron	10.15
BD20101	Calcium, Iron	10.15
BD20102	Calcium	10.15
BD20102	Iron	101.5

8. The raw data results are shown with dilution factors included.



## Case Narrative

Dissolved Metals ICP

Greene Co. Ash Pond

WMWGREAP\_1430

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19582	769715	WMWGREAP_1430
BD19583	769715	WMWGREAP_1430
BD19585	769715	WMWGREAP_1430
BD19586	769715	WMWGREAP_1430
BD19587	769715	WMWGREAP_1430
BD19588	769715	WMWGREAP_1430
BD19590	769715	WMWGREAP_1430
BD19591	769715	WMWGREAP_1430
BD19592	769715	WMWGREAP_1430
BD19593	769715	WMWGREAP_1430
BD19594	769716	WMWGREAP_1430
BD19595	769716	WMWGREAP_1430
BD19596	769716	WMWGREAP_1430
BD19597	769716	WMWGREAP_1430
BD19598	769716	WMWGREAP_1430
BD19599	769716	WMWGREAP_1430
BD19600	769716	WMWGREAP_1430
BD19601	769716	WMWGREAP_1430
BD19602	769716	WMWGREAP_1430
BD19758	770085	WMWGREAP_1430
BD19759	770085	WMWGREAP_1430
BD19760	770085	WMWGREAP_1430
BD19761	770085	WMWGREAP_1430
BD19762	770085	WMWGREAP_1430
BD19763	770085	WMWGREAP_1430
BD19764	770085	WMWGREAP_1430
BD19765	770085	WMWGREAP_1430
BD19766	770085	WMWGREAP_1430
BD19767	770085	WMWGREAP_1430
BD19768	770086	WMWGREAP_1430
BD19769	770086	WMWGREAP_1430
BD19770	770086	WMWGREAP_1430

BD19771	770086	WMWGREAP_1430
BD19772	770086	WMWGREAP_1430
BD19773	770086	WMWGREAP_1430
BD19774	770086	WMWGREAP_1430
BD19775	770086	WMWGREAP_1430
BD20089	770840	WMWGREAP_1430
BD20090	770840	WMWGREAP_1430
BD20091	770840	WMWGREAP_1430
BD20093	770840	WMWGREAP_1430
BD20094	770840	WMWGREAP_1430
BD20095	770840	WMWGREAP_1430
BD20096	770840	WMWGREAP_1430
BD20097	770840	WMWGREAP_1430
BD20098	770840	WMWGREAP_1430
BD20099	770840	WMWGREAP_1430
BD20100	770841	WMWGREAP_1430
BD20101	770841	WMWGREAP_1430
BD20102	770841	WMWGREAP_1430
BD20103	770841	WMWGREAP_1430
BD20104	770841	WMWGREAP_1430

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any

qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

**Matrix Specific Quality Control Procedures:**

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
    - BD19593 Calcium, Iron, & Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
    - BD19602 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
    - BD19775 Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
    - BD20099 Calcium & Iron MS/MSD spike levels were less than 30% of the sample concentrations.
    - BD20104 Magnesium MS and/or MSD recovery is outside of specification limit.
  - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met, except for the following:
    - BD20104 Magnesium Precision is out of specification limit.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19582	Calcium	10.15
BD19582	Iron	101.5
BD19583	Calcium	10.15
BD19583	Iron	101.5
BD19585	Calcium	10.15
BD19585	Iron	101.5
BD19586	Calcium	10.15
BD19586	Iron	101.5
BD19587	Calcium	10.15
BD19587	Iron	101.5
BD19588	Calcium	10.15
BD19588	Iron	101.5
BD19590	Calcium, Iron	10.15
BD19591	Calcium, Iron, Sodium	10.15
BD19592	Calcium	10.15
BD19593	Calcium, Sodium	10.15
BD19593	Iron	101.5
BD19594	Calcium, Iron, Sodium	10.15
BD19600	Calcium	10.15
BD19601	Calcium	10.15
BD19602	Calcium	10.15
BD19758	Calcium, Sodium	10.15
BD19759	Calcium, Sodium	10.15

## Case Narrative

BD19760	Calcium, Sodium	10.15
BD19761	Calcium, Iron, Sodium	10.15
BD19762	Calcium	10.15
BD19764	Calcium, Iron, Sodium	10.15
BD19765	Calcium, Iron	10.15
BD19771	Calcium	10.15
BD19771	Iron	101.5
BD19772	Calcium, Iron	10.15
BD19775	Sodium	10.15
BD20093	Calcium, Iron	10.15
BD20094	Calcium	10.15
BD20094	Iron	101.5
BD20095	Calcium	10.15
BD20095	Iron	101.5
BD20096	Iron	10.15
BD20097	Calcium	10.15
BD20098	Calcium, Iron	10.15
BD20099	Calcium, Iron	10.15
BD20100	Calcium, Iron	10.15
BD20101	Calcium, Iron	10.15
BD20102	Calcium	10.15
BD20102	Iron	101.5

8. The raw data results are shown with dilution factors included.

# Case Narrative

Total Metals ICPMS

Greene Co. Ash Pond

WMWGREAP\_1430

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19582	770631	WMWGREAP_1430
BD19583	770631	WMWGREAP_1430
BD19584	770631, 770927	WMWGREAP_1430
BD19585	770631	WMWGREAP_1430
BD19586	770631	WMWGREAP_1430
BD19587	770631	WMWGREAP_1430
BD19588	770631	WMWGREAP_1430
BD19589	770631, 770927	WMWGREAP_1430
BD19590	770631	WMWGREAP_1430
BD19591	770631	WMWGREAP_1430
BD19592	770632	WMWGREAP_1430
BD19593	770632	WMWGREAP_1430
BD19594	770632	WMWGREAP_1430
BD19595	770632	WMWGREAP_1430
BD19596	770632	WMWGREAP_1430
BD19597	770632	WMWGREAP_1430
BD19598	770632	WMWGREAP_1430
BD19599	770632, 770927	WMWGREAP_1430
BD19600	770632	WMWGREAP_1430
BD19601	770632	WMWGREAP_1430
BD19602	770633	WMWGREAP_1430
BD19603	770633	WMWGREAP_1430
BD19758	770563	WMWGREAP_1430
BD19759	770563	WMWGREAP_1430
BD19760	770563	WMWGREAP_1430
BD19761	770563	WMWGREAP_1430
BD19762	770563	WMWGREAP_1430
BD19763	770563	WMWGREAP_1430
BD19764	770563	WMWGREAP_1430
BD19765	770563	WMWGREAP_1430
BD19766	770563	WMWGREAP_1430
BD19767	770563	WMWGREAP_1430

BD19768	770564	WMWGREAP_1430
BD19769	770564	WMWGREAP_1430
BD19770	770564	WMWGREAP_1430
BD19771	770564	WMWGREAP_1430
BD19772	770564	WMWGREAP_1430
BD19773	770564	WMWGREAP_1430
BD19774	770564	WMWGREAP_1430
BD19775	770564	WMWGREAP_1430
BD19776	770564	WMWGREAP_1430
BD20089	771337	WMWGREAP_1430
BD20090	771337	WMWGREAP_1430
BD20091	771337	WMWGREAP_1430
BD20092	771337	WMWGREAP_1430
BD20093	771337	WMWGREAP_1430
BD20094	771337	WMWGREAP_1430
BD20095	771337	WMWGREAP_1430
BD20096	771337	WMWGREAP_1430
BD20097	771337	WMWGREAP_1430
BD20098	771337	WMWGREAP_1430
BD20099	771338	WMWGREAP_1430
BD20100	771338	WMWGREAP_1430
BD20101	771338	WMWGREAP_1430
BD20102	771338	WMWGREAP_1430
BD20103	771338	WMWGREAP_1430
BD20104	771338	WMWGREAP_1430
BD20105	771338	WMWGREAP_1430

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.

## Case Narrative

- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes, except for the following:
  - BD19582, BD19583, BD19585, BD19586, BD19587, BD19588, BD19590, BD19591, BD19592, BD19593, BD19594, BD19595, BD19596, BD19597, BD19598, BD19600, and BD19601 Manganese detected in reagent blank is < 10% of the sample concentration.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
    - BD19601 Manganese MS/MSD spike levels were less than 30% of the sample concentrations.
    - BD20098 Manganese MS/MSD spike levels were less than 30% of the sample concentrations.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19582	Manganese	92.365
BD19583	Manganese	92.365
BD19585	Manganese	10.15
BD19587	Manganese	10.15
BD19588	Manganese	10.15
BD19590	Manganese	5.075
BD19591	Manganese	5.075
BD19593	Manganese	5.075
BD19594	Manganese	5.075
BD19600	Manganese	5.075
BD19601	Manganese	5.075
BD19602	Manganese	5.075
BD19761	Manganese	10.15
BD19762	Manganese	10.15

## Case Narrative

BD19764	Manganese	10.15
BD19765	Manganese	5.075
BD19766	Manganese	5.075
BD19769	Manganese	5.075
BD19771	Manganese	5.075
BD19772	Manganese	5.075
BD20093	Manganese	10.15
BD20094	Manganese	5.075
BD20095	Manganese	5.075
BD20096	Manganese	5.075
BD20097	Manganese	5.075
BD20098	Manganese	5.075
BD20099	Manganese	5.075
BD20100	Manganese	5.075
BD20101	Manganese	5.075
BD20102	Manganese	5.075

8. The raw data results are shown with dilution factors included.



Dissolved Metals ICPMS

Greene Co. Ash Pond

WMWGREAP\_1430

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19582	770450	WMWGREAP_1430
BD19583	770450	WMWGREAP_1430
BD19585	770450	WMWGREAP_1430
BD19586	770450	WMWGREAP_1430
BD19587	770450	WMWGREAP_1430
BD19588	770450	WMWGREAP_1430
BD19590	770450	WMWGREAP_1430
BD19591	770450	WMWGREAP_1430
BD19592	770450	WMWGREAP_1430
BD19593	770450	WMWGREAP_1430
BD19594	770451	WMWGREAP_1430
BD19595	770451	WMWGREAP_1430
BD19596	770451	WMWGREAP_1430
BD19597	770451	WMWGREAP_1430
BD19598	770451	WMWGREAP_1430
BD19599	770451	WMWGREAP_1430
BD19600	770451	WMWGREAP_1430
BD19601	770451	WMWGREAP_1430
BD19602	770451	WMWGREAP_1430
BD19603	769788	WMWGREAP_1430
BD19758	770567	WMWGREAP_1430
BD19759	770567	WMWGREAP_1430
BD19760	770567	WMWGREAP_1430
BD19761	770567	WMWGREAP_1430
BD19762	770567	WMWGREAP_1430
BD19763	770567	WMWGREAP_1430
BD19764	770567	WMWGREAP_1430
BD19765	770567	WMWGREAP_1430
BD19766	770567	WMWGREAP_1430
BD19767	770567	WMWGREAP_1430
BD19768	770568	WMWGREAP_1430
BD19769	770568	WMWGREAP_1430

BD19770	770568	WMWGREAP_1430
BD19771	770568	WMWGREAP_1430
BD19772	770568	WMWGREAP_1430
BD19773	770568	WMWGREAP_1430
BD19774	770568	WMWGREAP_1430
BD19775	770568	WMWGREAP_1430
BD20089	771283	WMWGREAP_1430
BD20090	771283	WMWGREAP_1430
BD20091	771283	WMWGREAP_1430
BD20093	771283	WMWGREAP_1430
BD20094	771283	WMWGREAP_1430
BD20095	771283	WMWGREAP_1430
BD20096	771283	WMWGREAP_1430
BD20097	771283	WMWGREAP_1430
BD20098	771283	WMWGREAP_1430
BD20099	771283	WMWGREAP_1430
BD20100	771284	WMWGREAP_1430
BD20101	771284	WMWGREAP_1430
BD20102	771284	WMWGREAP_1430
BD20103	771284	WMWGREAP_1430
BD20104	771284	WMWGREAP_1430

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.

- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
    - BD19593 Manganese MS/MSD spike levels were less than 30% of the sample concentrations.
    - BD19602 Manganese MS/MSD spike levels were less than 30% of the sample concentrations.
  - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19582	Manganese	92.365
BD19583	Manganese	92.365
BD19585	Manganese	10.15
BD19587	Manganese	10.15
BD19588	Manganese	10.15
BD19590	Manganese	5.075
BD19591	Manganese	5.075
BD19593	Manganese	5.075
BD19594	Manganese	5.075
BD19600	Manganese	5.075
BD19601	Manganese	5.075
BD19602	Manganese	5.075
BD19760	Manganese	5.075
BD19761	Manganese	10.15
BD19762	Manganese	10.15
BD19764	Manganese	10.15
BD19765	Manganese	5.075
BD19766	Manganese	5.075
BD19769	Manganese	5.075
BD19771	Manganese	5.075
BD19772	Manganese	5.075
BD20093	Manganese	10.15
BD20094	Manganese	5.075

## Case Narrative

BD20095	Manganese	5.075
BD20096	Manganese	5.075
BD20097	Manganese	5.075
BD20098	Manganese	5.075
BD20099	Manganese	5.075
BD20100	Manganese	5.075
BD20101	Manganese	5.075
BD20102	Manganese	5.075

8. The raw data results are shown with dilution factors included.

# Case Narrative

Mercury

Greene Co. Ash Pond

WMWGREAP\_1430

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19582	769668	WMWGREAP_1430
BD19583	769668	WMWGREAP_1430
BD19584	769668	WMWGREAP_1430
BD19585	769668	WMWGREAP_1430
BD19586	769668	WMWGREAP_1430
BD19587	769669	WMWGREAP_1430
BD19588	769669	WMWGREAP_1430
BD19589	769669	WMWGREAP_1430
BD19590	769669	WMWGREAP_1430
BD19591	769669	WMWGREAP_1430
BD19592	769669	WMWGREAP_1430
BD19593	769669	WMWGREAP_1430
BD19594	769669	WMWGREAP_1430
BD19595	769669	WMWGREAP_1430
BD19596	769669	WMWGREAP_1430
BD19597	770154	WMWGREAP_1430
BD19598	770154	WMWGREAP_1430
BD19599	770154	WMWGREAP_1430
BD19600	770154	WMWGREAP_1430
BD19601	770154	WMWGREAP_1430
BD19602	770154	WMWGREAP_1430
BD19603	770154	WMWGREAP_1430
BD19758	770154	WMWGREAP_1430
BD19759	770154	WMWGREAP_1430
BD19760	770154	WMWGREAP_1430
BD19761	770155	WMWGREAP_1430
BD19762	770155	WMWGREAP_1430
BD19763	770155	WMWGREAP_1430
BD19764	770155	WMWGREAP_1430
BD19765	770155	WMWGREAP_1430
BD19766	770155	WMWGREAP_1430
BD19767	770155	WMWGREAP_1430

BD19768	770155	WMWGREAP_1430
BD19769	770155	WMWGREAP_1430
BD19770	770155	WMWGREAP_1430
BD19771	770156	WMWGREAP_1430
BD19772	770156	WMWGREAP_1430
BD19773	770156	WMWGREAP_1430
BD19774	770156	WMWGREAP_1430
BD19775	770156	WMWGREAP_1430
BD19776	770156	WMWGREAP_1430
BD20089	700799	WMWGREAP_1430
BD20090	700799	WMWGREAP_1430
BD20091	700799	WMWGREAP_1430
BD20092	700799	WMWGREAP_1430
BD20093	700799	WMWGREAP_1430
BD20094	700799	WMWGREAP_1430
BD20095	700800	WMWGREAP_1430
BD20096	700800	WMWGREAP_1430
BD20097	700800	WMWGREAP_1430
BD20098	700800	WMWGREAP_1430
BD20099	700800	WMWGREAP_1430
BD20100	700800	WMWGREAP_1430
BD20101	700800	WMWGREAP_1430
BD20102	700800	WMWGREAP_1430
BD20103	700800	WMWGREAP_1430
BD20104	700800	WMWGREAP_1430
BD20105	700801	WMWGREAP_1430

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.

- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

#### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.

# Case Narrative

Total Dissolved Solids

Greene Co. Ash Pond

WMWGREAP\_1430

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19582	769673	WMWGREAP_1430
BD19583	769673	WMWGREAP_1430
BD19584	769673	WMWGREAP_1430
BD19585	769673	WMWGREAP_1430
BD19586	769674	WMWGREAP_1430
BD19587	769674	WMWGREAP_1430
BD19588	769674	WMWGREAP_1430
BD19589	769674	WMWGREAP_1430
BD19590	769674	WMWGREAP_1430
BD19591	769674	WMWGREAP_1430
BD19592	769674	WMWGREAP_1430
BD19593	769674	WMWGREAP_1430
BD19594	769674	WMWGREAP_1430
BD19595	769674	WMWGREAP_1430
BD19596	769968	WMWGREAP_1430
BD19597	769968	WMWGREAP_1430
BD19598	769968	WMWGREAP_1430
BD19599	769968	WMWGREAP_1430
BD19600	769968	WMWGREAP_1430
BD19601	769968	WMWGREAP_1430
BD19602	769968	WMWGREAP_1430
BD19603	769968	WMWGREAP_1430
BD19758	769968	WMWGREAP_1430
BD19759	769968	WMWGREAP_1430
BD19760	769969	WMWGREAP_1430
BD19761	769969	WMWGREAP_1430
BD19762	769969	WMWGREAP_1430
BD19763	769969	WMWGREAP_1430
BD19764	769969	WMWGREAP_1430
BD19765	769969	WMWGREAP_1430
BD19766	769969	WMWGREAP_1430
BD19767	769969	WMWGREAP_1430



BD19768	769969	WMWGREAP_1430
BD19769	769969	WMWGREAP_1430
BD19770	770273	WMWGREAP_1430
BD19771	770273	WMWGREAP_1430
BD19772	770273	WMWGREAP_1430
BD19773	770273	WMWGREAP_1430
BD19774	770273	WMWGREAP_1430
BD19775	770273	WMWGREAP_1430
BD19776	770273	WMWGREAP_1430
BD20089	770680	WMWGREAP_1430
BD20090	770680	WMWGREAP_1430
BD20091	770680	WMWGREAP_1430
BD20092	770695	WMWGREAP_1430
BD20093	770695	WMWGREAP_1430
BD20094	770695	WMWGREAP_1430
BD20095	770695	WMWGREAP_1430
BD20096	770695	WMWGREAP_1430
BD20097	770695	WMWGREAP_1430
BD20098	770695	WMWGREAP_1430
BD20099	770695	WMWGREAP_1430
BD20100	770695	WMWGREAP_1430
BD20101	770695	WMWGREAP_1430
BD20102	770696	WMWGREAP_1430
BD20103	770696	WMWGREAP_1430
BD20104	770696	WMWGREAP_1430
BD20105	770696	WMWGREAP_1430

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was  $\leq 10\%$ .
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue  $< 2.5\text{mg}$  had the maximum volume of 150mL filtered. Affected samples are as follows:
  - BD19584
  - BD19589

## Case Narrative

- BD19598
- BD19599
- BD19603
- BD19776
- BD20092
- BD20105

# Case Narrative

Alkalinity

Greene Co. Ash Pond

WMWGREAP\_1430

- This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
- Refer to comments on Chain of Custody for information regarding sample receipt.
- All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19582	770758, 770759, 770760, 770761	WMWGREAP_1430
BD19583	770758, 770759, 770760, 770761	WMWGREAP_1430
BD19585	770758, 770759, 770760, 770761	WMWGREAP_1430
BD19586	770758, 770759, 770760, 770761	WMWGREAP_1430
BD19587	770885, 770886, 770887, 770888	WMWGREAP_1430
BD19588	770885, 770886, 770887, 770888	WMWGREAP_1430
BD19590	770885, 770886, 770887, 770888	WMWGREAP_1430
BD19591	770758, 770759, 770760, 770761	WMWGREAP_1430
BD19592	770758, 770759, 770760, 770761	WMWGREAP_1430
BD19593	770758, 770759, 770760, 770761	WMWGREAP_1430
BD19594	770758, 770759, 770760, 770761	WMWGREAP_1430
BD19595	770758, 770759, 770760, 770761	WMWGREAP_1430
BD19596	770758, 770759, 770760, 770761	WMWGREAP_1430
BD19597	770885, 770886, 770887, 770888	WMWGREAP_1430
BD19598	770885, 770886, 770887, 770888	WMWGREAP_1430
BD19599	770885, 770886, 770887, 770888	WMWGREAP_1430
BD19600	770885, 770886, 770887, 770888	WMWGREAP_1430
BD19601	770885, 770886, 770887, 770888	WMWGREAP_1430
BD19602	770885, 770886, 770887, 770888	WMWGREAP_1430
BD19758	770961, 770962, 770963, 770964	WMWGREAP_1430
BD19759	770961, 770962, 770963, 770964	WMWGREAP_1430
BD19760	770961, 770962, 770963, 770964	WMWGREAP_1430
BD19761	770961, 770962, 770963, 770964	WMWGREAP_1430
BD19762	770961, 770962, 770963, 770964	WMWGREAP_1430
BD19763	770885, 770886, 770887, 770888	WMWGREAP_1430
BD19764	770961, 770962, 770963, 770964	WMWGREAP_1430
BD19765	770961, 770962, 770963, 770964	WMWGREAP_1430
BD19766	770961, 770962, 770963, 770964	WMWGREAP_1430
BD19767	770961, 770962, 770963, 770964	WMWGREAP_1430
BD19768	770961, 770962, 770963, 770964	WMWGREAP_1430
BD19769	770961, 770962, 770963, 770964	WMWGREAP_1430
BD19770	770961, 770962, 770963, 770964	WMWGREAP_1430

BD19771	770961, 770962, 770963, 770964	WMWGREAP_1430
BD19772	770961, 770962, 770963, 770964	WMWGREAP_1430
BD19773	770961, 770962, 770963, 770964	WMWGREAP_1430
BD19774	770961, 770962, 770963, 770964	WMWGREAP_1430
BD19775	770961, 770962, 770963, 770964	WMWGREAP_1430
BD20089	770961, 770962, 770963, 770964	WMWGREAP_1430
BD20090	770961, 770962, 770963, 770964	WMWGREAP_1430
BD20091	770961, 770962, 770963, 770964	WMWGREAP_1430
BD20093	771478, 771479, 771480, 771481	WMWGREAP_1430
BD20094	771478, 771479, 771480, 771481	WMWGREAP_1430
BD20095	771478, 771479, 771480, 771481	WMWGREAP_1430
BD20096	771478, 771479, 771480, 771481	WMWGREAP_1430
BD20097	771478, 771479, 771480, 771481	WMWGREAP_1430
BD20098	771478, 771479, 771480, 771481	WMWGREAP_1430
BD20099	771478, 771479, 771480, 771481	WMWGREAP_1430
BD20100	771478, 771479, 771480, 771481	WMWGREAP_1430
BD20101	771478, 771479, 771480, 771481	WMWGREAP_1430
BD20102	771478, 771479, 771480, 771481	WMWGREAP_1430
BD20103	771478, 771479, 771480, 771481	WMWGREAP_1430
BD20104	771478, 771479, 771480, 771481	WMWGREAP_1430

- All of the above samples were prepared and analyzed by Standard Method 2320B.
- All samples were prepared and analyzed within the established hold times.
- All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.
- The following samples had pH>10 and/or TDS>500mg/L. Therefore, the calculations for carbonate and bicarbonate are estimates:
  - BD19582
  - BD19583
  - BD19585
  - BD19587
  - BD19588
  - BD19593
  - BD19594

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- BD19758
- BD19759
- BD19760
- BD19761
- BD19764
- BD20093
- BD20094
- BD20097
- BD20098
- BD20099
- BD20102

# Case Narrative

Anions

Greene Co. Ash Pond

WMWGREAP\_1430

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19582	770163, 770027	WMWGREAP_1430
BD19583	770163, 770027	WMWGREAP_1430
BD19584	770163, 770027	WMWGREAP_1430
BD19585	770163, 770027	WMWGREAP_1430
BD19586	770163, 770027	WMWGREAP_1430
BD19587	770163, 770027	WMWGREAP_1430
BD19588	770163, 770027	WMWGREAP_1430
BD19589	770163, 770027	WMWGREAP_1430
BD19590	770163, 770028	WMWGREAP_1430
BD19591	770164, 770028	WMWGREAP_1430
BD19592	770164, 770028	WMWGREAP_1430
BD19593	770164, 770028	WMWGREAP_1430
BD19594	770164, 770028	WMWGREAP_1430
BD19595	770164, 770028	WMWGREAP_1430
BD19596	770164, 770028	WMWGREAP_1430
BD19597	770164, 770028	WMWGREAP_1430
BD19598	770164, 770028	WMWGREAP_1430
BD19599	770164, 770028	WMWGREAP_1430
BD19600	770164, 770029	WMWGREAP_1430
BD19601	770165, 770029	WMWGREAP_1430
BD19602	770165, 770029	WMWGREAP_1430
BD19603	770165, 770029	WMWGREAP_1430
BD19758	770165, 770802	WMWGREAP_1430
BD19759	770165, 770802	WMWGREAP_1430
BD19760	770165, 770802	WMWGREAP_1430
BD19761	770165, 770802	WMWGREAP_1430
BD19762	770165, 770802	WMWGREAP_1430
BD19763	770165, 770802	WMWGREAP_1430
BD19764	770165, 770802	WMWGREAP_1430
BD19765	770166, 770802	WMWGREAP_1430
BD19766	770166, 770802	WMWGREAP_1430

BD19767	770166, 770803	WMWGREAP_1430
BD19768	770166, 770803	WMWGREAP_1430
BD19769	770166, 770803	WMWGREAP_1430
BD19770	770166, 770803	WMWGREAP_1430
BD19771	770166, 770803	WMWGREAP_1430
BD19772	770166, 770803	WMWGREAP_1430
BD19773	770166, 770803	WMWGREAP_1430
BD19774	770166, 770803	WMWGREAP_1430
BD19775	770167, 770803	WMWGREAP_1430
BD19776	770167, 770803	WMWGREAP_1430
BD20089	770712, 770805	WMWGREAP_1430
BD20090	770712, 770805	WMWGREAP_1430
BD20091	770712, 770805	WMWGREAP_1430
BD20092	770712, 770805	WMWGREAP_1430
BD20093	770712, 770805	WMWGREAP_1430
BD20094	770712, 770805	WMWGREAP_1430
BD20095	770712, 770805	WMWGREAP_1430
BD20096	770712, 770805	WMWGREAP_1430
BD20097	770712, 770805	WMWGREAP_1430
BD20098	770712, 770805	WMWGREAP_1430
BD20099	770713, 770806	WMWGREAP_1430
BD20100	770713, 770806	WMWGREAP_1430
BD20101	770713, 770806	WMWGREAP_1430
BD20102	770713, 770806	WMWGREAP_1430
BD20103	770713, 770806	WMWGREAP_1430
BD20104	770713, 770806	WMWGREAP_1430
BD20105	770713, 770806	WMWGREAP_1430

4. All of the above samples were analyzed and prepared by SM4500 Cl E and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.

- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19582	Chloride, Sulfate	4, 40
BD19583	Chloride, Sulfate	4, 40
BD19585	Sulfate	40
BD19586	Chloride	2
BD19587	Sulfate	40
BD19588	Sulfate	40
BD19590	Sulfate	8
BD19591	Chloride	2
BD19593	Sulfate	4
BD19594	Sulfate	4
BD19600	Sulfate	16
BD19601	Sulfate	16
BD19602	Sulfate	6
BD19758	Chloride, Sulfate	4, 16
BD19759	Chloride, Sulfate	20, 16
BD19760	Chloride, Sulfate	8, 4
BD19761	Chloride, Sulfate	8, 4
BD19762	Sulfate	8
BD19764	Chloride, Sulfate	4, 4
BD19765	Sulfate	8
BD19766	Sulfate	10
BD19768	Sulfate	3
BD19769	Sulfate	3
BD19770	Sulfate	3
BD19771	Sulfate	25



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BD19773	Sulfate	4
BD20093	Sulfate	16
BD20094	Sulfate	4
BD20096	Sulfate	3
BD20097	Sulfate	16
BD20098	Sulfate	20
BD20099	Sulfate	16
BD20101	Sulfate	5
BD20102	Sulfate	6
BD20103	Chloride, Sulfate	2, 3

8. The raw data results are shown with dilution factors included.

## Anions by Ion Chromatography

Greene Co. Ash Pond

WMWGREAP\_1430

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19582	771445	WMWGREAP_1430
BD19583	771445	WMWGREAP_1430
BD19584	771445	WMWGREAP_1430
BD19585	771445	WMWGREAP_1430
BD19586	771445	WMWGREAP_1430
BD19587	771445	WMWGREAP_1430
BD19588	771445	WMWGREAP_1430
BD19589	771445	WMWGREAP_1430
BD19590	771445	WMWGREAP_1430
BD19591	771446	WMWGREAP_1430
BD19592	771446	WMWGREAP_1430
BD19593	771446	WMWGREAP_1430
BD19594	771446	WMWGREAP_1430
BD19595	771446	WMWGREAP_1430
BD19596	771446	WMWGREAP_1430
BD19597	771446	WMWGREAP_1430
BD19598	771446	WMWGREAP_1430
BD19599	771446	WMWGREAP_1430
BD19600	771446	WMWGREAP_1430
BD19601	771447	WMWGREAP_1430
BD19602	771447	WMWGREAP_1430
BD19603	771447	WMWGREAP_1430
BD19758	771447	WMWGREAP_1430
BD19759	771447	WMWGREAP_1430
BD19760	771447	WMWGREAP_1430
BD19761	771447	WMWGREAP_1430
BD19762	771447	WMWGREAP_1430
BD19763	771447	WMWGREAP_1430
BD19764	771447	WMWGREAP_1430
BD19765	771448	WMWGREAP_1430
BD19766	771448	WMWGREAP_1430

BD19767	771448	WMWGREAP_1430
BD19768	771448	WMWGREAP_1430
BD19769	771448	WMWGREAP_1430
BD19770	771448	WMWGREAP_1430
BD19771	771448	WMWGREAP_1430
BD19772	771448	WMWGREAP_1430
BD19773	771448	WMWGREAP_1430
BD19774	771448	WMWGREAP_1430
BD19775	772631	WMWGREAP_1430
BD19776	772631	WMWGREAP_1430
BD20089	771449	WMWGREAP_1430
BD20090	771449	WMWGREAP_1430
BD20091	771449	WMWGREAP_1430
BD20092	771449	WMWGREAP_1430
BD20093	771449	WMWGREAP_1430
BD20094	771449	WMWGREAP_1430
BD20095	771449	WMWGREAP_1430
BD20096	771449	WMWGREAP_1430
BD20097	771450	WMWGREAP_1430
BD20098	771450	WMWGREAP_1430
BD20099	771450	WMWGREAP_1430
BD20100	771450	WMWGREAP_1430
BD20101	771450	WMWGREAP_1430
BD20102	771450	WMWGREAP_1430
BD20103	771450	WMWGREAP_1430
BD20104	771450	WMWGREAP_1430
BD20105	771450	WMWGREAP_1430

4. All of the above samples were analyzed and prepared by EPA 300.0.
5. All samples were prepared and analyzed within the established hold times, except for the following:
  - BD19775 & BD19776 were prepared and analyzed outside the established 28 day hold time.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below half the the limit of quantitation for the requested analyte.

- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike was analyzed with each batch. All acceptance criteria for accuracy were met.
  - A sample duplicate was analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
  8. The raw data results are shown with dilution factors included.

# Case Narrative

Nitrate-Nitrite

Greene Co. Ash Pond

WMWGREAP\_1430

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19582	770018	WMWGREAP_1430
BD19583	770018	WMWGREAP_1430
BD19584	770018	WMWGREAP_1430
BD19585	770018	WMWGREAP_1430
BD19586	770018	WMWGREAP_1430
BD19587	770018	WMWGREAP_1430
BD19588	770018	WMWGREAP_1430
BD19589	770018	WMWGREAP_1430
BD19590	770018	WMWGREAP_1430
BD19591	770018	WMWGREAP_1430
BD19592	770019	WMWGREAP_1430
BD19593	770019	WMWGREAP_1430
BD19594	770019	WMWGREAP_1430
BD19595	770019	WMWGREAP_1430
BD19596	770019	WMWGREAP_1430
BD19597	770019	WMWGREAP_1430
BD19598	770019	WMWGREAP_1430
BD19599	770019	WMWGREAP_1430
BD19600	770019	WMWGREAP_1430
BD19601	770019	WMWGREAP_1430
BD19602	770020	WMWGREAP_1430
BD19603	770020	WMWGREAP_1430
BD19758	770020	WMWGREAP_1430
BD19759	770020	WMWGREAP_1430
BD19760	770020	WMWGREAP_1430
BD19761	770020	WMWGREAP_1430
BD19762	770020	WMWGREAP_1430
BD19763	770020	WMWGREAP_1430
BD19764	770020	WMWGREAP_1430
BD19765	770020	WMWGREAP_1430
BD19766	770021	WMWGREAP_1430

BD19767	770021	WMWGREAP_1430
BD19768	770021	WMWGREAP_1430
BD19769	770021	WMWGREAP_1430
BD19770	770021	WMWGREAP_1430
BD19771	770021	WMWGREAP_1430
BD19772	770021	WMWGREAP_1430
BD19773	770021	WMWGREAP_1430
BD19774	770021	WMWGREAP_1430
BD19775	770021	WMWGREAP_1430
BD19776	770022	WMWGREAP_1430
BD20089	770789	WMWGREAP_1430
BD20090	770789	WMWGREAP_1430
BD20091	770789	WMWGREAP_1430
BD20092	770789	WMWGREAP_1430
BD20093	770789	WMWGREAP_1430
BD20094	770789	WMWGREAP_1430
BD20095	770789	WMWGREAP_1430
BD20096	770789	WMWGREAP_1430
BD20097	770789	WMWGREAP_1430
BD20098	770789	WMWGREAP_1430
BD20099	770790	WMWGREAP_1430
BD20100	770790	WMWGREAP_1430
BD20101	770790	WMWGREAP_1430
BD20102	770790	WMWGREAP_1430
BD20103	770790	WMWGREAP_1430
BD20104	770790	WMWGREAP_1430
BD20105	770790	WMWGREAP_1430

4. All of the above samples were prepared and analyzed for NO<sub>x</sub> by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

### EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
  - Matrix Specific QC:
    - A sample duplicate was run and criteria for precision was met.
    - A matrix spike was run and criteria for accuracy was met.
7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Greene Co. Ash Pond

WMWGREAP\_1430

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19582	770015	WMWGREAP_1430
BD19583	770015	WMWGREAP_1430
BD19584	770015	WMWGREAP_1430
BD19585	770015	WMWGREAP_1430
BD19586	770015	WMWGREAP_1430
BD19587	770015	WMWGREAP_1430
BD19588	770015	WMWGREAP_1430
BD19589	770015	WMWGREAP_1430
BD19590	770015	WMWGREAP_1430
BD19591	770015	WMWGREAP_1430
BD19592	770016	WMWGREAP_1430
BD19593	770016	WMWGREAP_1430
BD19594	770016	WMWGREAP_1430
BD19595	770016	WMWGREAP_1430
BD19596	770016	WMWGREAP_1430
BD19597	770016	WMWGREAP_1430
BD19598	770016	WMWGREAP_1430
BD19599	770016	WMWGREAP_1430
BD19600	770016	WMWGREAP_1430
BD19601	770016	WMWGREAP_1430
BD19602	770017	WMWGREAP_1430
BD19603	770017	WMWGREAP_1430
BD19758	770017	WMWGREAP_1430
BD19759	770017	WMWGREAP_1430
BD19760	770017	WMWGREAP_1430
BD19761	770017	WMWGREAP_1430
BD19762	770017	WMWGREAP_1430
BD19763	770017	WMWGREAP_1430
BD19764	770017	WMWGREAP_1430
BD19765	770017	WMWGREAP_1430
BD19766	770057	WMWGREAP_1430
BD19767	770057	WMWGREAP_1430



BD19768	770057	WMWGREAP_1430
BD19769	770057	WMWGREAP_1430
BD19770	770057	WMWGREAP_1430
BD19771	770057	WMWGREAP_1430
BD19772	770058	WMWGREAP_1430
BD19773	770058	WMWGREAP_1430
BD19774	770058	WMWGREAP_1430
BD19775	770058	WMWGREAP_1430
BD19776	770058	WMWGREAP_1430
BD20089	770764	WMWGREAP_1430
BD20090	770764	WMWGREAP_1430
BD20091	770764	WMWGREAP_1430
BD20092	770764	WMWGREAP_1430
BD20093	770764	WMWGREAP_1430
BD20094	770764	WMWGREAP_1430
BD20095	770764	WMWGREAP_1430
BD20096	770764	WMWGREAP_1430
BD20097	770764	WMWGREAP_1430
BD20098	770765	WMWGREAP_1430
BD20099	770765	WMWGREAP_1430
BD20100	770765	WMWGREAP_1430
BD20101	770765	WMWGREAP_1430
BD20102	770765	WMWGREAP_1430
BD20103	770765	WMWGREAP_1430
BD20104	770765	WMWGREAP_1430
BD20105	770765	WMWGREAP_1430

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

#### Matrix Specific Quality Control Procedures:

## Case Narrative

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
  8. The raw data results are shown with dilution factors included.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-1

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 10:30  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:05

**Laboratory ID Number:** BD19582

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 11:30	11/1/23 14:21		1.015	0.231	mg/L	0.030000	0.1015	
* Calcium, Total	10/26/23 11:30	11/1/23 19:39		10.15	122	mg/L	0.70035	4.06	
* Iron, Total	10/26/23 11:30	11/1/23 20:42		101.5	195	mg/L	0.8120	4.06	BB
* Lithium, Total	10/26/23 11:30	11/1/23 14:21		1.015	0.00810	mg/L	0.007105	0.01999956	J
* Magnesium, Total	10/26/23 11:30	11/1/23 14:21		1.015	28.1	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 11:30	11/1/23 14:21		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 14:21		1	11.0	mg/L			
* Silicon, Total	10/26/23 11:30	11/1/23 14:21		1.015	5.12	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 11:30	11/1/23 14:21		1.015	33.3	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/26/23 08:50	11/1/23 12:49		1.015	0.231	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/26/23 08:50	11/1/23 18:07		10.15	140	mg/L	0.70035	4.06	
* Iron, Dissolved	10/26/23 08:50	11/1/23 19:10		101.5	198	mg/L	0.8120	4.06	
* Lithium, Dissolved	10/26/23 08:50	11/1/23 12:49		1.015	0.00881	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 12:49		1.015	28.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 12:49		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 12:49		1	10.9	mg/L			
* Silicon, Dissolved	10/26/23 08:50	11/1/23 12:49		1.015	5.11	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 08:50	11/1/23 12:49		1.015	33.3	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 11:30	10/26/23 16:32		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 11:30	10/26/23 16:32		1.015	0.102	mg/L	0.009135	0.05075	
* Arsenic, Total	10/26/23 11:30	10/26/23 16:32		1.015	0.0152	mg/L	0.000112	0.000203	
* Barium, Total	10/26/23 11:30	10/26/23 16:32		1.015	0.0368	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 11:30	10/26/23 16:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 11:30	10/26/23 16:32		1.015	0.0000886	mg/L	0.000068	0.000203	J
* Chromium, Total	10/26/23 11:30	10/26/23 16:32		1.015	0.000481	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/26/23 11:30	10/26/23 16:32		1.015	0.202	mg/L	0.000068	0.000203	
* Lead, Total	10/26/23 11:30	10/26/23 16:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/26/23 11:30	10/30/23 13:41		92.365	14.4	mg/L	0.013855	0.092365	BB

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-1

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 10:30  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:05

**Laboratory ID Number:** BD19582

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 11:30	10/26/23 16:32		1.015	4.86	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 11:30	10/26/23 16:32		1.015	0.000734	mg/L	0.000508	0.001015	J
* Thallium, Total	10/26/23 11:30	10/26/23 16:32		1.015	0.000173	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 08:50	10/26/23 14:38		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 14:38		1.015	0.0223	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 14:38		1.015	0.0149	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/26/23 08:50	10/26/23 14:38		1.015	0.0366	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 14:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 14:38		1.015	0.0000909	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	10/26/23 08:50	10/26/23 14:38		1.015	0.000489	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 14:38		1.015	0.200	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 08:50	10/26/23 14:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 08:50	10/30/23 12:22		92.365	14.4	mg/L	0.013855	0.092365	
* Potassium, Dissolved	10/26/23 08:50	10/26/23 14:38		1.015	4.72	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 08:50	10/26/23 14:38		1.015	0.000808	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	10/26/23 08:50	10/26/23 14:38		1.015	0.000140	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 17:04		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/14/23 21:57	11/14/23 21:57		1	0.0372	mg/L	0.02	0.04	J
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 13:56	10/26/23 13:56		1	0.387	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 13:52	11/3/23 15:25		1	4.49	SU		2	
* Alkalinity	11/3/23 13:52	11/3/23 15:25		1	31.0	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	1260	mg/L		75.8	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	31.0	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	Not Detected	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-1

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 10:30  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:05

**Laboratory ID Number:** BD19582

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 09:38	10/27/23 09:38		1	3.28	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:56	10/30/23 14:56		4	39.5	mg/L	2.00	4	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:38	10/26/23 11:38		40	714	mg/L	24.0	80	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	10/24/23 10:28	10/24/23 10:28			1315.00	uS/cm			FA
pH	10/24/23 10:28	10/24/23 10:28			5.66	SU			FA
Temperature	10/24/23 10:28	10/24/23 10:28			22.41	C			FA
Turbidity	10/24/23 10:28	10/24/23 10:28			6.39	NTU			FA
Sulfide	10/24/23 10:28	10/24/23 10:28			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 10:30  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:05

**Description:** Greene County Ash Pond - MW-1

**Laboratory ID Number:** BD19582

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19593	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0991	0.0993	0.0960	0.0850 to 0.115	99.1	70.0 to 130	0.202	20.0
BD19591	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19593	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0977	0.0987	0.0956	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BD19591	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.105	0.104	0.0977	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD19593	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.991	0.971	0.0973	0.0850 to 0.115	89.0	70.0 to 130	2.04	20.0
BD19591	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.150	0.152	0.0964	0.0850 to 0.115	98.3	70.0 to 130	1.32	20.0
BD19593	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.362	0.357	0.102	0.0850 to 0.115	102	70.0 to 130	1.39	20.0
BD19591	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.168	0.169	0.0994	0.0850 to 0.115	98.8	70.0 to 130	0.593	20.0
BD19593	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.109	0.111	0.0983	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD19591	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0984	0.102	0.100	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BD19593	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	3.15	3.13	0.932	0.850 to 1.15	93.0	70.0 to 130	0.637	20.0
BD19591	Boron, Total	mg/L	-0.000014	0.0650	1.00	2.01	2.00	0.935	0.850 to 1.15	94.0	70.0 to 130	0.499	20.0
BD19593	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.0998	0.102	0.104	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BD19591	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0928	0.0934	0.0908	0.0850 to 0.115	92.8	70.0 to 130	0.644	20.0
BD19593	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	151	150	5.00	4.25 to 5.75	60.0	70.0 to 130	0.664	20.0
BD19591	Calcium, Total	mg/L	-0.0387	0.152	5.00	74.6	82.7	4.87	4.25 to 5.75	-58.0	70.0 to 130	10.3	20.0
BD19590	Chloride	mg/L	0.0716	1.00	10.0	20.5	20.2	10.1	9.00 to 11.0	98.0	80.0 to 120	1.47	20.0
BD19593	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.100	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD19591	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19593	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.110	0.110	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19591	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.126	0.127	0.105	0.0850 to 0.115	104	70.0 to 130	0.791	20.0
BD19593	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	36.9	35.4	0.193	0.170 to 0.230	-250	70.0 to 130	4.15	20.0
BD19591	Iron, Total	mg/L	0.0463	0.0176	0.2	14.7	16.2	0.195	0.170 to 0.230	-600	70.0 to 130	9.71	20.0
BD19593	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0954	0.101	0.105	0.0850 to 0.115	95.4	70.0 to 130	5.70	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 10:30  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:05

**Description:** Greene County Ash Pond - MW-1

**Laboratory ID Number:** BD19582

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19591	Lead, Total	mg/L	0.000063	0.000147	0.100	0.106	0.102	0.100	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BD19593	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.854	0.849	0.192	0.170 to 0.230	95.5	70.0 to 130	0.587	20.0
BD19591	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.469	0.465	0.197	0.170 to 0.230	96.5	70.0 to 130	0.857	20.0
BD19593	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	34.4	34.2	4.89	4.25 to 5.75	94.0	70.0 to 130	0.583	20.0
BD19591	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	16.8	16.8	4.90	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD19593	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	1.81	1.75	0.104	0.0850 to 0.115	60.0	70.0 to 130	3.37	20.0
BD19591	Manganese, Total	mg/L	0.000806	0.00033	0.100	2.80	2.76	0.105	0.0850 to 0.115	130	70.0 to 130	1.44	20.0
BD19586	Mercury, Total by CVAA	mg/L	7.130E-06	0.000500	0.004	0.00339	0.00339	0.00378	0.00340 to 0.00460	84.8	70.0 to 130	0.00	20.0
BD19593	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.244	0.243	0.197	0.170 to 0.230	101	70.0 to 130	0.411	20.0
BD19591	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.202	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD19593	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	23.9	23.3	9.44	8.50 to 11.5	104	70.0 to 130	2.54	20.0
BD19591	Potassium, Total	mg/L	-0.00589	0.367	10.0	15.1	15.0	9.83	8.50 to 11.5	97.5	70.0 to 130	0.664	20.0
BD19593	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19591	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.101	0.101	0.0988	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19593	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	9.43	9.39	0.968	0.850 to 1.15	86.0	70.0 to 130	0.425	20.0
BD19591	Silicon, Total	mg/L	-0.00025	0.0440	1.00	8.98	8.95	0.971	0.850 to 1.15	83.0	70.0 to 130	0.335	20.0
BD19593	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	54.1	53.4	4.90	4.25 to 5.75	76.0	70.0 to 130	1.30	20.0
BD19591	Sodium, Total	mg/L	0.00116	0.0880	5.00	43.1	48.1	4.92	4.25 to 5.75	16.0	70.0 to 130	11.0	20.0
BD19589	Sulfate	mg/L	0.286	2.0	20.0	19.6	19.8	20.1	18.0 to 22.0	91.4	80.0 to 120	1.02	20.0
BD19593	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.0980	0.103	0.108	0.0850 to 0.115	98.0	70.0 to 130	4.98	20.0
BD19591	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.108	0.104	0.102	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD19591	Total Organic Carbon	mg/L	0.122	1.00	10.0	13.8	13.9	23.8		96.0	80.0 to 120	0.722	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 10:30  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:05

**Description:** Greene County Ash Pond - MW-1

**Laboratory ID Number:** BD19582

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19592	Alkalinity	mg CaCO3/L					206	51.1	45.0 to 55.0			1.45	10.0
BD19590	Fluoride	mg/L	0.000000	0.0200	2.00	2.31	0.197	2.07	1.80 to 2.20	105	80.0 to 120	5.43	20.0
BD19591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.96	0.082	1.82	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD19585	Solids, Dissolved	mg/L	0.0000	25.0			1020	47.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-1 Dup

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 10:30  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:05

**Laboratory ID Number:** BD19583

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 11:30	11/1/23 14:24		1.015	0.231	mg/L	0.030000	0.1015	
* Calcium, Total	10/26/23 11:30	11/1/23 19:42		10.15	132	mg/L	0.70035	4.06	
* Iron, Total	10/26/23 11:30	11/1/23 20:45		101.5	197	mg/L	0.8120	4.06	BB
* Lithium, Total	10/26/23 11:30	11/1/23 14:24		1.015	0.00848	mg/L	0.007105	0.01999956	J
* Magnesium, Total	10/26/23 11:30	11/1/23 14:24		1.015	28.3	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 11:30	11/1/23 14:24		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 14:24		1	10.9	mg/L			
* Silicon, Total	10/26/23 11:30	11/1/23 14:24		1.015	5.11	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 11:30	11/1/23 14:24		1.015	33.4	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/26/23 08:50	11/1/23 12:53		1.015	0.237	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/26/23 08:50	11/1/23 18:10		10.15	139	mg/L	0.70035	4.06	
* Iron, Dissolved	10/26/23 08:50	11/1/23 19:13		101.5	197	mg/L	0.8120	4.06	
* Lithium, Dissolved	10/26/23 08:50	11/1/23 12:53		1.015	0.00884	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 12:53		1.015	28.5	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 12:53		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 12:53		1	11.0	mg/L			
* Silicon, Dissolved	10/26/23 08:50	11/1/23 12:53		1.015	5.12	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 08:50	11/1/23 12:53		1.015	33.8	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 11:30	10/26/23 16:36		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 11:30	10/26/23 16:36		1.015	0.101	mg/L	0.009135	0.05075	
* Arsenic, Total	10/26/23 11:30	10/26/23 16:36		1.015	0.0151	mg/L	0.000112	0.000203	
* Barium, Total	10/26/23 11:30	10/26/23 16:36		1.015	0.0360	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 11:30	10/26/23 16:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 11:30	10/26/23 16:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/26/23 11:30	10/26/23 16:36		1.015	0.000512	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/26/23 11:30	10/26/23 16:36		1.015	0.204	mg/L	0.000068	0.000203	
* Lead, Total	10/26/23 11:30	10/26/23 16:36		1.015	0.0000791	mg/L	0.000068	0.000203	J
* Manganese, Total	10/26/23 11:30	10/30/23 13:45		92.365	14.7	mg/L	0.013855	0.092365	BB

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-1 Dup

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 10:30  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:05

**Laboratory ID Number:** BD19583

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 11:30	10/26/23 16:36		1.015	4.84	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 11:30	10/26/23 16:36		1.015	0.000763	mg/L	0.000508	0.001015	J
* Thallium, Total	10/26/23 11:30	10/26/23 16:36		1.015	0.000166	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 08:50	10/26/23 14:41		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 14:41		1.015	0.0228	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 14:41		1.015	0.0149	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/26/23 08:50	10/26/23 14:41		1.015	0.0363	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 14:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 14:41		1.015	0.0000697	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	10/26/23 08:50	10/26/23 14:41		1.015	0.000529	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 14:41		1.015	0.200	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 08:50	10/26/23 14:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 08:50	10/30/23 12:26		92.365	14.7	mg/L	0.013855	0.092365	
* Potassium, Dissolved	10/26/23 08:50	10/26/23 14:41		1.015	4.80	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 08:50	10/26/23 14:41		1.015	0.000807	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	10/26/23 08:50	10/26/23 14:41		1.015	0.000153	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 17:07		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/14/23 22:21	11/14/23 22:21		1	0.0371	mg/L	0.02	0.04	J
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 13:58	10/26/23 13:58		1	0.383	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 13:52	11/3/23 15:25		1	4.50	SU		2	
* Alkalinity	11/3/23 13:52	11/3/23 15:25		1	34.6	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	1250	mg/L		75.8	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	34.6	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	Not Detected	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-1 Dup

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 10:30  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:05

**Laboratory ID Number:** BD19583

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 09:52	10/27/23 09:52		1	3.72	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:57	10/30/23 14:57		4	42.0	mg/L	2.00	4	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:39	10/26/23 11:39		40	702	mg/L	24.0	80	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	10/24/23 10:28	10/24/23 10:28			1315.00	uS/cm			FA
pH	10/24/23 10:28	10/24/23 10:28			5.66	SU			FA
Temperature	10/24/23 10:28	10/24/23 10:28			22.41	C			FA
Turbidity	10/24/23 10:28	10/24/23 10:28			6.39	NTU			FA
Sulfide	10/24/23 10:28	10/24/23 10:28			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 10:30  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:05

**Description:** Greene County Ash Pond - MW-1 Dup

**Laboratory ID Number:** BD19583

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19593	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0991	0.0993	0.0960	0.0850 to 0.115	99.1	70.0 to 130	0.202	20.0
BD19591	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19593	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0977	0.0987	0.0956	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BD19591	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.105	0.104	0.0977	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD19593	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.991	0.971	0.0973	0.0850 to 0.115	89.0	70.0 to 130	2.04	20.0
BD19591	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.150	0.152	0.0964	0.0850 to 0.115	98.3	70.0 to 130	1.32	20.0
BD19593	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.362	0.357	0.102	0.0850 to 0.115	102	70.0 to 130	1.39	20.0
BD19591	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.168	0.169	0.0994	0.0850 to 0.115	98.8	70.0 to 130	0.593	20.0
BD19593	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.109	0.111	0.0983	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD19591	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0984	0.102	0.100	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BD19593	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	3.15	3.13	0.932	0.850 to 1.15	93.0	70.0 to 130	0.637	20.0
BD19591	Boron, Total	mg/L	-0.000014	0.0650	1.00	2.01	2.00	0.935	0.850 to 1.15	94.0	70.0 to 130	0.499	20.0
BD19593	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.0998	0.102	0.104	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BD19591	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0928	0.0934	0.0908	0.0850 to 0.115	92.8	70.0 to 130	0.644	20.0
BD19593	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	151	150	5.00	4.25 to 5.75	60.0	70.0 to 130	0.664	20.0
BD19591	Calcium, Total	mg/L	-0.0387	0.152	5.00	74.6	82.7	4.87	4.25 to 5.75	-58.0	70.0 to 130	10.3	20.0
BD19590	Chloride	mg/L	0.0716	1.00	10.0	20.5	20.2	10.1	9.00 to 11.0	98.0	80.0 to 120	1.47	20.0
BD19593	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.100	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD19591	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19593	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.110	0.110	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19591	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.126	0.127	0.105	0.0850 to 0.115	104	70.0 to 130	0.791	20.0
BD19593	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	36.9	35.4	0.193	0.170 to 0.230	-250	70.0 to 130	4.15	20.0
BD19591	Iron, Total	mg/L	0.0463	0.0176	0.2	14.7	16.2	0.195	0.170 to 0.230	-600	70.0 to 130	9.71	20.0
BD19593	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0954	0.101	0.105	0.0850 to 0.115	95.4	70.0 to 130	5.70	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 10:30  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:05

**Description:** Greene County Ash Pond - MW-1 Dup

**Laboratory ID Number:** BD19583

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19591	Lead, Total	mg/L	0.000063	0.000147	0.100	0.106	0.102	0.100	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BD19593	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.854	0.849	0.192	0.170 to 0.230	95.5	70.0 to 130	0.587	20.0
BD19591	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.469	0.465	0.197	0.170 to 0.230	96.5	70.0 to 130	0.857	20.0
BD19593	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	34.4	34.2	4.89	4.25 to 5.75	94.0	70.0 to 130	0.583	20.0
BD19591	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	16.8	16.8	4.90	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD19593	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	1.81	1.75	0.104	0.0850 to 0.115	60.0	70.0 to 130	3.37	20.0
BD19591	Manganese, Total	mg/L	0.000806	0.00033	0.100	2.80	2.76	0.105	0.0850 to 0.115	130	70.0 to 130	1.44	20.0
BD19586	Mercury, Total by CVAA	mg/L	7.130E-06	0.000500	0.004	0.00339	0.00339	0.00378	0.00340 to 0.00460	84.8	70.0 to 130	0.00	20.0
BD19593	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.244	0.243	0.197	0.170 to 0.230	101	70.0 to 130	0.411	20.0
BD19591	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.202	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD19593	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	23.9	23.3	9.44	8.50 to 11.5	104	70.0 to 130	2.54	20.0
BD19591	Potassium, Total	mg/L	-0.00589	0.367	10.0	15.1	15.0	9.83	8.50 to 11.5	97.5	70.0 to 130	0.664	20.0
BD19593	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19591	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.101	0.101	0.0988	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19593	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	9.43	9.39	0.968	0.850 to 1.15	86.0	70.0 to 130	0.425	20.0
BD19591	Silicon, Total	mg/L	-0.00025	0.0440	1.00	8.98	8.95	0.971	0.850 to 1.15	83.0	70.0 to 130	0.335	20.0
BD19593	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	54.1	53.4	4.90	4.25 to 5.75	76.0	70.0 to 130	1.30	20.0
BD19591	Sodium, Total	mg/L	0.00116	0.0880	5.00	43.1	48.1	4.92	4.25 to 5.75	16.0	70.0 to 130	11.0	20.0
BD19589	Sulfate	mg/L	0.286	2.0	20.0	19.6	19.8	20.1	18.0 to 22.0	91.4	80.0 to 120	1.02	20.0
BD19593	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.0980	0.103	0.108	0.0850 to 0.115	98.0	70.0 to 130	4.98	20.0
BD19591	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.108	0.104	0.102	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD19591	Total Organic Carbon	mg/L	0.122	1.00	10.0	13.8	13.9	23.8		96.0	80.0 to 120	0.722	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 10:30  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:05

**Description:** Greene County Ash Pond - MW-1 Dup

**Laboratory ID Number:** BD19583

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BD19592	Alkalinity	mg CaCO3/L					206	51.1	45.0 to 55.0			1.45	10.0
BD19590	Fluoride	mg/L	0.000000	0.0200	2.00	2.31	0.197	2.07	1.80 to 2.20	105	80.0 to 120	5.43	20.0
BD19591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.96	0.082	1.82	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD19585	Solids, Dissolved	mg/L	0.0000	25.0			1020	47.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-4

**Location Code:** WMWGREAPFB  
**Collected:** 10/24/23 10:50  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:05

**Laboratory ID Number:** BD19584

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 11:30	11/1/23 14:27		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/26/23 11:30	11/1/23 14:27		1.015	Not Detected	mg/L	0.070035	0.406	U
* Lithium, Total	10/26/23 11:30	11/1/23 14:27		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/26/23 11:30	11/1/23 14:27		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	10/26/23 11:30	11/1/23 14:27		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 14:27		1	Not Detected	mg/L			
* Silicon, Total	10/26/23 11:30	11/1/23 14:27		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	10/26/23 11:30	11/1/23 14:27		1.015	Not Detected	mg/L	0.04060	0.406	U
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Iron, Total	11/7/23 07:18	11/14/23 11:47		1.015	Not Detected	mg/L	0.008120	0.0406	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 11:30	10/26/23 16:40		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 11:30	10/26/23 16:40		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/26/23 11:30	10/26/23 16:40		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	10/26/23 11:30	10/26/23 16:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	10/26/23 11:30	10/26/23 16:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 11:30	10/26/23 16:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/26/23 11:30	10/26/23 16:40		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/26/23 11:30	10/26/23 16:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/26/23 11:30	10/26/23 16:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/31/23 15:20	11/2/23 15:15		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	10/26/23 11:30	10/26/23 16:40		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/26/23 11:30	10/26/23 16:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 11:30	10/26/23 16:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 17:09		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/14/23 22:44	11/14/23 22:44		1	Not Detected	mg/L	0.02	0.04	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 13:59	10/26/23 13:59		1	Not Detected	mg/L as N	0.20	0.3	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-4

**Location Code:** WMWGREAPFB  
**Collected:** 10/24/23 10:50  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:05

**Laboratory ID Number:** BD19584

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	Not Detected	mg/L		25	U
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 10:06	10/27/23 10:06		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500CI E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:45	10/30/23 14:45		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:28	10/26/23 11:28		1	1.18	mg/L	0.6	2	J

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**



# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 10/24/23 10:50

**Customer ID:**

**Delivery Date:** 10/25/23 10:05

**Description:** Greene County Ash Pond Field Blank-4

**Laboratory ID Number:** BD19584

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19591	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19591	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.105	0.104	0.0977	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD19591	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.150	0.152	0.0964	0.0850 to 0.115	98.3	70.0 to 130	1.32	20.0
BD19591	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.168	0.169	0.0994	0.0850 to 0.115	98.8	70.0 to 130	0.593	20.0
BD19591	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0984	0.102	0.100	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BD19591	Boron, Total	mg/L	-0.000014	0.0650	1.00	2.01	2.00	0.935	0.850 to 1.15	94.0	70.0 to 130	0.499	20.0
BD19591	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0928	0.0934	0.0908	0.0850 to 0.115	92.8	70.0 to 130	0.644	20.0
BD19591	Calcium, Total	mg/L	-0.0387	0.152	5.00	74.6	82.7	4.87	4.25 to 5.75	-58.0	70.0 to 130	10.3	20.0
BD19590	Chloride	mg/L	0.0716	1.00	10.0	20.5	20.2	10.1	9.00 to 11.0	98.0	80.0 to 120	1.47	20.0
BD19591	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19591	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.126	0.127	0.105	0.0850 to 0.115	104	70.0 to 130	0.791	20.0
BD19600	Iron, Total	mg/L	0.00152	0.0176	0.2	0.704	0.703	0.215	0.170 to 0.230	102	70.0 to 130	0.142	20.0
BD19591	Lead, Total	mg/L	0.0000063	0.000147	0.100	0.106	0.102	0.100	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BD19591	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.469	0.465	0.197	0.170 to 0.230	96.5	70.0 to 130	0.857	20.0
BD19591	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	16.8	16.8	4.90	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD19599	Manganese, Total	mg/L	0.0000025	0.00033	0.100	0.111	0.108	0.109	0.0850 to 0.115	108	70.0 to 130	2.74	20.0
BD19586	Mercury, Total by CVAA	mg/L	7.130E-06	0.000500	0.004	0.00339	0.00339	0.00378	0.00340 to 0.00460	84.8	70.0 to 130	0.00	20.0
BD19591	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.202	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD19591	Potassium, Total	mg/L	-0.00589	0.367	10.0	15.1	15.0	9.83	8.50 to 11.5	97.5	70.0 to 130	0.664	20.0
BD19591	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.101	0.101	0.0988	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19591	Silicon, Total	mg/L	-0.00025	0.0440	1.00	8.98	8.95	0.971	0.850 to 1.15	83.0	70.0 to 130	0.335	20.0
BD19591	Sodium, Total	mg/L	0.00116	0.0880	5.00	43.1	48.1	4.92	4.25 to 5.75	16.0	70.0 to 130	11.0	20.0
BD19589	Sulfate	mg/L	0.286	2.0	20.0	19.6	19.8	20.1	18.0 to 22.0	91.4	80.0 to 120	1.02	20.0
BD19591	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.108	0.104	0.102	0.0850 to 0.115	108	70.0 to 130	3.77	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB  
**Sample Date:** 10/24/23 10:50  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:05

**Description:** Greene County Ash Pond Field Blank-4

**Laboratory ID Number:** BD19584

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BD19591	Total Organic Carbon	mg/L	0.122	1.00	10.0	13.8	13.9	23.8		96.0	80.0 to 120	0.722	20.0

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**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 10/24/23 10:50

**Customer ID:**

**Delivery Date:** 10/25/23 10:05

**Description:** Greene County Ash Pond Field Blank-4

**Laboratory ID Number:** BD19584

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19590	Fluoride	mg/L	0.000000	0.0200	2.00	2.31	0.197	2.07	1.80 to 2.20	105	80.0 to 120	5.43	20.0
BD19591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.96	0.082	1.82	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD19585	Solids, Dissolved	mg/L	0.0000	25.0			1020	47.0	40.0 to 60.0			0.00	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-2

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 12:47  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19585

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 11:30	11/1/23 14:31		1.015	0.143	mg/L	0.030000	0.1015	
* Calcium, Total	10/26/23 11:30	11/1/23 19:45		10.15	201	mg/L	0.70035	4.06	
* Iron, Total	10/26/23 11:30	11/1/23 20:48		101.5	63.7	mg/L	0.8120	4.06	BB
* Lithium, Total	10/26/23 11:30	11/1/23 14:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/26/23 11:30	11/1/23 14:31		1.015	24.6	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 11:30	11/1/23 14:31		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 14:31		1	11.3	mg/L			
* Silicon, Total	10/26/23 11:30	11/1/23 14:31		1.015	5.29	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 11:30	11/1/23 14:31		1.015	30.0	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/26/23 08:50	11/1/23 12:56		1.015	0.149	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/26/23 08:50	11/1/23 18:13		10.15	199	mg/L	0.70035	4.06	
* Iron, Dissolved	10/26/23 08:50	11/1/23 19:17		101.5	61.7	mg/L	0.8120	4.06	
* Lithium, Dissolved	10/26/23 08:50	11/1/23 12:56		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 12:56		1.015	24.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 12:56		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 12:56		1	11.4	mg/L			
* Silicon, Dissolved	10/26/23 08:50	11/1/23 12:56		1.015	5.35	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 08:50	11/1/23 12:56		1.015	30.4	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 11:30	10/26/23 16:43		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 11:30	10/26/23 16:43		1.015	0.156	mg/L	0.009135	0.05075	
* Arsenic, Total	10/26/23 11:30	10/26/23 16:43		1.015	0.00587	mg/L	0.000112	0.000203	
* Barium, Total	10/26/23 11:30	10/26/23 16:43		1.015	0.0373	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 11:30	10/26/23 16:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 11:30	10/26/23 16:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/26/23 11:30	10/26/23 16:43		1.015	0.000356	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/26/23 11:30	10/26/23 16:43		1.015	0.0378	mg/L	0.000068	0.000203	
* Lead, Total	10/26/23 11:30	10/26/23 16:43		1.015	0.000828	mg/L	0.000068	0.000203	
* Manganese, Total	10/26/23 11:30	10/30/23 13:48		10.15	6.59	mg/L	0.001522	0.01015	BB

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-2

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 12:47  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19585

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 11:30	10/26/23 16:43		1.015	6.69	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 11:30	10/26/23 16:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 11:30	10/26/23 16:43		1.015	0.000136	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 08:50	10/26/23 14:45		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 14:45		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 14:45		1.015	0.00583	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/26/23 08:50	10/26/23 14:45		1.015	0.0367	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 14:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 14:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/26/23 08:50	10/26/23 14:45		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 14:45		1.015	0.0363	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 08:50	10/26/23 14:45		1.015	0.000331	mg/L	0.000068	0.000203	
* Manganese, Dissolved	10/26/23 08:50	10/30/23 12:30		10.15	6.49	mg/L	0.001522	0.01015	
* Potassium, Dissolved	10/26/23 08:50	10/26/23 14:45		1.015	6.46	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 08:50	10/26/23 14:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 08:50	10/26/23 14:45		1.015	0.000118	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 17:11		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/14/23 23:08	11/14/23 23:08		1	0.0600	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:01	10/26/23 14:01		1	0.283	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 13:52	11/3/23 15:25		1	4.48	SU		2	
* Alkalinity	11/3/23 13:52	11/3/23 15:25		1	34.8	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	1020	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	34.8	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	Not Detected	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-2

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 12:47  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19585

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 10:19	10/27/23 10:19		1	2.33	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:47	10/30/23 14:47		1	10.7	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:40	10/26/23 11:40		40	606	mg/L	24.0	80	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	10/24/23 12:46	10/24/23 12:46			1147.26	uS/cm			FA
pH	10/24/23 12:46	10/24/23 12:46			6.01	SU			FA
Temperature	10/24/23 12:46	10/24/23 12:46			24.75	C			FA
Turbidity	10/24/23 12:46	10/24/23 12:46			7.07	NTU			FA
Sulfide	10/24/23 12:46	10/24/23 12:46			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 12:47  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-2

**Laboratory ID Number:** BD19585

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19593	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0991	0.0993	0.0960	0.0850 to 0.115	99.1	70.0 to 130	0.202	20.0
BD19591	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19593	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0977	0.0987	0.0956	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BD19591	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.105	0.104	0.0977	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD19593	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.991	0.971	0.0973	0.0850 to 0.115	89.0	70.0 to 130	2.04	20.0
BD19591	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.150	0.152	0.0964	0.0850 to 0.115	98.3	70.0 to 130	1.32	20.0
BD19593	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.362	0.357	0.102	0.0850 to 0.115	102	70.0 to 130	1.39	20.0
BD19591	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.168	0.169	0.0994	0.0850 to 0.115	98.8	70.0 to 130	0.593	20.0
BD19593	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.109	0.111	0.0983	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD19591	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0984	0.102	0.100	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BD19593	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	3.15	3.13	0.932	0.850 to 1.15	93.0	70.0 to 130	0.637	20.0
BD19591	Boron, Total	mg/L	-0.000014	0.0650	1.00	2.01	2.00	0.935	0.850 to 1.15	94.0	70.0 to 130	0.499	20.0
BD19593	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.0998	0.102	0.104	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BD19591	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0928	0.0934	0.0908	0.0850 to 0.115	92.8	70.0 to 130	0.644	20.0
BD19593	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	151	150	5.00	4.25 to 5.75	60.0	70.0 to 130	0.664	20.0
BD19591	Calcium, Total	mg/L	-0.0387	0.152	5.00	74.6	82.7	4.87	4.25 to 5.75	-58.0	70.0 to 130	10.3	20.0
BD19590	Chloride	mg/L	0.0716	1.00	10.0	20.5	20.2	10.1	9.00 to 11.0	98.0	80.0 to 120	1.47	20.0
BD19593	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.100	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD19591	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19593	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.110	0.110	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19591	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.126	0.127	0.105	0.0850 to 0.115	104	70.0 to 130	0.791	20.0
BD19593	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	36.9	35.4	0.193	0.170 to 0.230	-250	70.0 to 130	4.15	20.0
BD19591	Iron, Total	mg/L	0.0463	0.0176	0.2	14.7	16.2	0.195	0.170 to 0.230	-600	70.0 to 130	9.71	20.0
BD19593	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0954	0.101	0.105	0.0850 to 0.115	95.4	70.0 to 130	5.70	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 12:47  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-2

**Laboratory ID Number:** BD19585

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19591	Lead, Total	mg/L	0.000063	0.000147	0.100	0.106	0.102	0.100	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BD19593	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.854	0.849	0.192	0.170 to 0.230	95.5	70.0 to 130	0.587	20.0
BD19591	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.469	0.465	0.197	0.170 to 0.230	96.5	70.0 to 130	0.857	20.0
BD19593	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	34.4	34.2	4.89	4.25 to 5.75	94.0	70.0 to 130	0.583	20.0
BD19591	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	16.8	16.8	4.90	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD19593	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	1.81	1.75	0.104	0.0850 to 0.115	60.0	70.0 to 130	3.37	20.0
BD19591	Manganese, Total	mg/L	0.000806	0.00033	0.100	2.80	2.76	0.105	0.0850 to 0.115	130	70.0 to 130	1.44	20.0
BD19586	Mercury, Total by CVAA	mg/L	7.130E-06	0.000500	0.004	0.00339	0.00339	0.00378	0.00340 to 0.00460	84.8	70.0 to 130	0.00	20.0
BD19593	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.244	0.243	0.197	0.170 to 0.230	101	70.0 to 130	0.411	20.0
BD19591	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.202	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD19593	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	23.9	23.3	9.44	8.50 to 11.5	104	70.0 to 130	2.54	20.0
BD19591	Potassium, Total	mg/L	-0.00589	0.367	10.0	15.1	15.0	9.83	8.50 to 11.5	97.5	70.0 to 130	0.664	20.0
BD19593	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19591	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.101	0.101	0.0988	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19593	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	9.43	9.39	0.968	0.850 to 1.15	86.0	70.0 to 130	0.425	20.0
BD19591	Silicon, Total	mg/L	-0.00025	0.0440	1.00	8.98	8.95	0.971	0.850 to 1.15	83.0	70.0 to 130	0.335	20.0
BD19593	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	54.1	53.4	4.90	4.25 to 5.75	76.0	70.0 to 130	1.30	20.0
BD19591	Sodium, Total	mg/L	0.00116	0.0880	5.00	43.1	48.1	4.92	4.25 to 5.75	16.0	70.0 to 130	11.0	20.0
BD19589	Sulfate	mg/L	0.286	2.0	20.0	19.6	19.8	20.1	18.0 to 22.0	91.4	80.0 to 120	1.02	20.0
BD19593	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.0980	0.103	0.108	0.0850 to 0.115	98.0	70.0 to 130	4.98	20.0
BD19591	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.108	0.104	0.102	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD19591	Total Organic Carbon	mg/L	0.122	1.00	10.0	13.8	13.9	23.8		96.0	80.0 to 120	0.722	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 12:47  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-2

**Laboratory ID Number:** BD19585

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19592	Alkalinity	mg CaCO3/L					206	51.1	45.0 to 55.0			1.45	10.0
BD19590	Fluoride	mg/L	0.000000	0.0200	2.00	2.31	0.197	2.07	1.80 to 2.20	105	80.0 to 120	5.43	20.0
BD19591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.96	0.082	1.82	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD19585	Solids, Dissolved	mg/L	0.0000	25.0			1020	47.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-3

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 13:32  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19586

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	10/26/23 11:30	11/1/23 14:34		1.015	0.0481	mg/L	0.030000	0.1015	J	
* Calcium, Total	10/26/23 11:30	11/1/23 19:48		10.15	64.4	mg/L	0.70035	4.06		
* Iron, Total	10/26/23 11:30	11/1/23 20:51		101.5	53.5	mg/L	0.8120	4.06	BB	
* Lithium, Total	10/26/23 11:30	11/1/23 14:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/26/23 11:30	11/1/23 14:34		1.015	3.81	mg/L	0.021315	0.406		
* Molybdenum, Total	10/26/23 11:30	11/1/23 14:34		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 14:34		1	9.54	mg/L				
* Silicon, Total	10/26/23 11:30	11/1/23 14:34		1.015	4.46	mg/L	0.02030	0.25375		
* Sodium, Total	10/26/23 11:30	11/1/23 14:34		1.015	29.8	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	10/26/23 08:50	11/1/23 12:59		1.015	0.0474	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	10/26/23 08:50	11/1/23 18:16		10.15	59.1	mg/L	0.70035	4.06		
* Iron, Dissolved	10/26/23 08:50	11/1/23 19:20		101.5	53.7	mg/L	0.8120	4.06		
* Lithium, Dissolved	10/26/23 08:50	11/1/23 12:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 12:59		1.015	3.89	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 12:59		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 12:59		1	9.63	mg/L				
* Silicon, Dissolved	10/26/23 08:50	11/1/23 12:59		1.015	4.50	mg/L	0.02030	0.25375		
* Sodium, Dissolved	10/26/23 08:50	11/1/23 12:59		1.015	29.8	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	10/26/23 11:30	10/26/23 16:47		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	10/26/23 11:30	10/26/23 16:47		1.015	0.0786	mg/L	0.009135	0.05075		
* Arsenic, Total	10/26/23 11:30	10/26/23 16:47		1.015	0.0121	mg/L	0.000112	0.000203		
* Barium, Total	10/26/23 11:30	10/26/23 16:47		1.015	0.142	mg/L	0.000508	0.001015		
* Beryllium, Total	10/26/23 11:30	10/26/23 16:47		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/26/23 11:30	10/26/23 16:47		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/26/23 11:30	10/26/23 16:47		1.015	0.000295	mg/L	0.000203	0.001015	J	
* Cobalt, Total	10/26/23 11:30	10/26/23 16:47		1.015	0.000413	mg/L	0.000068	0.000203		
* Lead, Total	10/26/23 11:30	10/26/23 16:47		1.015	0.0000970	mg/L	0.000068	0.000203	J	
* Manganese, Total	10/26/23 11:30	10/26/23 16:47		1.015	0.320	mg/L	0.000152	0.001015	BB	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-3

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 13:32  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19586

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 11:30	10/26/23 16:47		1.015	0.673	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 11:30	10/26/23 16:47		1.015	0.000538	mg/L	0.000508	0.001015	J
* Thallium, Total	10/26/23 11:30	10/26/23 16:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 08:50	10/26/23 14:49		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 14:49		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 14:49		1.015	0.0126	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/26/23 08:50	10/26/23 14:49		1.015	0.146	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 14:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 14:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/26/23 08:50	10/26/23 14:49		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 14:49		1.015	0.000418	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 08:50	10/26/23 14:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 08:50	10/26/23 14:49		1.015	0.310	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/26/23 08:50	10/26/23 14:49		1.015	0.690	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 08:50	10/26/23 14:49		1.015	0.000562	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	10/26/23 08:50	10/26/23 14:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 17:14		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/14/23 23:31	11/14/23 23:31		1	0.166	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:03	10/26/23 14:03		1	0.263	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 13:52	11/3/23 15:25		1	4.52	SU		2	
* Alkalinity	11/3/23 13:52	11/3/23 15:25		1	229	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	332	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	229	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-3

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 13:32  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19586

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 10:34	10/27/23 10:34		1	11.6	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:59	10/30/23 14:59		2	21.0	mg/L	1.00	2	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:31	10/26/23 11:31		1	18.7	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	10/24/23 13:30	10/24/23 13:30			527.21	uS/cm			FA
pH	10/24/23 13:30	10/24/23 13:30			6.22	SU			FA
Temperature	10/24/23 13:30	10/24/23 13:30			23.58	C			FA
Turbidity	10/24/23 13:30	10/24/23 13:30			5.02	NTU			FA
Sulfide	10/24/23 13:30	10/24/23 13:30			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 13:32  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-3

**Laboratory ID Number:** BD19586

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19593	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0991	0.0993	0.0960	0.0850 to 0.115	99.1	70.0 to 130	0.202	20.0
BD19591	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19593	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0977	0.0987	0.0956	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BD19591	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.105	0.104	0.0977	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD19593	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.991	0.971	0.0973	0.0850 to 0.115	89.0	70.0 to 130	2.04	20.0
BD19591	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.150	0.152	0.0964	0.0850 to 0.115	98.3	70.0 to 130	1.32	20.0
BD19593	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.362	0.357	0.102	0.0850 to 0.115	102	70.0 to 130	1.39	20.0
BD19591	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.168	0.169	0.0994	0.0850 to 0.115	98.8	70.0 to 130	0.593	20.0
BD19593	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.109	0.111	0.0983	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD19591	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0984	0.102	0.100	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BD19593	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	3.15	3.13	0.932	0.850 to 1.15	93.0	70.0 to 130	0.637	20.0
BD19591	Boron, Total	mg/L	-0.000014	0.0650	1.00	2.01	2.00	0.935	0.850 to 1.15	94.0	70.0 to 130	0.499	20.0
BD19593	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.0998	0.102	0.104	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BD19591	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0928	0.0934	0.0908	0.0850 to 0.115	92.8	70.0 to 130	0.644	20.0
BD19593	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	151	150	5.00	4.25 to 5.75	60.0	70.0 to 130	0.664	20.0
BD19591	Calcium, Total	mg/L	-0.0387	0.152	5.00	74.6	82.7	4.87	4.25 to 5.75	-58.0	70.0 to 130	10.3	20.0
BD19590	Chloride	mg/L	0.0716	1.00	10.0	20.5	20.2	10.1	9.00 to 11.0	98.0	80.0 to 120	1.47	20.0
BD19593	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.100	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD19591	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19593	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.110	0.110	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19591	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.126	0.127	0.105	0.0850 to 0.115	104	70.0 to 130	0.791	20.0
BD19593	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	36.9	35.4	0.193	0.170 to 0.230	-250	70.0 to 130	4.15	20.0
BD19591	Iron, Total	mg/L	0.0463	0.0176	0.2	14.7	16.2	0.195	0.170 to 0.230	-600	70.0 to 130	9.71	20.0
BD19593	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0954	0.101	0.105	0.0850 to 0.115	95.4	70.0 to 130	5.70	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 13:32  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-3

**Laboratory ID Number:** BD19586

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19591	Lead, Total	mg/L	0.000063	0.000147	0.100	0.106	0.102	0.100	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BD19593	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.854	0.849	0.192	0.170 to 0.230	95.5	70.0 to 130	0.587	20.0
BD19591	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.469	0.465	0.197	0.170 to 0.230	96.5	70.0 to 130	0.857	20.0
BD19593	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	34.4	34.2	4.89	4.25 to 5.75	94.0	70.0 to 130	0.583	20.0
BD19591	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	16.8	16.8	4.90	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD19593	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	1.81	1.75	0.104	0.0850 to 0.115	60.0	70.0 to 130	3.37	20.0
BD19591	Manganese, Total	mg/L	0.000806	0.00033	0.100	2.80	2.76	0.105	0.0850 to 0.115	130	70.0 to 130	1.44	20.0
BD19586	Mercury, Total by CVAA	mg/L	7.130E-06	0.000500	0.004	0.00339	0.00339	0.00378	0.00340 to 0.00460	84.8	70.0 to 130	0.00	20.0
BD19593	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.244	0.243	0.197	0.170 to 0.230	101	70.0 to 130	0.411	20.0
BD19591	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.202	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD19593	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	23.9	23.3	9.44	8.50 to 11.5	104	70.0 to 130	2.54	20.0
BD19591	Potassium, Total	mg/L	-0.00589	0.367	10.0	15.1	15.0	9.83	8.50 to 11.5	97.5	70.0 to 130	0.664	20.0
BD19593	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19591	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.101	0.101	0.0988	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19593	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	9.43	9.39	0.968	0.850 to 1.15	86.0	70.0 to 130	0.425	20.0
BD19591	Silicon, Total	mg/L	-0.00025	0.0440	1.00	8.98	8.95	0.971	0.850 to 1.15	83.0	70.0 to 130	0.335	20.0
BD19593	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	54.1	53.4	4.90	4.25 to 5.75	76.0	70.0 to 130	1.30	20.0
BD19591	Sodium, Total	mg/L	0.00116	0.0880	5.00	43.1	48.1	4.92	4.25 to 5.75	16.0	70.0 to 130	11.0	20.0
BD19589	Sulfate	mg/L	0.286	2.0	20.0	19.6	19.8	20.1	18.0 to 22.0	91.4	80.0 to 120	1.02	20.0
BD19593	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.0980	0.103	0.108	0.0850 to 0.115	98.0	70.0 to 130	4.98	20.0
BD19591	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.108	0.104	0.102	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD19591	Total Organic Carbon	mg/L	0.122	1.00	10.0	13.8	13.9	23.8		96.0	80.0 to 120	0.722	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 13:32  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-3

**Laboratory ID Number:** BD19586

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19592	Alkalinity	mg CaCO3/L					206	51.1	45.0 to 55.0			1.45	10.0
BD19590	Fluoride	mg/L	0.000000	0.0200	2.00	2.31	0.197	2.07	1.80 to 2.20	105	80.0 to 120	5.43	20.0
BD19591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.96	0.082	1.82	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD19594	Solids, Dissolved	mg/L	0.0000	25.0			652	47.0	40.0 to 60.0			1.52	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - PZ-4

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 14:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19587

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 11:30	11/1/23 14:37		1.015	0.250	mg/L	0.030000	0.1015	
* Calcium, Total	10/26/23 11:30	11/1/23 19:51		10.15	161	mg/L	0.70035	4.06	
* Iron, Total	10/26/23 11:30	11/1/23 20:54		101.5	94.4	mg/L	0.8120	4.06	BB
* Lithium, Total	10/26/23 11:30	11/1/23 14:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/26/23 11:30	11/1/23 14:37		1.015	30.3	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 11:30	11/1/23 14:37		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 14:37		1	10.3	mg/L			
* Silicon, Total	10/26/23 11:30	11/1/23 14:37		1.015	4.83	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 11:30	11/1/23 14:37		1.015	16.9	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>							
* Boron, Dissolved	10/26/23 08:50	11/1/23 13:02		1.015	0.268	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/26/23 08:50	11/1/23 18:20		10.15	152	mg/L	0.70035	4.06	
* Iron, Dissolved	10/26/23 08:50	11/1/23 19:23		101.5	98.9	mg/L	0.8120	4.06	
* Lithium, Dissolved	10/26/23 08:50	11/1/23 13:02		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 13:02		1.015	30.6	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 13:02		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 13:02		1	10.3	mg/L			
* Silicon, Dissolved	10/26/23 08:50	11/1/23 13:02		1.015	4.83	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 08:50	11/1/23 13:02		1.015	17.1	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 11:30	10/26/23 16:51		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 11:30	10/26/23 16:51		1.015	0.451	mg/L	0.009135	0.05075	
* Arsenic, Total	10/26/23 11:30	10/26/23 16:51		1.015	0.00252	mg/L	0.000112	0.000203	
* Barium, Total	10/26/23 11:30	10/26/23 16:51		1.015	0.0608	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 11:30	10/26/23 16:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 11:30	10/26/23 16:51		1.015	0.000158	mg/L	0.000068	0.000203	J
* Chromium, Total	10/26/23 11:30	10/26/23 16:51		1.015	0.000211	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/26/23 11:30	10/26/23 16:51		1.015	0.536	mg/L	0.000068	0.000203	
* Lead, Total	10/26/23 11:30	10/26/23 16:51		1.015	0.000414	mg/L	0.000068	0.000203	
* Manganese, Total	10/26/23 11:30	10/30/23 13:52		10.15	9.87	mg/L	0.001522	0.01015	BB

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - PZ-4

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 14:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19587

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 11:30	10/26/23 16:51		1.015	5.81	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 11:30	10/26/23 16:51		1.015	0.00198	mg/L	0.000508	0.001015	
* Thallium, Total	10/26/23 11:30	10/26/23 16:51		1.015	0.000124	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 08:50	10/26/23 14:53		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 14:53		1.015	0.345	mg/L	0.009135	0.05075	
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 14:53		1.015	0.00241	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/26/23 08:50	10/26/23 14:53		1.015	0.0571	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 14:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 14:53		1.015	0.000221	mg/L	0.000068	0.000203	
* Chromium, Dissolved	10/26/23 08:50	10/26/23 14:53		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 14:53		1.015	0.554	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 08:50	10/26/23 14:53		1.015	0.000402	mg/L	0.000068	0.000203	
* Manganese, Dissolved	10/26/23 08:50	10/30/23 12:34		10.15	10.2	mg/L	0.001522	0.01015	
* Potassium, Dissolved	10/26/23 08:50	10/26/23 14:53		1.015	5.91	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 08:50	10/26/23 14:53		1.015	0.00184	mg/L	0.000508	0.001015	
* Thallium, Dissolved	10/26/23 08:50	10/26/23 14:53		1.015	0.000128	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 14:58		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/14/23 23:55	11/14/23 23:55		1	0.0737	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:05	10/26/23 14:05		1	0.520	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/7/23 10:15	11/7/23 12:00		1	4.50	SU		2	
* Alkalinity	11/7/23 10:15	11/7/23 12:00		1	24.5	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	1050	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/7/23 10:15	11/7/23 12:00		1	24.5	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/7/23 10:15	11/7/23 12:00		1	Not Detected	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - PZ-4

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 14:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19587

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 10:49	10/27/23 10:49		1	2.19	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:49	10/30/23 14:49		1	7.95	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:42	10/26/23 11:42		40	607	mg/L	24.0	80	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	10/24/23 14:44	10/24/23 14:44			1074.15	uS/cm			FA
pH	10/24/23 14:44	10/24/23 14:44			5.44	SU			FA
Temperature	10/24/23 14:44	10/24/23 14:44			24.04	C			FA
Turbidity	10/24/23 14:44	10/24/23 14:44			3.07	NTU			FA
Sulfide	10/24/23 14:44	10/24/23 14:44			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 14:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - PZ-4

**Laboratory ID Number:** BD19587

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19593	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0991	0.0993	0.0960	0.0850 to 0.115	99.1	70.0 to 130	0.202	20.0
BD19591	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19593	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0977	0.0987	0.0956	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BD19591	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.105	0.104	0.0977	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD19593	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.991	0.971	0.0973	0.0850 to 0.115	89.0	70.0 to 130	2.04	20.0
BD19591	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.150	0.152	0.0964	0.0850 to 0.115	98.3	70.0 to 130	1.32	20.0
BD19593	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.362	0.357	0.102	0.0850 to 0.115	102	70.0 to 130	1.39	20.0
BD19591	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.168	0.169	0.0994	0.0850 to 0.115	98.8	70.0 to 130	0.593	20.0
BD19593	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.109	0.111	0.0983	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD19591	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0984	0.102	0.100	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BD19593	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	3.15	3.13	0.932	0.850 to 1.15	93.0	70.0 to 130	0.637	20.0
BD19591	Boron, Total	mg/L	-0.000014	0.0650	1.00	2.01	2.00	0.935	0.850 to 1.15	94.0	70.0 to 130	0.499	20.0
BD19593	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.0998	0.102	0.104	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BD19591	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0928	0.0934	0.0908	0.0850 to 0.115	92.8	70.0 to 130	0.644	20.0
BD19593	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	151	150	5.00	4.25 to 5.75	60.0	70.0 to 130	0.664	20.0
BD19591	Calcium, Total	mg/L	-0.0387	0.152	5.00	74.6	82.7	4.87	4.25 to 5.75	-58.0	70.0 to 130	10.3	20.0
BD19590	Chloride	mg/L	0.0716	1.00	10.0	20.5	20.2	10.1	9.00 to 11.0	98.0	80.0 to 120	1.47	20.0
BD19593	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.100	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD19591	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19593	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.110	0.110	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19591	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.126	0.127	0.105	0.0850 to 0.115	104	70.0 to 130	0.791	20.0
BD19593	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	36.9	35.4	0.193	0.170 to 0.230	-250	70.0 to 130	4.15	20.0
BD19591	Iron, Total	mg/L	0.0463	0.0176	0.2	14.7	16.2	0.195	0.170 to 0.230	-600	70.0 to 130	9.71	20.0
BD19593	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0954	0.101	0.105	0.0850 to 0.115	95.4	70.0 to 130	5.70	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 14:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - PZ-4

**Laboratory ID Number:** BD19587

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19591	Lead, Total	mg/L	0.000063	0.000147	0.100	0.106	0.102	0.100	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BD19593	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.854	0.849	0.192	0.170 to 0.230	95.5	70.0 to 130	0.587	20.0
BD19591	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.469	0.465	0.197	0.170 to 0.230	96.5	70.0 to 130	0.857	20.0
BD19593	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	34.4	34.2	4.89	4.25 to 5.75	94.0	70.0 to 130	0.583	20.0
BD19591	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	16.8	16.8	4.90	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD19593	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	1.81	1.75	0.104	0.0850 to 0.115	60.0	70.0 to 130	3.37	20.0
BD19591	Manganese, Total	mg/L	0.000806	0.00033	0.100	2.80	2.76	0.105	0.0850 to 0.115	130	70.0 to 130	1.44	20.0
BD19596	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00382	0.00383	0.00387	0.00340 to 0.00460	95.5	70.0 to 130	0.261	20.0
BD19593	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.244	0.243	0.197	0.170 to 0.230	101	70.0 to 130	0.411	20.0
BD19591	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.202	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD19593	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	23.9	23.3	9.44	8.50 to 11.5	104	70.0 to 130	2.54	20.0
BD19591	Potassium, Total	mg/L	-0.00589	0.367	10.0	15.1	15.0	9.83	8.50 to 11.5	97.5	70.0 to 130	0.664	20.0
BD19593	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19591	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.101	0.101	0.0988	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19593	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	9.43	9.39	0.968	0.850 to 1.15	86.0	70.0 to 130	0.425	20.0
BD19591	Silicon, Total	mg/L	-0.00025	0.0440	1.00	8.98	8.95	0.971	0.850 to 1.15	83.0	70.0 to 130	0.335	20.0
BD19593	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	54.1	53.4	4.90	4.25 to 5.75	76.0	70.0 to 130	1.30	20.0
BD19591	Sodium, Total	mg/L	0.00116	0.0880	5.00	43.1	48.1	4.92	4.25 to 5.75	16.0	70.0 to 130	11.0	20.0
BD19589	Sulfate	mg/L	0.286	2.0	20.0	19.6	19.8	20.1	18.0 to 22.0	91.4	80.0 to 120	1.02	20.0
BD19593	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.0980	0.103	0.108	0.0850 to 0.115	98.0	70.0 to 130	4.98	20.0
BD19591	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.108	0.104	0.102	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD19591	Total Organic Carbon	mg/L	0.122	1.00	10.0	13.8	13.9	23.8		96.0	80.0 to 120	0.722	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 14:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - PZ-4

**Laboratory ID Number:** BD19587

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19763	Alkalinity	mg CaCO3/L					44.0	51.6	45.0 to 55.0			0.227	10.0
BD19590	Fluoride	mg/L	0.000000	0.0200	2.00	2.31	0.197	2.07	1.80 to 2.20	105	80.0 to 120	5.43	20.0
BD19591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.96	0.082	1.82	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD19594	Solids, Dissolved	mg/L	0.0000	25.0			652	47.0	40.0 to 60.0			1.52	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - PZ-4 Dup

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 14:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19588

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	10/26/23 11:30	11/1/23 14:40		1.015	0.261	mg/L	0.030000	0.1015		
* Calcium, Total	10/26/23 11:30	11/1/23 19:54		10.15	167	mg/L	0.70035	4.06		
* Iron, Total	10/26/23 11:30	11/1/23 20:58		101.5	95.6	mg/L	0.8120	4.06	BB	
* Lithium, Total	10/26/23 11:30	11/1/23 14:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/26/23 11:30	11/1/23 14:40		1.015	30.8	mg/L	0.021315	0.406		
* Molybdenum, Total	10/26/23 11:30	11/1/23 14:40		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 14:40		1	10.4	mg/L				
* Silicon, Total	10/26/23 11:30	11/1/23 14:40		1.015	4.86	mg/L	0.02030	0.25375		
* Sodium, Total	10/26/23 11:30	11/1/23 14:40		1.015	17.3	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	10/26/23 08:50	11/1/23 13:05		1.015	0.268	mg/L	0.030000	0.1015		
* Calcium, Dissolved	10/26/23 08:50	11/1/23 18:23		10.15	179	mg/L	0.70035	4.06		
* Iron, Dissolved	10/26/23 08:50	11/1/23 19:26		101.5	100	mg/L	0.8120	4.06		
* Lithium, Dissolved	10/26/23 08:50	11/1/23 13:05		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 13:05		1.015	30.9	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 13:05		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 13:05		1	10.4	mg/L				
* Silicon, Dissolved	10/26/23 08:50	11/1/23 13:05		1.015	4.87	mg/L	0.02030	0.25375		
* Sodium, Dissolved	10/26/23 08:50	11/1/23 13:05		1.015	17.4	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	10/26/23 11:30	10/26/23 16:54		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	10/26/23 11:30	10/26/23 16:54		1.015	0.426	mg/L	0.009135	0.05075		
* Arsenic, Total	10/26/23 11:30	10/26/23 16:54		1.015	0.00248	mg/L	0.000112	0.000203		
* Barium, Total	10/26/23 11:30	10/26/23 16:54		1.015	0.0614	mg/L	0.000508	0.001015		
* Beryllium, Total	10/26/23 11:30	10/26/23 16:54		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/26/23 11:30	10/26/23 16:54		1.015	0.000171	mg/L	0.000068	0.000203	J	
* Chromium, Total	10/26/23 11:30	10/26/23 16:54		1.015	0.000208	mg/L	0.000203	0.001015	J	
* Cobalt, Total	10/26/23 11:30	10/26/23 16:54		1.015	0.534	mg/L	0.000068	0.000203		
* Lead, Total	10/26/23 11:30	10/26/23 16:54		1.015	0.000426	mg/L	0.000068	0.000203		
* Manganese, Total	10/26/23 11:30	10/30/23 13:56		10.15	10.3	mg/L	0.001522	0.01015	BB	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - PZ-4 Dup

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 14:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19588

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 11:30	10/26/23 16:54		1.015	5.75	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 11:30	10/26/23 16:54		1.015	0.00193	mg/L	0.000508	0.001015	
* Thallium, Total	10/26/23 11:30	10/26/23 16:54		1.015	0.000141	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 08:50	10/26/23 14:56		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 14:56		1.015	0.339	mg/L	0.009135	0.05075	
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 14:56		1.015	0.00236	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/26/23 08:50	10/26/23 14:56		1.015	0.0577	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 14:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 14:56		1.015	0.000214	mg/L	0.000068	0.000203	
* Chromium, Dissolved	10/26/23 08:50	10/26/23 14:56		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 14:56		1.015	0.557	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 08:50	10/26/23 14:56		1.015	0.000397	mg/L	0.000068	0.000203	
* Manganese, Dissolved	10/26/23 08:50	10/30/23 12:37		10.15	10.6	mg/L	0.001522	0.01015	
* Potassium, Dissolved	10/26/23 08:50	10/26/23 14:56		1.015	6.00	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 08:50	10/26/23 14:56		1.015	0.00182	mg/L	0.000508	0.001015	
* Thallium, Dissolved	10/26/23 08:50	10/26/23 14:56		1.015	0.000131	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:00		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 00:18	11/15/23 00:18		1	0.0720	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:07	10/26/23 14:07		1	0.467	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/7/23 10:15	11/7/23 12:00		1	4.31	SU		2	
* Alkalinity	11/7/23 10:15	11/7/23 12:00		1	29.8	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	1070	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/7/23 10:15	11/7/23 12:00		1	29.8	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/7/23 10:15	11/7/23 12:00		1	Not Detected	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - PZ-4 Dup

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 14:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19588

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 11:02	10/27/23 11:02		1	2.05	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:50	10/30/23 14:50		1	7.86	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:43	10/26/23 11:43		40	633	mg/L	24.0	80	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	10/24/23 14:44	10/24/23 14:44			1074.15	uS/cm			FA
pH	10/24/23 14:44	10/24/23 14:44			5.44	SU			FA
Temperature	10/24/23 14:44	10/24/23 14:44			24.04	C			FA
Turbidity	10/24/23 14:44	10/24/23 14:44			3.07	NTU			FA
Sulfide	10/24/23 14:44	10/24/23 14:44			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 14:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - PZ-4 Dup

**Laboratory ID Number:** BD19588

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19593	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0991	0.0993	0.0960	0.0850 to 0.115	99.1	70.0 to 130	0.202	20.0
BD19591	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19593	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0977	0.0987	0.0956	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BD19591	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.105	0.104	0.0977	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD19593	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.991	0.971	0.0973	0.0850 to 0.115	89.0	70.0 to 130	2.04	20.0
BD19591	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.150	0.152	0.0964	0.0850 to 0.115	98.3	70.0 to 130	1.32	20.0
BD19593	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.362	0.357	0.102	0.0850 to 0.115	102	70.0 to 130	1.39	20.0
BD19591	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.168	0.169	0.0994	0.0850 to 0.115	98.8	70.0 to 130	0.593	20.0
BD19593	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.109	0.111	0.0983	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD19591	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0984	0.102	0.100	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BD19593	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	3.15	3.13	0.932	0.850 to 1.15	93.0	70.0 to 130	0.637	20.0
BD19591	Boron, Total	mg/L	-0.000014	0.0650	1.00	2.01	2.00	0.935	0.850 to 1.15	94.0	70.0 to 130	0.499	20.0
BD19593	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.0998	0.102	0.104	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BD19591	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0928	0.0934	0.0908	0.0850 to 0.115	92.8	70.0 to 130	0.644	20.0
BD19593	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	151	150	5.00	4.25 to 5.75	60.0	70.0 to 130	0.664	20.0
BD19591	Calcium, Total	mg/L	-0.0387	0.152	5.00	74.6	82.7	4.87	4.25 to 5.75	-58.0	70.0 to 130	10.3	20.0
BD19590	Chloride	mg/L	0.0716	1.00	10.0	20.5	20.2	10.1	9.00 to 11.0	98.0	80.0 to 120	1.47	20.0
BD19593	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.100	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD19591	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19593	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.110	0.110	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19591	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.126	0.127	0.105	0.0850 to 0.115	104	70.0 to 130	0.791	20.0
BD19593	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	36.9	35.4	0.193	0.170 to 0.230	-250	70.0 to 130	4.15	20.0
BD19591	Iron, Total	mg/L	0.0463	0.0176	0.2	14.7	16.2	0.195	0.170 to 0.230	-600	70.0 to 130	9.71	20.0
BD19593	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0954	0.101	0.105	0.0850 to 0.115	95.4	70.0 to 130	5.70	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 14:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - PZ-4 Dup

**Laboratory ID Number:** BD19588

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19591	Lead, Total	mg/L	0.000063	0.000147	0.100	0.106	0.102	0.100	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BD19593	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.854	0.849	0.192	0.170 to 0.230	95.5	70.0 to 130	0.587	20.0
BD19591	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.469	0.465	0.197	0.170 to 0.230	96.5	70.0 to 130	0.857	20.0
BD19593	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	34.4	34.2	4.89	4.25 to 5.75	94.0	70.0 to 130	0.583	20.0
BD19591	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	16.8	16.8	4.90	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD19593	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	1.81	1.75	0.104	0.0850 to 0.115	60.0	70.0 to 130	3.37	20.0
BD19591	Manganese, Total	mg/L	0.000806	0.00033	0.100	2.80	2.76	0.105	0.0850 to 0.115	130	70.0 to 130	1.44	20.0
BD19596	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00382	0.00383	0.00387	0.00340 to 0.00460	95.5	70.0 to 130	0.261	20.0
BD19593	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.244	0.243	0.197	0.170 to 0.230	101	70.0 to 130	0.411	20.0
BD19591	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.202	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD19593	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	23.9	23.3	9.44	8.50 to 11.5	104	70.0 to 130	2.54	20.0
BD19591	Potassium, Total	mg/L	-0.00589	0.367	10.0	15.1	15.0	9.83	8.50 to 11.5	97.5	70.0 to 130	0.664	20.0
BD19593	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19591	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.101	0.101	0.0988	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19593	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	9.43	9.39	0.968	0.850 to 1.15	86.0	70.0 to 130	0.425	20.0
BD19591	Silicon, Total	mg/L	-0.00025	0.0440	1.00	8.98	8.95	0.971	0.850 to 1.15	83.0	70.0 to 130	0.335	20.0
BD19593	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	54.1	53.4	4.90	4.25 to 5.75	76.0	70.0 to 130	1.30	20.0
BD19591	Sodium, Total	mg/L	0.00116	0.0880	5.00	43.1	48.1	4.92	4.25 to 5.75	16.0	70.0 to 130	11.0	20.0
BD19589	Sulfate	mg/L	0.286	2.0	20.0	19.6	19.8	20.1	18.0 to 22.0	91.4	80.0 to 120	1.02	20.0
BD19593	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.0980	0.103	0.108	0.0850 to 0.115	98.0	70.0 to 130	4.98	20.0
BD19591	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.108	0.104	0.102	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD19591	Total Organic Carbon	mg/L	0.122	1.00	10.0	13.8	13.9	23.8		96.0	80.0 to 120	0.722	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 14:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - PZ-4 Dup

**Laboratory ID Number:** BD19588

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19763	Alkalinity	mg CaCO3/L					44.0	51.6	45.0 to 55.0			0.227	10.0
BD19590	Fluoride	mg/L	0.000000	0.0200	2.00	2.31	0.197	2.07	1.80 to 2.20	105	80.0 to 120	5.43	20.0
BD19591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.96	0.082	1.82	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD19594	Solids, Dissolved	mg/L	0.0000	25.0			652	47.0	40.0 to 60.0			1.52	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-5

**Location Code:** WMWGREAPFB  
**Collected:** 10/24/23 15:30  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19589

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 11:30	11/1/23 14:43		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/26/23 11:30	11/1/23 14:43		1.015	Not Detected	mg/L	0.070035	0.406	U
* Lithium, Total	10/26/23 11:30	11/1/23 14:43		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/26/23 11:30	11/1/23 14:43		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	10/26/23 11:30	11/1/23 14:43		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 14:43		1	Not Detected	mg/L			
* Silicon, Total	10/26/23 11:30	11/1/23 14:43		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	10/26/23 11:30	11/1/23 14:43		1.015	Not Detected	mg/L	0.04060	0.406	U
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Iron, Total	11/7/23 07:18	11/14/23 11:50		1.015	Not Detected	mg/L	0.008120	0.0406	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 11:30	10/26/23 16:58		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 11:30	10/26/23 16:58		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/26/23 11:30	10/26/23 16:58		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	10/26/23 11:30	10/26/23 16:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	10/26/23 11:30	10/26/23 16:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 11:30	10/26/23 16:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/26/23 11:30	10/26/23 16:58		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/26/23 11:30	10/26/23 16:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/26/23 11:30	10/26/23 16:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/31/23 15:20	11/2/23 15:19		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	10/26/23 11:30	10/26/23 16:58		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/26/23 11:30	10/26/23 16:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 11:30	10/26/23 16:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:02		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 01:28	11/15/23 01:28		1	Not Detected	mg/L	0.02	0.04	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:09	10/26/23 14:09		1	Not Detected	mg/L as N	0.20	0.3	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-5

**Location Code:** WMWGREAPFB  
**Collected:** 10/24/23 15:30  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19589

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	Not Detected	mg/L		25	U
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 11:16	10/27/23 11:16		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500CI E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:51	10/30/23 14:51		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:34	10/26/23 11:34		1	1.31	mg/L	0.6	2	J

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 10/24/23 15:30

**Customer ID:**

**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond Field Blank-5

**Laboratory ID Number:** BD19589

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19591	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19591	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.105	0.104	0.0977	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD19591	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.150	0.152	0.0964	0.0850 to 0.115	98.3	70.0 to 130	1.32	20.0
BD19591	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.168	0.169	0.0994	0.0850 to 0.115	98.8	70.0 to 130	0.593	20.0
BD19591	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0984	0.102	0.100	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BD19591	Boron, Total	mg/L	-0.000014	0.0650	1.00	2.01	2.00	0.935	0.850 to 1.15	94.0	70.0 to 130	0.499	20.0
BD19591	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0928	0.0934	0.0908	0.0850 to 0.115	92.8	70.0 to 130	0.644	20.0
BD19591	Calcium, Total	mg/L	-0.0387	0.152	5.00	74.6	82.7	4.87	4.25 to 5.75	-58.0	70.0 to 130	10.3	20.0
BD19590	Chloride	mg/L	0.0716	1.00	10.0	20.5	20.2	10.1	9.00 to 11.0	98.0	80.0 to 120	1.47	20.0
BD19591	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19591	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.126	0.127	0.105	0.0850 to 0.115	104	70.0 to 130	0.791	20.0
BD19600	Iron, Total	mg/L	0.00152	0.0176	0.2	0.704	0.703	0.215	0.170 to 0.230	102	70.0 to 130	0.142	20.0
BD19591	Lead, Total	mg/L	0.0000063	0.000147	0.100	0.106	0.102	0.100	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BD19591	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.469	0.465	0.197	0.170 to 0.230	96.5	70.0 to 130	0.857	20.0
BD19591	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	16.8	16.8	4.90	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD19599	Manganese, Total	mg/L	0.0000025	0.00033	0.100	0.111	0.108	0.109	0.0850 to 0.115	108	70.0 to 130	2.74	20.0
BD19596	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00382	0.00383	0.00387	0.00340 to 0.00460	95.5	70.0 to 130	0.261	20.0
BD19591	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.202	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD19591	Potassium, Total	mg/L	-0.00589	0.367	10.0	15.1	15.0	9.83	8.50 to 11.5	97.5	70.0 to 130	0.664	20.0
BD19591	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.101	0.101	0.0988	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19591	Silicon, Total	mg/L	-0.00025	0.0440	1.00	8.98	8.95	0.971	0.850 to 1.15	83.0	70.0 to 130	0.335	20.0
BD19591	Sodium, Total	mg/L	0.00116	0.0880	5.00	43.1	48.1	4.92	4.25 to 5.75	16.0	70.0 to 130	11.0	20.0
BD19589	Sulfate	mg/L	0.286	2.0	20.0	19.6	19.8	20.1	18.0 to 22.0	91.4	80.0 to 120	1.02	20.0
BD19591	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.108	0.104	0.102	0.0850 to 0.115	108	70.0 to 130	3.77	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB  
**Sample Date:** 10/24/23 15:30  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond Field Blank-5

**Laboratory ID Number:** BD19589

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BD19591	Total Organic Carbon	mg/L	0.122	1.00	10.0	13.8	13.9	23.8		96.0	80.0 to 120	0.722	20.0

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**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 10/24/23 15:30

**Customer ID:**

**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond Field Blank-5

**Laboratory ID Number:** BD19589

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19590	Fluoride	mg/L	0.000000	0.0200	2.00	2.31	0.197	2.07	1.80 to 2.20	105	80.0 to 120	5.43	20.0
BD19591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.96	0.082	1.82	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD19594	Solids, Dissolved	mg/L	0.0000	25.0			652	47.0	40.0 to 60.0			1.52	10.0

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**Comments:**



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-5

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 16:08  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19590

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 11:30	11/1/23 14:46		1.015	0.552	mg/L	0.030000	0.1015	
* Calcium, Total	10/26/23 11:30	11/1/23 19:58		10.15	101	mg/L	0.70035	4.06	
* Iron, Total	10/26/23 11:30	11/1/23 19:58		10.15	30.1	mg/L	0.08120	0.406	BB
* Lithium, Total	10/26/23 11:30	11/1/23 14:46		1.015	0.0814	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/26/23 11:30	11/1/23 14:46		1.015	16.7	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 11:30	11/1/23 14:46		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 14:46		1	16.8	mg/L			
* Silicon, Total	10/26/23 11:30	11/1/23 14:46		1.015	7.83	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 11:30	11/1/23 14:46		1.015	21.0	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/26/23 08:50	11/1/23 13:08		1.015	0.552	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/26/23 08:50	11/1/23 18:26		10.15	97.2	mg/L	0.70035	4.06	
* Iron, Dissolved	10/26/23 08:50	11/1/23 18:26		10.15	28.8	mg/L	0.08120	0.406	
* Lithium, Dissolved	10/26/23 08:50	11/1/23 13:08		1.015	0.0801	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 13:08		1.015	16.8	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 13:08		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 13:08		1	16.8	mg/L			
* Silicon, Dissolved	10/26/23 08:50	11/1/23 13:08		1.015	7.84	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 08:50	11/1/23 13:08		1.015	21.0	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 11:30	10/26/23 17:02		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 11:30	10/26/23 17:02		1.015	0.137	mg/L	0.009135	0.05075	
* Arsenic, Total	10/26/23 11:30	10/26/23 17:02		1.015	0.382	mg/L	0.000112	0.000203	
* Barium, Total	10/26/23 11:30	10/26/23 17:02		1.015	0.142	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 11:30	10/26/23 17:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 11:30	10/26/23 17:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/26/23 11:30	10/26/23 17:02		1.015	0.000360	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/26/23 11:30	10/26/23 17:02		1.015	0.00820	mg/L	0.000068	0.000203	
* Lead, Total	10/26/23 11:30	10/26/23 17:02		1.015	0.000118	mg/L	0.000068	0.000203	J
* Manganese, Total	10/26/23 11:30	10/30/23 13:59		5.075	1.37	mg/L	0.000761	0.005075	BB

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-5

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 16:08  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19590

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 11:30	10/26/23 17:02		1.015	6.10	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 11:30	10/26/23 17:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 11:30	10/26/23 17:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 08:50	10/26/23 15:00		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 15:00		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 15:00		1.015	0.372	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/26/23 08:50	10/26/23 15:00		1.015	0.132	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 15:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 15:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/26/23 08:50	10/26/23 15:00		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 15:00		1.015	0.00780	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 08:50	10/26/23 15:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 08:50	10/30/23 12:41		5.075	1.44	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/26/23 08:50	10/26/23 15:00		1.015	6.03	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 08:50	10/26/23 15:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 08:50	10/26/23 15:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:05		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 01:52	11/15/23 01:52		1	0.208	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:10	10/26/23 14:10		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/7/23 10:15	11/7/23 12:00		1	4.51	SU		2	
* Alkalinity	11/7/23 10:15	11/7/23 12:00		1	195	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	462	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/7/23 10:15	11/7/23 12:00		1	194	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/7/23 10:15	11/7/23 12:00		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-5

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 16:08  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19590

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 11:32	10/27/23 11:32		1	2.31	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:53	10/30/23 14:53		1	10.7	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 12:08	10/26/23 12:08		8	150	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	10/24/23 16:07	10/24/23 16:07			632.93	uS/cm			FA
pH	10/24/23 16:07	10/24/23 16:07			6.61	SU			FA
Temperature	10/24/23 16:07	10/24/23 16:07			22.00	C			FA
Turbidity	10/24/23 16:07	10/24/23 16:07			8.93	NTU			FA
Sulfide	10/24/23 16:07	10/24/23 16:07			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 16:08  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-5

**Laboratory ID Number:** BD19590

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD19593	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0991	0.0993	0.0960	0.0850 to 0.115	99.1	70.0 to 130	0.202	20.0
BD19591	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19593	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0977	0.0987	0.0956	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BD19591	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.105	0.104	0.0977	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD19593	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.991	0.971	0.0973	0.0850 to 0.115	89.0	70.0 to 130	2.04	20.0
BD19591	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.150	0.152	0.0964	0.0850 to 0.115	98.3	70.0 to 130	1.32	20.0
BD19593	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.362	0.357	0.102	0.0850 to 0.115	102	70.0 to 130	1.39	20.0
BD19591	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.168	0.169	0.0994	0.0850 to 0.115	98.8	70.0 to 130	0.593	20.0
BD19593	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.109	0.111	0.0983	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD19591	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0984	0.102	0.100	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BD19593	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	3.15	3.13	0.932	0.850 to 1.15	93.0	70.0 to 130	0.637	20.0
BD19591	Boron, Total	mg/L	-0.000014	0.0650	1.00	2.01	2.00	0.935	0.850 to 1.15	94.0	70.0 to 130	0.499	20.0
BD19593	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.0998	0.102	0.104	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BD19591	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0928	0.0934	0.0908	0.0850 to 0.115	92.8	70.0 to 130	0.644	20.0
BD19593	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	151	150	5.00	4.25 to 5.75	60.0	70.0 to 130	0.664	20.0
BD19591	Calcium, Total	mg/L	-0.0387	0.152	5.00	74.6	82.7	4.87	4.25 to 5.75	-58.0	70.0 to 130	10.3	20.0
BD19590	Chloride	mg/L	0.0716	1.00	10.0	20.5	20.2	10.1	9.00 to 11.0	98.0	80.0 to 120	1.47	20.0
BD19593	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.100	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD19591	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19593	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.110	0.110	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19591	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.126	0.127	0.105	0.0850 to 0.115	104	70.0 to 130	0.791	20.0
BD19593	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	36.9	35.4	0.193	0.170 to 0.230	-250	70.0 to 130	4.15	20.0
BD19591	Iron, Total	mg/L	0.0463	0.0176	0.2	14.7	16.2	0.195	0.170 to 0.230	-600	70.0 to 130	9.71	20.0
BD19593	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0954	0.101	0.105	0.0850 to 0.115	95.4	70.0 to 130	5.70	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 16:08  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-5

**Laboratory ID Number:** BD19590

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19591	Lead, Total	mg/L	0.000063	0.000147	0.100	0.106	0.102	0.100	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BD19593	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.854	0.849	0.192	0.170 to 0.230	95.5	70.0 to 130	0.587	20.0
BD19591	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.469	0.465	0.197	0.170 to 0.230	96.5	70.0 to 130	0.857	20.0
BD19593	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	34.4	34.2	4.89	4.25 to 5.75	94.0	70.0 to 130	0.583	20.0
BD19591	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	16.8	16.8	4.90	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD19593	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	1.81	1.75	0.104	0.0850 to 0.115	60.0	70.0 to 130	3.37	20.0
BD19591	Manganese, Total	mg/L	0.000806	0.00033	0.100	2.80	2.76	0.105	0.0850 to 0.115	130	70.0 to 130	1.44	20.0
BD19596	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00382	0.00383	0.00387	0.00340 to 0.00460	95.5	70.0 to 130	0.261	20.0
BD19593	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.244	0.243	0.197	0.170 to 0.230	101	70.0 to 130	0.411	20.0
BD19591	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.202	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD19593	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	23.9	23.3	9.44	8.50 to 11.5	104	70.0 to 130	2.54	20.0
BD19591	Potassium, Total	mg/L	-0.00589	0.367	10.0	15.1	15.0	9.83	8.50 to 11.5	97.5	70.0 to 130	0.664	20.0
BD19593	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19591	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.101	0.101	0.0988	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19593	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	9.43	9.39	0.968	0.850 to 1.15	86.0	70.0 to 130	0.425	20.0
BD19591	Silicon, Total	mg/L	-0.00025	0.0440	1.00	8.98	8.95	0.971	0.850 to 1.15	83.0	70.0 to 130	0.335	20.0
BD19593	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	54.1	53.4	4.90	4.25 to 5.75	76.0	70.0 to 130	1.30	20.0
BD19591	Sodium, Total	mg/L	0.00116	0.0880	5.00	43.1	48.1	4.92	4.25 to 5.75	16.0	70.0 to 130	11.0	20.0
BD19599	Sulfate	mg/L	0.0864	2.0	20.0	18.7	18.4	19.8	18.0 to 22.0	89.2	80.0 to 120	1.62	20.0
BD19593	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.0980	0.103	0.108	0.0850 to 0.115	98.0	70.0 to 130	4.98	20.0
BD19591	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.108	0.104	0.102	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD19591	Total Organic Carbon	mg/L	0.122	1.00	10.0	13.8	13.9	23.8		96.0	80.0 to 120	0.722	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 16:08  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-5

**Laboratory ID Number:** BD19590

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19763	Alkalinity	mg CaCO3/L					44.0	51.6	45.0 to 55.0			0.227	10.0
BD19590	Fluoride	mg/L	0.000000	0.0200	2.00	2.31	0.197	2.07	1.80 to 2.20	105	80.0 to 120	5.43	20.0
BD19591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.96	0.082	1.82	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD19594	Solids, Dissolved	mg/L	0.0000	25.0			652	47.0	40.0 to 60.0			1.52	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-18

**Location Code:** WMWGREAP  
**Collected:** 10/23/23 13:12  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19591

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 11:30	11/1/23 14:50		1.015	1.07	mg/L	0.030000	0.1015	
* Calcium, Total	10/26/23 11:30	11/1/23 20:01		10.15	77.5	mg/L	0.70035	4.06	RA
* Iron, Total	10/26/23 11:30	11/1/23 20:01		10.15	15.9	mg/L	0.08120	0.406	RA
* Lithium, Total	10/26/23 11:30	11/1/23 14:50		1.015	0.276	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/26/23 11:30	11/1/23 14:50		1.015	12.1	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 11:30	11/1/23 14:50		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 14:50		1	17.4	mg/L			
* Silicon, Total	10/26/23 11:30	11/1/23 14:50		1.015	8.15	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 11:30	11/1/23 20:01		10.15	42.3	mg/L	0.4060	4.06	RA
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/26/23 08:50	11/1/23 13:11		1.015	1.06	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/26/23 08:50	11/1/23 18:29		10.15	77.7	mg/L	0.70035	4.06	
* Iron, Dissolved	10/26/23 08:50	11/1/23 18:29		10.15	16.1	mg/L	0.08120	0.406	
* Lithium, Dissolved	10/26/23 08:50	11/1/23 13:11		1.015	0.271	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 13:11		1.015	12.0	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 13:11		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 13:11		1	17.2	mg/L			
* Silicon, Dissolved	10/26/23 08:50	11/1/23 13:11		1.015	8.06	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 08:50	11/1/23 18:29		10.15	43.4	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 11:30	10/26/23 17:06		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 11:30	10/26/23 17:06		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/26/23 11:30	10/26/23 17:06		1.015	0.0517	mg/L	0.000112	0.000203	
* Barium, Total	10/26/23 11:30	10/26/23 17:06		1.015	0.0692	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 11:30	10/26/23 17:06		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 11:30	10/26/23 17:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/26/23 11:30	10/26/23 17:06		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/26/23 11:30	10/26/23 17:06		1.015	0.0220	mg/L	0.000068	0.000203	
* Lead, Total	10/26/23 11:30	10/26/23 17:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/26/23 11:30	10/30/23 14:14		5.075	2.67	mg/L	0.000761	0.005075	BB

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Total Iron detected in reagent blank is < 10% of the sample concentration.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-18

**Location Code:** WMWGREAP  
**Collected:** 10/23/23 13:12  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19591

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 11:30	10/26/23 17:06		1.015	5.35	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 11:30	10/26/23 17:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 11:30	10/26/23 17:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 08:50	10/26/23 15:03		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 15:03		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 15:03		1.015	0.0520	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/26/23 08:50	10/26/23 15:03		1.015	0.0660	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 15:03		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 15:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/26/23 08:50	10/26/23 15:03		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 15:03		1.015	0.0219	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 08:50	10/26/23 15:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 08:50	10/30/23 12:45		5.075	2.66	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/26/23 08:50	10/26/23 15:03		1.015	5.37	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 08:50	10/26/23 15:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 08:50	10/26/23 15:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:07		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 03:02	11/15/23 03:02		1	0.164	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:12	10/26/23 14:12		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 13:52	11/3/23 15:25		1	4.51	SU		2	
* Alkalinity	11/3/23 13:52	11/3/23 15:25		1	296	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	376	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	296	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Total Iron detected in reagent blank is < 10% of the sample concentration.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-18

**Location Code:** WMWGREAP  
**Collected:** 10/23/23 13:12  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19591

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 11:50	10/27/23 11:50		1	4.20	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 15:24	10/30/23 15:24		2	23.7	mg/L	1.00	2	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:54	10/26/23 11:54		1	17.7	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	10/23/23 13:09	10/23/23 13:09			617.57	uS/cm			FA
pH	10/23/23 13:09	10/23/23 13:09			6.40	SU			FA
Temperature	10/23/23 13:09	10/23/23 13:09			20.85	C			FA
Turbidity	10/23/23 13:09	10/23/23 13:09			1.29	NTU			FA
Sulfide	10/23/23 13:09	10/23/23 13:09			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Total Iron detected in reagent blank is < 10% of the sample concentration.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/23/23 13:12  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-18

**Laboratory ID Number:** BD19591

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19593	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0991	0.0993	0.0960	0.0850 to 0.115	99.1	70.0 to 130	0.202	20.0
BD19591	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.101	0.102	0.101	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19593	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0977	0.0987	0.0956	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BD19591	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.105	0.104	0.0977	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD19593	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.991	0.971	0.0973	0.0850 to 0.115	89.0	70.0 to 130	2.04	20.0
BD19591	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.150	0.152	0.0964	0.0850 to 0.115	98.3	70.0 to 130	1.32	20.0
BD19593	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.362	0.357	0.102	0.0850 to 0.115	102	70.0 to 130	1.39	20.0
BD19591	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.168	0.169	0.0994	0.0850 to 0.115	98.8	70.0 to 130	0.593	20.0
BD19593	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.109	0.111	0.0983	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD19591	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.0984	0.102	0.100	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BD19593	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	3.15	3.13	0.932	0.850 to 1.15	93.0	70.0 to 130	0.637	20.0
BD19591	Boron, Total	mg/L	-0.000014	0.0650	1.00	2.01	2.00	0.935	0.850 to 1.15	94.0	70.0 to 130	0.499	20.0
BD19593	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.0998	0.102	0.104	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BD19591	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0928	0.0934	0.0908	0.0850 to 0.115	92.8	70.0 to 130	0.644	20.0
BD19593	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	151	150	5.00	4.25 to 5.75	60.0	70.0 to 130	0.664	20.0
BD19591	Calcium, Total	mg/L	-0.0387	0.152	5.00	74.6	82.7	4.87	4.25 to 5.75	-58.0	70.0 to 130	10.3	20.0
BD19600	Chloride	mg/L	0.00993	1.00	10.0	17.8	17.8	10.1	9.00 to 11.0	99.8	80.0 to 120	0.00	20.0
BD19593	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.100	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD19591	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.101	0.101	0.101	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19593	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.110	0.110	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19591	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.126	0.127	0.105	0.0850 to 0.115	104	70.0 to 130	0.791	20.0
BD19593	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	36.9	35.4	0.193	0.170 to 0.230	-250	70.0 to 130	4.15	20.0
BD19591	Iron, Total	mg/L	0.0463	0.0176	0.2	14.7	16.2	0.195	0.170 to 0.230	-600	70.0 to 130	9.71	20.0
BD19593	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0954	0.101	0.105	0.0850 to 0.115	95.4	70.0 to 130	5.70	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Total Iron detected in reagent blank is < 10% of the sample concentration.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/23/23 13:12  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-18

**Laboratory ID Number:** BD19591

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19591	Lead, Total	mg/L	0.000063	0.000147	0.100	0.106	0.102	0.100	0.0850 to 0.115	106	70.0 to 130	3.85	20.0
BD19593	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.854	0.849	0.192	0.170 to 0.230	95.5	70.0 to 130	0.587	20.0
BD19591	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.469	0.465	0.197	0.170 to 0.230	96.5	70.0 to 130	0.857	20.0
BD19593	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	34.4	34.2	4.89	4.25 to 5.75	94.0	70.0 to 130	0.583	20.0
BD19591	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	16.8	16.8	4.90	4.25 to 5.75	94.0	70.0 to 130	0.00	20.0
BD19593	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	1.81	1.75	0.104	0.0850 to 0.115	60.0	70.0 to 130	3.37	20.0
BD19591	Manganese, Total	mg/L	0.000806	0.00033	0.100	2.80	2.76	0.105	0.0850 to 0.115	130	70.0 to 130	1.44	20.0
BD19596	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00382	0.00383	0.00387	0.00340 to 0.00460	95.5	70.0 to 130	0.261	20.0
BD19593	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.244	0.243	0.197	0.170 to 0.230	101	70.0 to 130	0.411	20.0
BD19591	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.201	0.202	0.170 to 0.230	101	70.0 to 130	0.496	20.0
BD19593	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	23.9	23.3	9.44	8.50 to 11.5	104	70.0 to 130	2.54	20.0
BD19591	Potassium, Total	mg/L	-0.00589	0.367	10.0	15.1	15.0	9.83	8.50 to 11.5	97.5	70.0 to 130	0.664	20.0
BD19593	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19591	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.101	0.101	0.0988	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19593	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	9.43	9.39	0.968	0.850 to 1.15	86.0	70.0 to 130	0.425	20.0
BD19591	Silicon, Total	mg/L	-0.00025	0.0440	1.00	8.98	8.95	0.971	0.850 to 1.15	83.0	70.0 to 130	0.335	20.0
BD19593	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	54.1	53.4	4.90	4.25 to 5.75	76.0	70.0 to 130	1.30	20.0
BD19591	Sodium, Total	mg/L	0.00116	0.0880	5.00	43.1	48.1	4.92	4.25 to 5.75	16.0	70.0 to 130	11.0	20.0
BD19599	Sulfate	mg/L	0.0864	2.0	20.0	18.7	18.4	19.8	18.0 to 22.0	89.2	80.0 to 120	1.62	20.0
BD19593	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.0980	0.103	0.108	0.0850 to 0.115	98.0	70.0 to 130	4.98	20.0
BD19591	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.108	0.104	0.102	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BD19591	Total Organic Carbon	mg/L	0.122	1.00	10.0	13.8	13.9	23.8		96.0	80.0 to 120	0.722	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Total Iron detected in reagent blank is < 10% of the sample concentration.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/23/23 13:12  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-18

**Laboratory ID Number:** BD19591

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19592	Alkalinity	mg CaCO3/L					206	51.1	45.0 to 55.0			1.45	10.0
BD19600	Fluoride	mg/L	0.000000	0.0200	2.00	2.16	0.0961	2.06	1.80 to 2.20	103	80.0 to 120	1.34	20.0
BD19591	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.96	0.082	1.82	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BD19594	Solids, Dissolved	mg/L	0.0000	25.0			652	47.0	40.0 to 60.0			1.52	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Total Iron detected in reagent blank is < 10% of the sample concentration.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-38H

**Location Code:** WMWGREAP  
**Collected:** 10/23/23 14:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19592

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 11:30	11/1/23 15:06		1.015	0.0774	mg/L	0.030000	0.1015	J
* Calcium, Total	10/26/23 11:30	11/1/23 20:10		10.15	85.3	mg/L	0.70035	4.06	
* Lithium, Total	10/26/23 11:30	11/1/23 15:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/26/23 11:30	11/1/23 15:06		1.015	6.66	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 11:30	11/1/23 15:06		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 15:06		1	9.22	mg/L			
* Silicon, Total	10/26/23 11:30	11/1/23 15:06		1.015	4.31	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 11:30	11/1/23 15:06		1.015	2.74	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Iron, Total	11/7/23 07:18	11/14/23 11:53		1.015	1.07	mg/L	0.008120	0.0406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/26/23 08:50	11/1/23 13:15		1.015	0.0769	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	10/26/23 08:50	11/1/23 18:32		10.15	87.1	mg/L	0.70035	4.06	
* Iron, Dissolved	10/26/23 08:50	11/1/23 13:15		1.015	0.0107	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	10/26/23 08:50	11/1/23 13:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 13:15		1.015	6.69	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 13:15		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 13:15		1	8.54	mg/L			
* Silicon, Dissolved	10/26/23 08:50	11/1/23 13:15		1.015	3.99	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 08:50	11/1/23 13:15		1.015	2.66	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 11:30	10/26/23 17:28		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 11:30	10/26/23 17:28		1.015	0.320	mg/L	0.009135	0.05075	
* Arsenic, Total	10/26/23 11:30	10/26/23 17:28		1.015	0.000304	mg/L	0.000112	0.000203	
* Barium, Total	10/26/23 11:30	10/26/23 17:28		1.015	0.0966	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 11:30	10/26/23 17:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 11:30	10/26/23 17:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/26/23 11:30	10/26/23 17:28		1.015	0.000537	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/26/23 11:30	10/26/23 17:28		1.015	0.000571	mg/L	0.000068	0.000203	
* Lead, Total	10/26/23 11:30	10/26/23 17:28		1.015	0.000408	mg/L	0.000068	0.000203	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-38H

**Location Code:** WMWGREAP  
**Collected:** 10/23/23 14:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19592

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Manganese, Total	10/26/23 11:30	10/26/23 17:28		1.015	0.119	mg/L	0.000152	0.001015	BB
* Potassium, Total	10/26/23 11:30	10/26/23 17:28		1.015	2.07	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 11:30	10/26/23 17:28		1.015	0.0104	mg/L	0.000508	0.001015	
* Thallium, Total	10/26/23 11:30	10/26/23 17:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 08:50	10/26/23 15:07		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 15:07		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 15:07		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/26/23 08:50	10/26/23 15:07		1.015	0.0945	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 15:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 15:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/26/23 08:50	10/26/23 15:07		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 15:07		1.015	0.000272	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 08:50	10/26/23 15:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 08:50	10/26/23 15:07		1.015	0.133	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/26/23 08:50	10/26/23 15:07		1.015	1.94	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 08:50	10/26/23 15:07		1.015	0.0108	mg/L	0.000508	0.001015	
* Thallium, Dissolved	10/26/23 08:50	10/26/23 15:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:09		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 03:25	11/15/23 03:25		1	0.149	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:22	10/26/23 14:22		1	0.554	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 13:52	11/3/23 15:25		1	4.48	SU		2	
* Alkalinity	11/3/23 13:52	11/3/23 15:25		1	209	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	281	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	209	mg CaCO3/L		1	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-38H

**Location Code:** WMWGREAP  
**Collected:** 10/23/23 14:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19592

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Carbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	Not Detected	mg CaCO3/L		0.5	
<i>Analytical Method: SM 5310 B</i>		<i>Analyst: JLR</i>							
* Total Organic Carbon	10/27/23 13:05	10/27/23 13:05		1	2.17	mg/L	1.00	2	
<i>Analytical Method: SM4500Cl E</i>		<i>Analyst: JCC</i>							
* Chloride	10/30/23 15:11	10/30/23 15:11		1	2.34	mg/L	0.50	1	
<i>Analytical Method: SM4500SO4 E 2011</i>		<i>Analyst: JCC</i>							
* Sulfate	10/26/23 11:55	10/26/23 11:55		1	31.0	mg/L	0.6	2	
<i>Analytical Method: Field Measurements</i>		<i>Analyst: TJD</i>							
Conductivity	10/23/23 14:41	10/23/23 14:41			438.86	uS/cm			FA
pH	10/23/23 14:41	10/23/23 14:41			6.63	SU			FA
Temperature	10/23/23 14:41	10/23/23 14:41			23.97	C			FA
Turbidity	10/23/23 14:41	10/23/23 14:41			2.54	NTU			FA
Sulfide	10/23/23 14:41	10/23/23 14:41			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/23/23 14:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-38H

**Laboratory ID Number:** BD19592

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19593	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0991	0.0993	0.0960	0.0850 to 0.115	99.1	70.0 to 130	0.202	20.0
BD19601	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD19593	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0977	0.0987	0.0956	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BD19601	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.106	0.104	0.0977	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD19593	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.991	0.971	0.0973	0.0850 to 0.115	89.0	70.0 to 130	2.04	20.0
BD19601	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.0976	0.0979	0.0964	0.0850 to 0.115	97.3	70.0 to 130	0.307	20.0
BD19593	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.362	0.357	0.102	0.0850 to 0.115	102	70.0 to 130	1.39	20.0
BD19601	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.129	0.129	0.0994	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19593	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.109	0.111	0.0983	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD19601	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.105	0.103	0.100	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD19593	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	3.15	3.13	0.932	0.850 to 1.15	93.0	70.0 to 130	0.637	20.0
BD19601	Boron, Total	mg/L	-0.000014	0.0650	1.00	1.58	1.58	0.935	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD19593	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.0998	0.102	0.104	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BD19601	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0917	0.0887	0.0908	0.0850 to 0.115	91.6	70.0 to 130	3.33	20.0
BD19593	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	151	150	5.00	4.25 to 5.75	60.0	70.0 to 130	0.664	20.0
BD19601	Calcium, Total	mg/L	-0.0387	0.152	5.00	102	102	4.87	4.25 to 5.75	82.0	70.0 to 130	0.00	20.0
BD19600	Chloride	mg/L	0.00993	1.00	10.0	17.8	17.8	10.1	9.00 to 11.0	99.8	80.0 to 120	0.00	20.0
BD19593	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.100	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD19601	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.0986	0.0986	0.101	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD19593	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.110	0.110	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19601	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.115	0.115	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19593	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	36.9	35.4	0.193	0.170 to 0.230	-250	70.0 to 130	4.15	20.0
BD19600	Iron, Total	mg/L	0.00152	0.0176	0.2	0.704	0.703	0.215	0.170 to 0.230	102	70.0 to 130	0.142	20.0
BD19593	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0954	0.101	0.105	0.0850 to 0.115	95.4	70.0 to 130	5.70	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/23/23 14:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-38H

**Laboratory ID Number:** BD19592

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19601	Lead, Total	mg/L	0.000063	0.000147	0.100	0.101	0.0980	0.100	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BD19593	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.854	0.849	0.192	0.170 to 0.230	95.5	70.0 to 130	0.587	20.0
BD19601	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.943	0.955	0.197	0.170 to 0.230	122	70.0 to 130	1.26	20.0
BD19593	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	34.4	34.2	4.89	4.25 to 5.75	94.0	70.0 to 130	0.583	20.0
BD19601	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	29.1	29.0	4.90	4.25 to 5.75	130	70.0 to 130	0.344	20.0
BD19593	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	1.81	1.75	0.104	0.0850 to 0.115	60.0	70.0 to 130	3.37	20.0
BD19601	Manganese, Total	mg/L	0.000806	0.00033	0.100	2.95	2.98	0.105	0.0850 to 0.115	0.00	70.0 to 130	1.01	20.0
BD19596	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00382	0.00383	0.00387	0.00340 to 0.00460	95.5	70.0 to 130	0.261	20.0
BD19593	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.244	0.243	0.197	0.170 to 0.230	101	70.0 to 130	0.411	20.0
BD19601	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.207	0.202	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BD19593	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	23.9	23.3	9.44	8.50 to 11.5	104	70.0 to 130	2.54	20.0
BD19601	Potassium, Total	mg/L	-0.00589	0.367	10.0	18.6	18.9	9.83	8.50 to 11.5	96.8	70.0 to 130	1.60	20.0
BD19593	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19601	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.0994	0.0967	0.0988	0.0850 to 0.115	99.4	70.0 to 130	2.75	20.0
BD19593	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	9.43	9.39	0.968	0.850 to 1.15	86.0	70.0 to 130	0.425	20.0
BD19601	Silicon, Total	mg/L	-0.00025	0.0440	1.00	4.27	4.28	0.971	0.850 to 1.15	118	70.0 to 130	0.234	20.0
BD19593	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	54.1	53.4	4.90	4.25 to 5.75	76.0	70.0 to 130	1.30	20.0
BD19601	Sodium, Total	mg/L	0.00116	0.0880	5.00	24.5	24.7	4.92	4.25 to 5.75	124	70.0 to 130	0.813	20.0
BD19599	Sulfate	mg/L	0.0864	2.0	20.0	18.7	18.4	19.8	18.0 to 22.0	89.2	80.0 to 120	1.62	20.0
BD19593	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.0980	0.103	0.108	0.0850 to 0.115	98.0	70.0 to 130	4.98	20.0
BD19601	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.104	0.0998	0.102	0.0850 to 0.115	104	70.0 to 130	4.12	20.0
BD19601	Total Organic Carbon	mg/L	0.106	1.00	10.0	10.7	10.6	24.8		89.3	80.0 to 120	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/23/23 14:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-38H

**Laboratory ID Number:** BD19592

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19592	Alkalinity	mg CaCO3/L					206	51.1	45.0 to 55.0			1.45	10.0
BD19600	Fluoride	mg/L	0.000000	0.0200	2.00	2.16	0.0961	2.06	1.80 to 2.20	103	80.0 to 120	1.34	20.0
BD19601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	1.95	0.031	1.85	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19594	Solids, Dissolved	mg/L	0.0000	25.0			652	47.0	40.0 to 60.0			1.52	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-17

**Location Code:** WMWGREAP  
**Collected:** 10/23/23 15:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19593

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 11:30	11/1/23 15:09		1.015	2.21	mg/L	0.030000	0.1015	
* Calcium, Total	10/26/23 11:30	11/1/23 20:13		10.15	147	mg/L	0.70035	4.06	
* Iron, Total	10/26/23 11:30	11/3/23 13:11		101.5	36.5	mg/L	0.8120	4.06	BB
* Lithium, Total	10/26/23 11:30	11/1/23 15:09		1.015	0.655	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/26/23 11:30	11/1/23 15:09		1.015	29.6	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 11:30	11/1/23 15:09		1.015	0.0426	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 15:09		1	18.3	mg/L			
* Silicon, Total	10/26/23 11:30	11/1/23 15:09		1.015	8.56	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 11:30	11/1/23 20:13		10.15	49.3	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>							
* Boron, Dissolved	10/26/23 08:50	11/1/23 13:18		1.015	2.22	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/26/23 08:50	11/1/23 18:35		10.15	148	mg/L	0.70035	4.06	RA
* Iron, Dissolved	10/26/23 08:50	11/3/23 13:02		101.5	37.4	mg/L	0.8120	4.06	RA
* Lithium, Dissolved	10/26/23 08:50	11/1/23 13:18		1.015	0.663	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 13:18		1.015	29.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 13:18		1.015	0.0419	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 13:18		1	18.3	mg/L			
* Silicon, Dissolved	10/26/23 08:50	11/1/23 13:18		1.015	8.57	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 08:50	11/1/23 18:35		10.15	50.3	mg/L	0.4060	4.06	RA
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 11:30	10/26/23 17:31		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 11:30	10/26/23 17:31		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/26/23 11:30	10/26/23 17:31		1.015	0.895	mg/L	0.000112	0.000203	
* Barium, Total	10/26/23 11:30	10/26/23 17:31		1.015	0.260	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 11:30	10/26/23 17:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 11:30	10/26/23 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/26/23 11:30	10/26/23 17:31		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/26/23 11:30	10/26/23 17:31		1.015	0.00717	mg/L	0.000068	0.000203	
* Lead, Total	10/26/23 11:30	10/26/23 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/26/23 11:30	10/30/23 14:25		5.075	1.72	mg/L	0.000761	0.005075	BB

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-17

**Location Code:** WMWGREAP  
**Collected:** 10/23/23 15:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19593

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 11:30	10/26/23 17:31		1.015	13.6	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 11:30	10/26/23 17:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 11:30	10/26/23 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 08:50	10/26/23 15:11		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 15:11		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 15:11		1.015	0.902	mg/L	0.000112	0.000203	RA
* Barium, Dissolved	10/26/23 08:50	10/26/23 15:11		1.015	0.260	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 15:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 15:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/26/23 08:50	10/26/23 15:11		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 15:11		1.015	0.00707	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 08:50	10/26/23 15:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 08:50	10/30/23 12:49		5.075	1.75	mg/L	0.000761	0.005075	RA
* Potassium, Dissolved	10/26/23 08:50	10/26/23 15:11		1.015	13.5	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 08:50	10/26/23 15:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 08:50	10/26/23 15:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:12		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 03:49	11/15/23 03:49		1	0.515	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:23	10/26/23 14:23		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 13:52	11/3/23 15:25		1	4.43	SU		2	
* Alkalinity	11/3/23 13:52	11/3/23 15:25		1	467	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	652	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	466	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	0.619	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-17

**Location Code:** WMWGREAP  
**Collected:** 10/23/23 15:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19593

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 13:21	10/27/23 13:21		1	3.90	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 15:12	10/30/23 15:12		1	10.0	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 12:09	10/26/23 12:09		4	97.3	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	10/23/23 15:42	10/23/23 15:42			986.93	uS/cm			FA
pH	10/23/23 15:42	10/23/23 15:42			6.63	SU			FA
Temperature	10/23/23 15:42	10/23/23 15:42			20.55	C			FA
Turbidity	10/23/23 15:42	10/23/23 15:42			2.23	NTU			FA
Sulfide	10/23/23 15:42	10/23/23 15:42			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/23/23 15:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-17

**Laboratory ID Number:** BD19593

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19593	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0991	0.0993	0.0960	0.0850 to 0.115	99.1	70.0 to 130	0.202	20.0
BD19601	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD19593	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0977	0.0987	0.0956	0.0850 to 0.115	97.7	70.0 to 130	1.02	20.0
BD19601	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.106	0.104	0.0977	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD19593	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.991	0.971	0.0973	0.0850 to 0.115	89.0	70.0 to 130	2.04	20.0
BD19601	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.0976	0.0979	0.0964	0.0850 to 0.115	97.3	70.0 to 130	0.307	20.0
BD19593	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.362	0.357	0.102	0.0850 to 0.115	102	70.0 to 130	1.39	20.0
BD19601	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.129	0.129	0.0994	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19593	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.109	0.111	0.0983	0.0850 to 0.115	109	70.0 to 130	1.82	20.0
BD19601	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.105	0.103	0.100	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD19593	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	3.15	3.13	0.932	0.850 to 1.15	93.0	70.0 to 130	0.637	20.0
BD19601	Boron, Total	mg/L	-0.000014	0.0650	1.00	1.58	1.58	0.935	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD19593	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.0998	0.102	0.104	0.0850 to 0.115	99.8	70.0 to 130	2.18	20.0
BD19601	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0917	0.0887	0.0908	0.0850 to 0.115	91.6	70.0 to 130	3.33	20.0
BD19593	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	151	150	5.00	4.25 to 5.75	60.0	70.0 to 130	0.664	20.0
BD19601	Calcium, Total	mg/L	-0.0387	0.152	5.00	102	102	4.87	4.25 to 5.75	82.0	70.0 to 130	0.00	20.0
BD19600	Chloride	mg/L	0.00993	1.00	10.0	17.8	17.8	10.1	9.00 to 11.0	99.8	80.0 to 120	0.00	20.0
BD19593	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.100	0.101	0.0998	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BD19601	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.0986	0.0986	0.101	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD19593	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.110	0.110	0.104	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19601	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.115	0.115	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19593	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	36.9	35.4	0.193	0.170 to 0.230	-250	70.0 to 130	4.15	20.0
BD19601	Iron, Total	mg/L	0.0463	0.0176	0.2	0.681	0.678	0.195	0.170 to 0.230	106	70.0 to 130	0.442	20.0
BD19593	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0954	0.101	0.105	0.0850 to 0.115	95.4	70.0 to 130	5.70	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/23/23 15:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-17

**Laboratory ID Number:** BD19593

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19601	Lead, Total	mg/L	0.000063	0.000147	0.100	0.101	0.0980	0.100	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BD19593	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.854	0.849	0.192	0.170 to 0.230	95.5	70.0 to 130	0.587	20.0
BD19601	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.943	0.955	0.197	0.170 to 0.230	122	70.0 to 130	1.26	20.0
BD19593	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	34.4	34.2	4.89	4.25 to 5.75	94.0	70.0 to 130	0.583	20.0
BD19601	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	29.1	29.0	4.90	4.25 to 5.75	130	70.0 to 130	0.344	20.0
BD19593	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	1.81	1.75	0.104	0.0850 to 0.115	60.0	70.0 to 130	3.37	20.0
BD19601	Manganese, Total	mg/L	0.000806	0.00033	0.100	2.95	2.98	0.105	0.0850 to 0.115	0.00	70.0 to 130	1.01	20.0
BD19596	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00382	0.00383	0.00387	0.00340 to 0.00460	95.5	70.0 to 130	0.261	20.0
BD19593	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.244	0.243	0.197	0.170 to 0.230	101	70.0 to 130	0.411	20.0
BD19601	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.207	0.202	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BD19593	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	23.9	23.3	9.44	8.50 to 11.5	104	70.0 to 130	2.54	20.0
BD19601	Potassium, Total	mg/L	-0.00589	0.367	10.0	18.6	18.9	9.83	8.50 to 11.5	96.8	70.0 to 130	1.60	20.0
BD19593	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.102	0.102	0.102	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19601	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.0994	0.0967	0.0988	0.0850 to 0.115	99.4	70.0 to 130	2.75	20.0
BD19593	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	9.43	9.39	0.968	0.850 to 1.15	86.0	70.0 to 130	0.425	20.0
BD19601	Silicon, Total	mg/L	-0.00025	0.0440	1.00	4.27	4.28	0.971	0.850 to 1.15	118	70.0 to 130	0.234	20.0
BD19593	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	54.1	53.4	4.90	4.25 to 5.75	76.0	70.0 to 130	1.30	20.0
BD19601	Sodium, Total	mg/L	0.00116	0.0880	5.00	24.5	24.7	4.92	4.25 to 5.75	124	70.0 to 130	0.813	20.0
BD19599	Sulfate	mg/L	0.0864	2.0	20.0	18.7	18.4	19.8	18.0 to 22.0	89.2	80.0 to 120	1.62	20.0
BD19593	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.0980	0.103	0.108	0.0850 to 0.115	98.0	70.0 to 130	4.98	20.0
BD19601	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.104	0.0998	0.102	0.0850 to 0.115	104	70.0 to 130	4.12	20.0
BD19601	Total Organic Carbon	mg/L	0.106	1.00	10.0	10.7	10.6	24.8		89.3	80.0 to 120	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/23/23 15:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-17

**Laboratory ID Number:** BD19593

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19592	Alkalinity	mg CaCO3/L					206	51.1	45.0 to 55.0			1.45	10.0
BD19600	Fluoride	mg/L	0.000000	0.0200	2.00	2.16	0.0961	2.06	1.80 to 2.20	103	80.0 to 120	1.34	20.0
BD19601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	1.95	0.031	1.85	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19594	Solids, Dissolved	mg/L	0.0000	25.0			652	47.0	40.0 to 60.0			1.52	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-17 Dup

**Location Code:** WMWGREAP  
**Collected:** 10/23/23 15:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19594

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 11:30	11/1/23 15:12		1.015	2.22	mg/L	0.030000	0.1015	
* Calcium, Total	10/26/23 11:30	11/1/23 20:23		10.15	164	mg/L	0.70035	4.06	
* Iron, Total	10/26/23 11:30	11/3/23 13:14		101.5	34.9	mg/L	0.8120	4.06	BB
* Lithium, Total	10/26/23 11:30	11/1/23 15:12		1.015	0.667	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/26/23 11:30	11/1/23 15:12		1.015	29.9	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 11:30	11/1/23 15:12		1.015	0.0422	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 15:12		1	18.4	mg/L			
* Silicon, Total	10/26/23 11:30	11/1/23 15:12		1.015	8.58	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 11:30	11/1/23 20:23		10.15	54.8	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/26/23 08:50	11/1/23 13:34		1.015	2.22	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/26/23 08:50	11/1/23 18:51		10.15	133	mg/L	0.70035	4.06	
* Iron, Dissolved	10/26/23 08:50	11/1/23 18:51		10.15	36.5	mg/L	0.08120	0.406	
* Lithium, Dissolved	10/26/23 08:50	11/1/23 13:34		1.015	0.652	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 13:34		1.015	29.6	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 13:34		1.015	0.0422	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 13:34		1	18.4	mg/L			
* Silicon, Dissolved	10/26/23 08:50	11/1/23 13:34		1.015	8.58	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 08:50	11/1/23 18:51		10.15	45.5	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 11:30	10/26/23 17:35		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 11:30	10/26/23 17:35		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/26/23 11:30	10/26/23 17:35		1.015	0.892	mg/L	0.000112	0.000203	
* Barium, Total	10/26/23 11:30	10/26/23 17:35		1.015	0.263	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 11:30	10/26/23 17:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 11:30	10/26/23 17:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/26/23 11:30	10/26/23 17:35		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/26/23 11:30	10/26/23 17:35		1.015	0.00716	mg/L	0.000068	0.000203	
* Lead, Total	10/26/23 11:30	10/26/23 17:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/26/23 11:30	10/30/23 14:29		5.075	1.69	mg/L	0.000761	0.005075	BB

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-17 Dup

**Location Code:** WMWGREAP  
**Collected:** 10/23/23 15:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19594

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 11:30	10/26/23 17:35		1.015	13.6	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 11:30	10/26/23 17:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 11:30	10/26/23 17:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 08:50	10/26/23 15:33		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 15:33		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 15:33		1.015	0.892	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/26/23 08:50	10/26/23 15:33		1.015	0.248	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 15:33		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 15:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/26/23 08:50	10/26/23 15:33		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 15:33		1.015	0.00720	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 08:50	10/26/23 15:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 08:50	10/30/23 13:00		5.075	1.72	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/26/23 08:50	10/26/23 15:33		1.015	13.4	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 08:50	10/26/23 15:33		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 08:50	10/26/23 15:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:14		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 04:16	11/15/23 04:16		1	0.514	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:25	10/26/23 14:25		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 13:52	11/3/23 15:25		1	4.54	SU		2	
* Alkalinity	11/3/23 13:52	11/3/23 15:25		1	464	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	662	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	463	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	0.757	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-17 Dup

**Location Code:** WMWGREAP  
**Collected:** 10/23/23 15:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19594

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 13:36	10/27/23 13:36		1	4.25	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 15:14	10/30/23 15:14		1	9.96	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 12:10	10/26/23 12:10		4	94.1	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	10/23/23 15:42	10/23/23 15:42			986.93	uS/cm			FA
pH	10/23/23 15:42	10/23/23 15:42			6.63	SU			FA
Temperature	10/23/23 15:42	10/23/23 15:42			20.55	C			FA
Turbidity	10/23/23 15:42	10/23/23 15:42			2.23	NTU			FA
Sulfide	10/23/23 15:42	10/23/23 15:42			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/23/23 15:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-17 Dup

**Laboratory ID Number:** BD19594

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19602	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0975	0.0997	0.0960	0.0850 to 0.115	97.5	70.0 to 130	2.23	20.0
BD19601	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD19602	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0989	0.0987	0.0956	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BD19601	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.106	0.104	0.0977	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD19602	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.0972	0.0984	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.23	20.0
BD19601	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.0976	0.0979	0.0964	0.0850 to 0.115	97.3	70.0 to 130	0.307	20.0
BD19602	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.138	0.139	0.102	0.0850 to 0.115	99.7	70.0 to 130	0.722	20.0
BD19601	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.129	0.129	0.0994	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19602	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.108	0.106	0.0983	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD19601	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.105	0.103	0.100	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD19602	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	1.82	1.82	0.932	0.850 to 1.15	93.8	70.0 to 130	0.00	20.0
BD19601	Boron, Total	mg/L	-0.000014	0.0650	1.00	1.58	1.58	0.935	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD19602	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19601	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0917	0.0887	0.0908	0.0850 to 0.115	91.6	70.0 to 130	3.33	20.0
BD19602	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	80.7	84.5	5.00	4.25 to 5.75	-72.0	70.0 to 130	4.60	20.0
BD19601	Calcium, Total	mg/L	-0.0387	0.152	5.00	102	102	4.87	4.25 to 5.75	82.0	70.0 to 130	0.00	20.0
BD19600	Chloride	mg/L	0.00993	1.00	10.0	17.8	17.8	10.1	9.00 to 11.0	99.8	80.0 to 120	0.00	20.0
BD19602	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.0972	0.0984	0.0998	0.0850 to 0.115	97.2	70.0 to 130	1.23	20.0
BD19601	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.0986	0.0986	0.101	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD19602	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.119	0.120	0.104	0.0850 to 0.115	101	70.0 to 130	0.837	20.0
BD19601	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.115	0.115	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19602	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	1.38	1.37	0.193	0.170 to 0.230	95.0	70.0 to 130	0.727	20.0
BD19601	Iron, Total	mg/L	0.0463	0.0176	0.2	0.681	0.678	0.195	0.170 to 0.230	106	70.0 to 130	0.442	20.0
BD19602	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/23/23 15:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-17 Dup

**Laboratory ID Number:** BD19594

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19601	Lead, Total	mg/L	0.000063	0.000147	0.100	0.101	0.0980	0.100	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BD19602	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.728	0.726	0.192	0.170 to 0.230	97.5	70.0 to 130	0.275	20.0
BD19601	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.943	0.955	0.197	0.170 to 0.230	122	70.0 to 130	1.26	20.0
BD19602	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	23.8	23.9	4.89	4.25 to 5.75	98.0	70.0 to 130	0.419	20.0
BD19601	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	29.1	29.0	4.90	4.25 to 5.75	130	70.0 to 130	0.344	20.0
BD19602	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	2.14	2.17	0.104	0.0850 to 0.115	60.0	70.0 to 130	1.39	20.0
BD19601	Manganese, Total	mg/L	0.000806	0.00033	0.100	2.95	2.98	0.105	0.0850 to 0.115	0.00	70.0 to 130	1.01	20.0
BD19596	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00382	0.00383	0.00387	0.00340 to 0.00460	95.5	70.0 to 130	0.261	20.0
BD19602	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.199	0.198	0.197	0.170 to 0.230	99.5	70.0 to 130	0.504	20.0
BD19601	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.207	0.202	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BD19602	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	19.7	20.3	9.44	8.50 to 11.5	97.4	70.0 to 130	3.00	20.0
BD19601	Potassium, Total	mg/L	-0.00589	0.367	10.0	18.6	18.9	9.83	8.50 to 11.5	96.8	70.0 to 130	1.60	20.0
BD19602	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.101	0.0999	0.102	0.0850 to 0.115	101	70.0 to 130	1.10	20.0
BD19601	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.0994	0.0967	0.0988	0.0850 to 0.115	99.4	70.0 to 130	2.75	20.0
BD19602	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	6.23	6.23	0.968	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BD19601	Silicon, Total	mg/L	-0.00025	0.0440	1.00	4.27	4.28	0.971	0.850 to 1.15	118	70.0 to 130	0.234	20.0
BD19602	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	32.6	32.5	4.90	4.25 to 5.75	100	70.0 to 130	0.307	20.0
BD19601	Sodium, Total	mg/L	0.00116	0.0880	5.00	24.5	24.7	4.92	4.25 to 5.75	124	70.0 to 130	0.813	20.0
BD19599	Sulfate	mg/L	0.0864	2.0	20.0	18.7	18.4	19.8	18.0 to 22.0	89.2	80.0 to 120	1.62	20.0
BD19602	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.108	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19601	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.104	0.0998	0.102	0.0850 to 0.115	104	70.0 to 130	4.12	20.0
BD19601	Total Organic Carbon	mg/L	0.106	1.00	10.0	10.7	10.6	24.8		89.3	80.0 to 120	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/23/23 15:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-17 Dup

**Laboratory ID Number:** BD19594

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19592	Alkalinity	mg CaCO3/L					206	51.1	45.0 to 55.0			1.45	10.0
BD19600	Fluoride	mg/L	0.000000	0.0200	2.00	2.16	0.0961	2.06	1.80 to 2.20	103	80.0 to 120	1.34	20.0
BD19601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	1.95	0.031	1.85	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19594	Solids, Dissolved	mg/L	0.0000	25.0			652	47.0	40.0 to 60.0			1.52	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-26

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 09:13  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19595

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	10/26/23 11:30	11/1/23 15:15		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/26/23 11:30	11/1/23 15:15		1.015	8.82	mg/L	0.070035	0.406		
* Lithium, Total	10/26/23 11:30	11/1/23 15:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/26/23 11:30	11/1/23 15:15		1.015	1.20	mg/L	0.021315	0.406		
* Molybdenum, Total	10/26/23 11:30	11/1/23 15:15		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 15:15		1	10.8	mg/L				
* Silicon, Total	10/26/23 11:30	11/1/23 15:15		1.015	5.03	mg/L	0.02030	0.25375		
* Sodium, Total	10/26/23 11:30	11/1/23 15:15		1.015	3.86	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Iron, Total	11/7/23 07:18	11/14/23 11:56		1.015	0.0152	mg/L	0.008120	0.0406	J	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	10/26/23 08:50	11/1/23 13:37		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	10/26/23 08:50	11/1/23 13:37		1.015	8.87	mg/L	0.070035	0.406		
* Iron, Dissolved	10/26/23 08:50	11/1/23 13:37		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	10/26/23 08:50	11/1/23 13:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 13:37		1.015	1.22	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 13:37		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 13:37		1	10.7	mg/L				
* Silicon, Dissolved	10/26/23 08:50	11/1/23 13:37		1.015	4.99	mg/L	0.02030	0.25375		
* Sodium, Dissolved	10/26/23 08:50	11/1/23 13:37		1.015	3.85	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	10/26/23 11:30	10/26/23 17:39		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	10/26/23 11:30	10/26/23 17:39		1.015	0.0621	mg/L	0.009135	0.05075		
* Arsenic, Total	10/26/23 11:30	10/26/23 17:39		1.015	0.000115	mg/L	0.000112	0.000203	J	
* Barium, Total	10/26/23 11:30	10/26/23 17:39		1.015	0.0443	mg/L	0.000508	0.001015		
* Beryllium, Total	10/26/23 11:30	10/26/23 17:39		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/26/23 11:30	10/26/23 17:39		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/26/23 11:30	10/26/23 17:39		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	10/26/23 11:30	10/26/23 17:39		1.015	0.000546	mg/L	0.000068	0.000203		
* Lead, Total	10/26/23 11:30	10/26/23 17:39		1.015	Not Detected	mg/L	0.000068	0.000203	U	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-26

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 09:13  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19595

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Manganese, Total	10/26/23 11:30	10/26/23 17:39		1.015	0.0527	mg/L	0.000152	0.001015	BB
* Potassium, Total	10/26/23 11:30	10/26/23 17:39		1.015	0.522	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 11:30	10/26/23 17:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 11:30	10/26/23 17:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 08:50	10/26/23 15:37		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 15:37		1.015	0.0266	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 15:37		1.015	0.000140	mg/L	0.000112	0.000203	J
* Barium, Dissolved	10/26/23 08:50	10/26/23 15:37		1.015	0.0432	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 15:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 15:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/26/23 08:50	10/26/23 15:37		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 15:37		1.015	0.000507	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 08:50	10/26/23 15:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 08:50	10/26/23 15:37		1.015	0.0489	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/26/23 08:50	10/26/23 15:37		1.015	0.510	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 08:50	10/26/23 15:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 08:50	10/26/23 15:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:17		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 04:42	11/15/23 04:42		1	0.0327	mg/L	0.02	0.04	J
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:27	10/26/23 14:27		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 13:52	11/3/23 15:25		1	4.17	SU		2	
* Alkalinity	11/3/23 13:52	11/3/23 15:25		1	15.6	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	60.0	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	15.6	mg CaCO3/L		1	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-26

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 09:13  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19595

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Carbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	Not Detected	mg CaCO3/L		0.5	
<i>Analytical Method: SM 5310 B</i>		<i>Analyst: JLR</i>							
* Total Organic Carbon	10/27/23 13:52	10/27/23 13:52		1	Not Detected	mg/L	1.00	2	U
<i>Analytical Method: SM4500Cl E</i>		<i>Analyst: JCC</i>							
* Chloride	10/30/23 15:15	10/30/23 15:15		1	2.84	mg/L	0.50	1	
<i>Analytical Method: SM4500SO4 E 2011</i>		<i>Analyst: JCC</i>							
* Sulfate	10/26/23 11:59	10/26/23 11:59		1	15.4	mg/L	0.6	2	
<i>Analytical Method: Field Measurements</i>		<i>Analyst: TJD</i>							
Conductivity	10/24/23 09:10	10/24/23 09:10			79.15	uS/cm			FA
pH	10/24/23 09:10	10/24/23 09:10			5.62	SU			FA
Temperature	10/24/23 09:10	10/24/23 09:10			19.21	C			FA
Turbidity	10/24/23 09:10	10/24/23 09:10			0.42	NTU			FA
Sulfide	10/24/23 09:10	10/24/23 09:10			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 09:13  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-26

**Laboratory ID Number:** BD19595

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BD19602	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0975	0.0997	0.0960	0.0850 to 0.115	97.5	70.0 to 130	2.23	20.0
BD19601	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD19602	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0989	0.0987	0.0956	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BD19601	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.106	0.104	0.0977	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD19602	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.0972	0.0984	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.23	20.0
BD19601	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.0976	0.0979	0.0964	0.0850 to 0.115	97.3	70.0 to 130	0.307	20.0
BD19602	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.138	0.139	0.102	0.0850 to 0.115	99.7	70.0 to 130	0.722	20.0
BD19601	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.129	0.129	0.0994	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19602	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.108	0.106	0.0983	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD19601	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.105	0.103	0.100	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD19602	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	1.82	1.82	0.932	0.850 to 1.15	93.8	70.0 to 130	0.00	20.0
BD19601	Boron, Total	mg/L	-0.000014	0.0650	1.00	1.58	1.58	0.935	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD19602	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19601	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0917	0.0887	0.0908	0.0850 to 0.115	91.6	70.0 to 130	3.33	20.0
BD19602	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	80.7	84.5	5.00	4.25 to 5.75	-72.0	70.0 to 130	4.60	20.0
BD19601	Calcium, Total	mg/L	-0.0387	0.152	5.00	102	102	4.87	4.25 to 5.75	82.0	70.0 to 130	0.00	20.0
BD19600	Chloride	mg/L	0.00993	1.00	10.0	17.8	17.8	10.1	9.00 to 11.0	99.8	80.0 to 120	0.00	20.0
BD19602	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.0972	0.0984	0.0998	0.0850 to 0.115	97.2	70.0 to 130	1.23	20.0
BD19601	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.0986	0.0986	0.101	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD19602	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.119	0.120	0.104	0.0850 to 0.115	101	70.0 to 130	0.837	20.0
BD19601	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.115	0.115	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19602	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	1.38	1.37	0.193	0.170 to 0.230	95.0	70.0 to 130	0.727	20.0
BD19600	Iron, Total	mg/L	0.00152	0.0176	0.2	0.704	0.703	0.215	0.170 to 0.230	102	70.0 to 130	0.142	20.0
BD19602	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 09:13  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-26

**Laboratory ID Number:** BD19595

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19601	Lead, Total	mg/L	0.000063	0.000147	0.100	0.101	0.0980	0.100	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BD19602	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.728	0.726	0.192	0.170 to 0.230	97.5	70.0 to 130	0.275	20.0
BD19601	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.943	0.955	0.197	0.170 to 0.230	122	70.0 to 130	1.26	20.0
BD19602	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	23.8	23.9	4.89	4.25 to 5.75	98.0	70.0 to 130	0.419	20.0
BD19601	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	29.1	29.0	4.90	4.25 to 5.75	130	70.0 to 130	0.344	20.0
BD19602	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	2.14	2.17	0.104	0.0850 to 0.115	60.0	70.0 to 130	1.39	20.0
BD19601	Manganese, Total	mg/L	0.000806	0.00033	0.100	2.95	2.98	0.105	0.0850 to 0.115	0.00	70.0 to 130	1.01	20.0
BD19596	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00382	0.00383	0.00387	0.00340 to 0.00460	95.5	70.0 to 130	0.261	20.0
BD19602	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.199	0.198	0.197	0.170 to 0.230	99.5	70.0 to 130	0.504	20.0
BD19601	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.207	0.202	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BD19602	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	19.7	20.3	9.44	8.50 to 11.5	97.4	70.0 to 130	3.00	20.0
BD19601	Potassium, Total	mg/L	-0.00589	0.367	10.0	18.6	18.9	9.83	8.50 to 11.5	96.8	70.0 to 130	1.60	20.0
BD19602	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.101	0.0999	0.102	0.0850 to 0.115	101	70.0 to 130	1.10	20.0
BD19601	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.0994	0.0967	0.0988	0.0850 to 0.115	99.4	70.0 to 130	2.75	20.0
BD19602	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	6.23	6.23	0.968	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BD19601	Silicon, Total	mg/L	-0.00025	0.0440	1.00	4.27	4.28	0.971	0.850 to 1.15	118	70.0 to 130	0.234	20.0
BD19602	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	32.6	32.5	4.90	4.25 to 5.75	100	70.0 to 130	0.307	20.0
BD19601	Sodium, Total	mg/L	0.00116	0.0880	5.00	24.5	24.7	4.92	4.25 to 5.75	124	70.0 to 130	0.813	20.0
BD19599	Sulfate	mg/L	0.0864	2.0	20.0	18.7	18.4	19.8	18.0 to 22.0	89.2	80.0 to 120	1.62	20.0
BD19602	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.108	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19601	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.104	0.0998	0.102	0.0850 to 0.115	104	70.0 to 130	4.12	20.0
BD19601	Total Organic Carbon	mg/L	0.106	1.00	10.0	10.7	10.6	24.8		89.3	80.0 to 120	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 09:13  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-26

**Laboratory ID Number:** BD19595

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BD19592	Alkalinity	mg CaCO3/L					206	51.1	45.0 to 55.0			1.45	10.0
BD19600	Fluoride	mg/L	0.000000	0.0200	2.00	2.16	0.0961	2.06	1.80 to 2.20	103	80.0 to 120	1.34	20.0
BD19601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	1.95	0.031	1.85	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19594	Solids, Dissolved	mg/L	0.0000	25.0			652	47.0	40.0 to 60.0			1.52	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-27

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 10:05  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19596

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 11:30	11/1/23 15:18		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/26/23 11:30	11/1/23 15:18		1.015	1.47	mg/L	0.070035	0.406	
* Lithium, Total	10/26/23 11:30	11/1/23 15:18		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/26/23 11:30	11/1/23 15:18		1.015	0.649	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 11:30	11/1/23 15:18		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 15:18		1	9.97	mg/L			
* Silicon, Total	10/26/23 11:30	11/1/23 15:18		1.015	4.66	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 11:30	11/1/23 15:18		1.015	2.68	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Iron, Total	11/7/23 07:18	11/14/23 11:59		1.015	Not Detected	mg/L	0.008120	0.0406	U
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/26/23 08:50	11/1/23 13:40		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	10/26/23 08:50	11/1/23 13:40		1.015	1.32	mg/L	0.070035	0.406	
* Iron, Dissolved	10/26/23 08:50	11/1/23 13:40		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	10/26/23 08:50	11/1/23 13:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 13:40		1.015	0.597	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 13:40		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 13:40		1	10.1	mg/L			
* Silicon, Dissolved	10/26/23 08:50	11/1/23 13:40		1.015	4.72	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 08:50	11/1/23 13:40		1.015	2.64	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 11:30	10/26/23 17:43		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 11:30	10/26/23 17:43		1.015	0.0175	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/26/23 11:30	10/26/23 17:43		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	10/26/23 11:30	10/26/23 17:43		1.015	0.0791	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 11:30	10/26/23 17:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 11:30	10/26/23 17:43		1.015	0.000189	mg/L	0.000068	0.000203	J
* Chromium, Total	10/26/23 11:30	10/26/23 17:43		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/26/23 11:30	10/26/23 17:43		1.015	0.000152	mg/L	0.000068	0.000203	J
* Lead, Total	10/26/23 11:30	10/26/23 17:43		1.015	Not Detected	mg/L	0.000068	0.000203	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-27

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 10:05  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19596

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Manganese, Total	10/26/23 11:30	10/26/23 17:43		1.015	0.0170	mg/L	0.000152	0.001015	BB
* Potassium, Total	10/26/23 11:30	10/26/23 17:43		1.015	0.923	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 11:30	10/26/23 17:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 11:30	10/26/23 17:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 08:50	10/26/23 15:40		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 15:40		1.015	0.00938	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 15:40		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/26/23 08:50	10/26/23 15:40		1.015	0.0735	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 15:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 15:40		1.015	0.000188	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	10/26/23 08:50	10/26/23 15:40		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 15:40		1.015	0.000134	mg/L	0.000068	0.000203	J
* Lead, Dissolved	10/26/23 08:50	10/26/23 15:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 08:50	10/26/23 15:40		1.015	0.0161	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/26/23 08:50	10/26/23 15:40		1.015	0.940	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 08:50	10/26/23 15:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 08:50	10/26/23 15:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:19		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 05:07	11/15/23 05:07		1	Not Detected	mg/L	0.02	0.04	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:29	10/26/23 14:29		1	0.476	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 13:52	11/3/23 15:25		1	4.04	SU		2	
* Alkalinity	11/3/23 13:52	11/3/23 15:25		1	1.04	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 11:20	10/27/23 13:37		1	27.3	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	1.04	mg CaCO3/L		1	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-27

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 10:05  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19596

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Carbonate Alkalinity, (calc.)	11/3/23 13:52	11/3/23 15:25		1	Not Detected	mg CaCO3/L		0.5	
<i>Analytical Method: SM 5310 B</i>		<i>Analyst: JLR</i>							
* Total Organic Carbon	10/27/23 14:07	10/27/23 14:07		1	Not Detected	mg/L	1.00	2	U
<i>Analytical Method: SM4500Cl E</i>		<i>Analyst: JCC</i>							
* Chloride	10/30/23 15:16	10/30/23 15:16		1	2.08	mg/L	0.50	1	
<i>Analytical Method: SM4500SO4 E 2011</i>		<i>Analyst: JCC</i>							
* Sulfate	10/26/23 12:00	10/26/23 12:00		1	6.24	mg/L	0.6	2	
<i>Analytical Method: Field Measurements</i>		<i>Analyst: TJD</i>							
Conductivity	10/24/23 10:03	10/24/23 10:03			35.26	uS/cm			FA
pH	10/24/23 10:03	10/24/23 10:03			4.95	SU			FA
Temperature	10/24/23 10:03	10/24/23 10:03			19.55	C			FA
Turbidity	10/24/23 10:03	10/24/23 10:03			0.37	NTU			FA
Sulfide	10/24/23 10:03	10/24/23 10:03			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 10:05  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-27

**Laboratory ID Number:** BD19596

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD19602	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0975	0.0997	0.0960	0.0850 to 0.115	97.5	70.0 to 130	2.23	20.0	
BD19601	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0	
BD19602	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0989	0.0987	0.0956	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0	
BD19601	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.106	0.104	0.0977	0.0850 to 0.115	106	70.0 to 130	1.90	20.0	
BD19602	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.0972	0.0984	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.23	20.0	
BD19601	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.0976	0.0979	0.0964	0.0850 to 0.115	97.3	70.0 to 130	0.307	20.0	
BD19602	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.138	0.139	0.102	0.0850 to 0.115	99.7	70.0 to 130	0.722	20.0	
BD19601	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.129	0.129	0.0994	0.0850 to 0.115	103	70.0 to 130	0.00	20.0	
BD19602	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.108	0.106	0.0983	0.0850 to 0.115	108	70.0 to 130	1.87	20.0	
BD19601	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.105	0.103	0.100	0.0850 to 0.115	105	70.0 to 130	1.92	20.0	
BD19602	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	1.82	1.82	0.932	0.850 to 1.15	93.8	70.0 to 130	0.00	20.0	
BD19601	Boron, Total	mg/L	-0.000014	0.0650	1.00	1.58	1.58	0.935	0.850 to 1.15	105	70.0 to 130	0.00	20.0	
BD19602	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0	
BD19601	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0917	0.0887	0.0908	0.0850 to 0.115	91.6	70.0 to 130	3.33	20.0	
BD19602	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	80.7	84.5	5.00	4.25 to 5.75	-72.0	70.0 to 130	4.60	20.0	
BD19601	Calcium, Total	mg/L	-0.0387	0.152	5.00	102	102	4.87	4.25 to 5.75	82.0	70.0 to 130	0.00	20.0	
BD19600	Chloride	mg/L	0.00993	1.00	10.0	17.8	17.8	10.1	9.00 to 11.0	99.8	80.0 to 120	0.00	20.0	
BD19602	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.0972	0.0984	0.0998	0.0850 to 0.115	97.2	70.0 to 130	1.23	20.0	
BD19601	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.0986	0.0986	0.101	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0	
BD19602	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.119	0.120	0.104	0.0850 to 0.115	101	70.0 to 130	0.837	20.0	
BD19601	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.115	0.115	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0	
BD19602	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	1.38	1.37	0.193	0.170 to 0.230	95.0	70.0 to 130	0.727	20.0	
BD19600	Iron, Total	mg/L	0.00152	0.0176	0.2	0.704	0.703	0.215	0.170 to 0.230	102	70.0 to 130	0.142	20.0	
BD19602	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 10:05  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-27

**Laboratory ID Number:** BD19596

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19601	Lead, Total	mg/L	0.000063	0.000147	0.100	0.101	0.0980	0.100	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BD19602	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.728	0.726	0.192	0.170 to 0.230	97.5	70.0 to 130	0.275	20.0
BD19601	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.943	0.955	0.197	0.170 to 0.230	122	70.0 to 130	1.26	20.0
BD19602	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	23.8	23.9	4.89	4.25 to 5.75	98.0	70.0 to 130	0.419	20.0
BD19601	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	29.1	29.0	4.90	4.25 to 5.75	130	70.0 to 130	0.344	20.0
BD19602	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	2.14	2.17	0.104	0.0850 to 0.115	60.0	70.0 to 130	1.39	20.0
BD19601	Manganese, Total	mg/L	0.000806	0.00033	0.100	2.95	2.98	0.105	0.0850 to 0.115	0.00	70.0 to 130	1.01	20.0
BD19596	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00382	0.00383	0.00387	0.00340 to 0.00460	95.5	70.0 to 130	0.261	20.0
BD19602	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.199	0.198	0.197	0.170 to 0.230	99.5	70.0 to 130	0.504	20.0
BD19601	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.207	0.202	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BD19602	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	19.7	20.3	9.44	8.50 to 11.5	97.4	70.0 to 130	3.00	20.0
BD19601	Potassium, Total	mg/L	-0.00589	0.367	10.0	18.6	18.9	9.83	8.50 to 11.5	96.8	70.0 to 130	1.60	20.0
BD19602	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.101	0.0999	0.102	0.0850 to 0.115	101	70.0 to 130	1.10	20.0
BD19601	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.0994	0.0967	0.0988	0.0850 to 0.115	99.4	70.0 to 130	2.75	20.0
BD19602	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	6.23	6.23	0.968	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BD19601	Silicon, Total	mg/L	-0.00025	0.0440	1.00	4.27	4.28	0.971	0.850 to 1.15	118	70.0 to 130	0.234	20.0
BD19602	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	32.6	32.5	4.90	4.25 to 5.75	100	70.0 to 130	0.307	20.0
BD19601	Sodium, Total	mg/L	0.00116	0.0880	5.00	24.5	24.7	4.92	4.25 to 5.75	124	70.0 to 130	0.813	20.0
BD19599	Sulfate	mg/L	0.0864	2.0	20.0	18.7	18.4	19.8	18.0 to 22.0	89.2	80.0 to 120	1.62	20.0
BD19602	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.108	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19601	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.104	0.0998	0.102	0.0850 to 0.115	104	70.0 to 130	4.12	20.0
BD19601	Total Organic Carbon	mg/L	0.106	1.00	10.0	10.7	10.6	24.8		89.3	80.0 to 120	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 10:05  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-27

**Laboratory ID Number:** BD19596

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BD19592	Alkalinity	mg CaCO3/L					206	51.1	45.0 to 55.0			1.45	10.0
BD19600	Fluoride	mg/L	0.000000	0.0200	2.00	2.16	0.0961	2.06	1.80 to 2.20	103	80.0 to 120	1.34	20.0
BD19601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	1.95	0.031	1.85	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19759	Solids, Dissolved	mg/L	0.0000	25.0			1020	52.0	40.0 to 60.0			0.985	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-28

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 11:00  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19597

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 11:30	11/1/23 15:22		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/26/23 11:30	11/1/23 15:22		1.015	1.83	mg/L	0.070035	0.406	
* Lithium, Total	10/26/23 11:30	11/1/23 15:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/26/23 11:30	11/1/23 15:22		1.015	1.48	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 11:30	11/1/23 15:22		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 15:22		1	7.55	mg/L			
* Silicon, Total	10/26/23 11:30	11/1/23 15:22		1.015	3.53	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 11:30	11/1/23 15:22		1.015	1.34	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Iron, Total	11/7/23 07:18	11/14/23 12:03		1.015	Not Detected	mg/L	0.008120	0.0406	U
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/26/23 08:50	11/1/23 13:43		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	10/26/23 08:50	11/1/23 13:43		1.015	1.66	mg/L	0.070035	0.406	
* Iron, Dissolved	10/26/23 08:50	11/1/23 13:43		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	10/26/23 08:50	11/1/23 13:43		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 13:43		1.015	1.35	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 13:43		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 13:43		1	7.55	mg/L			
* Silicon, Dissolved	10/26/23 08:50	11/1/23 13:43		1.015	3.53	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 08:50	11/1/23 13:43		1.015	1.35	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 11:30	10/26/23 17:46		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 11:30	10/26/23 17:46		1.015	0.0481	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/26/23 11:30	10/26/23 17:46		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	10/26/23 11:30	10/26/23 17:46		1.015	0.183	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 11:30	10/26/23 17:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 11:30	10/26/23 17:46		1.015	0.000442	mg/L	0.000068	0.000203	
* Chromium, Total	10/26/23 11:30	10/26/23 17:46		1.015	0.000474	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/26/23 11:30	10/26/23 17:46		1.015	0.000258	mg/L	0.000068	0.000203	
* Lead, Total	10/26/23 11:30	10/26/23 17:46		1.015	Not Detected	mg/L	0.000068	0.000203	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-28

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 11:00  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19597

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Manganese, Total	10/26/23 11:30	10/26/23 17:46		1.015	0.0579	mg/L	0.000152	0.001015	BB
* Potassium, Total	10/26/23 11:30	10/26/23 17:46		1.015	1.51	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 11:30	10/26/23 17:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 11:30	10/26/23 17:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 08:50	10/26/23 15:44		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 15:44		1.015	0.0196	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 15:44		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/26/23 08:50	10/26/23 15:44		1.015	0.176	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 15:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 15:44		1.015	0.000355	mg/L	0.000068	0.000203	
* Chromium, Dissolved	10/26/23 08:50	10/26/23 15:44		1.015	0.000455	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 15:44		1.015	0.000205	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 08:50	10/26/23 15:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 08:50	10/26/23 15:44		1.015	0.0489	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/26/23 08:50	10/26/23 15:44		1.015	1.47	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 08:50	10/26/23 15:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 08:50	10/26/23 15:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:31		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 06:17	11/15/23 06:17		1	0.0218	mg/L	0.02	0.04	J
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:31	10/26/23 14:31		1	0.868	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/7/23 10:27	11/7/23 10:29		1	4.19	SU		2	
* Alkalinity	11/7/23 10:27	11/7/23 10:29		1	0.580	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 11:20	10/27/23 13:37		1	28.0	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/7/23 10:27	11/7/23 10:29		1	Not Detected	mg CaCO3/L		1	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-28

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 11:00  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19597

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Carbonate Alkalinity, (calc.)	11/7/23 10:27	11/7/23 10:29		1	Not Detected	mg CaCO3/L		0.5	
<i>Analytical Method: SM 5310 B</i>		<i>Analyst: JLR</i>							
* Total Organic Carbon	10/27/23 14:19	10/27/23 14:19		1	Not Detected	mg/L	1.00	2	U
<i>Analytical Method: SM4500Cl E</i>		<i>Analyst: JCC</i>							
* Chloride	10/30/23 15:17	10/30/23 15:17		1	1.28	mg/L	0.50	1	
<i>Analytical Method: SM4500SO4 E 2011</i>		<i>Analyst: JCC</i>							
* Sulfate	10/26/23 12:02	10/26/23 12:02		1	9.11	mg/L	0.6	2	
<i>Analytical Method: Field Measurements</i>		<i>Analyst: TJD</i>							
Conductivity	10/24/23 10:55	10/24/23 10:55			42.12	uS/cm			FA
pH	10/24/23 10:55	10/24/23 10:55			4.81	SU			FA
Temperature	10/24/23 10:55	10/24/23 10:55			19.49	C			FA
Turbidity	10/24/23 10:55	10/24/23 10:55			0.06	NTU			FA
Sulfide	10/24/23 10:55	10/24/23 10:55			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 11:00  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-28

**Laboratory ID Number:** BD19597

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
BD19602	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0975	0.0997	0.0960	0.0850 to 0.115	97.5	70.0 to 130	2.23	20.0
BD19601	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD19602	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0989	0.0987	0.0956	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BD19601	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.106	0.104	0.0977	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD19602	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.0972	0.0984	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.23	20.0
BD19601	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.0976	0.0979	0.0964	0.0850 to 0.115	97.3	70.0 to 130	0.307	20.0
BD19602	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.138	0.139	0.102	0.0850 to 0.115	99.7	70.0 to 130	0.722	20.0
BD19601	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.129	0.129	0.0994	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19602	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.108	0.106	0.0983	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD19601	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.105	0.103	0.100	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD19602	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	1.82	1.82	0.932	0.850 to 1.15	93.8	70.0 to 130	0.00	20.0
BD19601	Boron, Total	mg/L	-0.000014	0.0650	1.00	1.58	1.58	0.935	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD19602	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19601	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0917	0.0887	0.0908	0.0850 to 0.115	91.6	70.0 to 130	3.33	20.0
BD19602	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	80.7	84.5	5.00	4.25 to 5.75	-72.0	70.0 to 130	4.60	20.0
BD19601	Calcium, Total	mg/L	-0.0387	0.152	5.00	102	102	4.87	4.25 to 5.75	82.0	70.0 to 130	0.00	20.0
BD19600	Chloride	mg/L	0.00993	1.00	10.0	17.8	17.8	10.1	9.00 to 11.0	99.8	80.0 to 120	0.00	20.0
BD19602	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.0972	0.0984	0.0998	0.0850 to 0.115	97.2	70.0 to 130	1.23	20.0
BD19601	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.0986	0.0986	0.101	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD19602	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.119	0.120	0.104	0.0850 to 0.115	101	70.0 to 130	0.837	20.0
BD19601	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.115	0.115	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19602	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	1.38	1.37	0.193	0.170 to 0.230	95.0	70.0 to 130	0.727	20.0
BD19600	Iron, Total	mg/L	0.00152	0.0176	0.2	0.704	0.703	0.215	0.170 to 0.230	102	70.0 to 130	0.142	20.0
BD19602	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 11:00  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-28

**Laboratory ID Number:** BD19597

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19601	Lead, Total	mg/L	0.000063	0.000147	0.100	0.101	0.0980	0.100	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BD19602	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.728	0.726	0.192	0.170 to 0.230	97.5	70.0 to 130	0.275	20.0
BD19601	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.943	0.955	0.197	0.170 to 0.230	122	70.0 to 130	1.26	20.0
BD19602	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	23.8	23.9	4.89	4.25 to 5.75	98.0	70.0 to 130	0.419	20.0
BD19601	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	29.1	29.0	4.90	4.25 to 5.75	130	70.0 to 130	0.344	20.0
BD19602	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	2.14	2.17	0.104	0.0850 to 0.115	60.0	70.0 to 130	1.39	20.0
BD19601	Manganese, Total	mg/L	0.000806	0.00033	0.100	2.95	2.98	0.105	0.0850 to 0.115	0.00	70.0 to 130	1.01	20.0
BD19760	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00354	0.00349	0.00387	0.00340 to 0.00460	88.5	70.0 to 130	1.42	20.0
BD19602	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.199	0.198	0.197	0.170 to 0.230	99.5	70.0 to 130	0.504	20.0
BD19601	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.207	0.202	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BD19602	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	19.7	20.3	9.44	8.50 to 11.5	97.4	70.0 to 130	3.00	20.0
BD19601	Potassium, Total	mg/L	-0.00589	0.367	10.0	18.6	18.9	9.83	8.50 to 11.5	96.8	70.0 to 130	1.60	20.0
BD19602	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.101	0.0999	0.102	0.0850 to 0.115	101	70.0 to 130	1.10	20.0
BD19601	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.0994	0.0967	0.0988	0.0850 to 0.115	99.4	70.0 to 130	2.75	20.0
BD19602	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	6.23	6.23	0.968	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BD19601	Silicon, Total	mg/L	-0.00025	0.0440	1.00	4.27	4.28	0.971	0.850 to 1.15	118	70.0 to 130	0.234	20.0
BD19602	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	32.6	32.5	4.90	4.25 to 5.75	100	70.0 to 130	0.307	20.0
BD19601	Sodium, Total	mg/L	0.00116	0.0880	5.00	24.5	24.7	4.92	4.25 to 5.75	124	70.0 to 130	0.813	20.0
BD19599	Sulfate	mg/L	0.0864	2.0	20.0	18.7	18.4	19.8	18.0 to 22.0	89.2	80.0 to 120	1.62	20.0
BD19602	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.108	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19601	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.104	0.0998	0.102	0.0850 to 0.115	104	70.0 to 130	4.12	20.0
BD19601	Total Organic Carbon	mg/L	0.106	1.00	10.0	10.7	10.6	24.8		89.3	80.0 to 120	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 11:00  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-28

**Laboratory ID Number:** BD19597

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BD19763	Alkalinity	mg CaCO3/L					44.0	51.6	45.0 to 55.0			0.227	10.0
BD19600	Fluoride	mg/L	0.000000	0.0200	2.00	2.16	0.0961	2.06	1.80 to 2.20	103	80.0 to 120	1.34	20.0
BD19601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	1.95	0.031	1.85	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19759	Solids, Dissolved	mg/L	0.0000	25.0			1020	52.0	40.0 to 60.0			0.985	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-29

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 11:57  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19598

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	10/26/23 11:30	11/1/23 15:25		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/26/23 11:30	11/1/23 15:25		1.015	0.168	mg/L	0.070035	0.406	J	
* Lithium, Total	10/26/23 11:30	11/1/23 15:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/26/23 11:30	11/1/23 15:25		1.015	0.265	mg/L	0.021315	0.406	J	
* Molybdenum, Total	10/26/23 11:30	11/1/23 15:25		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 15:25		1	8.13	mg/L				
* Silicon, Total	10/26/23 11:30	11/1/23 15:25		1.015	3.80	mg/L	0.02030	0.25375		
* Sodium, Total	10/26/23 11:30	11/1/23 15:25		1.015	0.947	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Iron, Total	11/7/23 07:18	11/14/23 12:06		1.015	0.00902	mg/L	0.008120	0.0406	J	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	10/26/23 08:50	11/1/23 13:46		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	10/26/23 08:50	11/1/23 13:46		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Dissolved	10/26/23 08:50	11/1/23 13:46		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	10/26/23 08:50	11/1/23 13:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 13:46		1.015	Not Detected	mg/L	0.021315	0.406	U	
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 13:46		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 13:46		1	8.11	mg/L				
* Silicon, Dissolved	10/26/23 08:50	11/1/23 13:46		1.015	3.79	mg/L	0.02030	0.25375		
* Sodium, Dissolved	10/26/23 08:50	11/1/23 13:46		1.015	0.943	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	10/26/23 11:30	10/26/23 17:50		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	10/26/23 11:30	10/26/23 17:50		1.015	0.0221	mg/L	0.009135	0.05075	J	
* Arsenic, Total	10/26/23 11:30	10/26/23 17:50		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	10/26/23 11:30	10/26/23 17:50		1.015	0.0398	mg/L	0.000508	0.001015		
* Beryllium, Total	10/26/23 11:30	10/26/23 17:50		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/26/23 11:30	10/26/23 17:50		1.015	0.000109	mg/L	0.000068	0.000203	J	
* Chromium, Total	10/26/23 11:30	10/26/23 17:50		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	10/26/23 11:30	10/26/23 17:50		1.015	0.00102	mg/L	0.000068	0.000203		
* Lead, Total	10/26/23 11:30	10/26/23 17:50		1.015	Not Detected	mg/L	0.000068	0.000203	U	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-29

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 11:57  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19598

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Manganese, Total	10/26/23 11:30	10/26/23 17:50		1.015	0.0140	mg/L	0.000152	0.001015	BB
* Potassium, Total	10/26/23 11:30	10/26/23 17:50		1.015	0.916	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 11:30	10/26/23 17:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 11:30	10/26/23 17:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 08:50	10/26/23 15:48		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 15:48		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 15:48		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/26/23 08:50	10/26/23 15:48		1.015	0.00711	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 15:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 15:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/26/23 08:50	10/26/23 15:48		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 15:48		1.015	0.000107	mg/L	0.000068	0.000203	J
* Lead, Dissolved	10/26/23 08:50	10/26/23 15:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 08:50	10/26/23 15:48		1.015	0.00103	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/26/23 08:50	10/26/23 15:48		1.015	0.856	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 08:50	10/26/23 15:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 08:50	10/26/23 15:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:33		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 06:41	11/15/23 06:41		1	Not Detected	mg/L	0.02	0.04	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:33	10/26/23 14:33		1	0.432	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/7/23 10:29	11/7/23 10:32		1	4.19	SU		2	
* Alkalinity	11/7/23 10:29	11/7/23 10:32		1	0.180	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 11:20	10/27/23 13:37		1	Not Detected	mg/L		25	U
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/7/23 10:29	11/7/23 10:32		1	Not Detected	mg CaCO3/L		1	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-29

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 11:57  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19598

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Carbonate Alkalinity, (calc.)	11/7/23 10:29	11/7/23 10:32		1	Not Detected	mg CaCO3/L		0.5	
<i>Analytical Method: SM 5310 B</i>		<i>Analyst: JLR</i>							
* Total Organic Carbon	10/27/23 14:33	10/27/23 14:33		1	Not Detected	mg/L	1.00	2	U
<i>Analytical Method: SM4500Cl E</i>		<i>Analyst: JCC</i>							
* Chloride	10/30/23 15:18	10/30/23 15:18		1	1.16	mg/L	0.50	1	
<i>Analytical Method: SM4500SO4 E 2011</i>		<i>Analyst: JCC</i>							
* Sulfate	10/26/23 12:03	10/26/23 12:03		1	1.19	mg/L	0.6	2	J
<i>Analytical Method: Field Measurements</i>		<i>Analyst: TJD</i>							
Conductivity	10/24/23 11:53	10/24/23 11:53			7.38	uS/cm			FA
pH	10/24/23 11:53	10/24/23 11:53			4.99	SU			FA
Temperature	10/24/23 11:53	10/24/23 11:53			19.18	C			FA
Turbidity	10/24/23 11:53	10/24/23 11:53			0.28	NTU			FA
Sulfide	10/24/23 11:53	10/24/23 11:53			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 11:57  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-29

**Laboratory ID Number:** BD19598

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD19602	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0975	0.0997	0.0960	0.0850 to 0.115	97.5	70.0 to 130	2.23	20.0
BD19601	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD19602	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0989	0.0987	0.0956	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BD19601	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.106	0.104	0.0977	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD19602	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.0972	0.0984	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.23	20.0
BD19601	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.0976	0.0979	0.0964	0.0850 to 0.115	97.3	70.0 to 130	0.307	20.0
BD19602	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.138	0.139	0.102	0.0850 to 0.115	99.7	70.0 to 130	0.722	20.0
BD19601	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.129	0.129	0.0994	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19602	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.108	0.106	0.0983	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD19601	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.105	0.103	0.100	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD19602	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	1.82	1.82	0.932	0.850 to 1.15	93.8	70.0 to 130	0.00	20.0
BD19601	Boron, Total	mg/L	-0.000014	0.0650	1.00	1.58	1.58	0.935	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD19602	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19601	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0917	0.0887	0.0908	0.0850 to 0.115	91.6	70.0 to 130	3.33	20.0
BD19602	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	80.7	84.5	5.00	4.25 to 5.75	-72.0	70.0 to 130	4.60	20.0
BD19601	Calcium, Total	mg/L	-0.0387	0.152	5.00	102	102	4.87	4.25 to 5.75	82.0	70.0 to 130	0.00	20.0
BD19600	Chloride	mg/L	0.00993	1.00	10.0	17.8	17.8	10.1	9.00 to 11.0	99.8	80.0 to 120	0.00	20.0
BD19602	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.0972	0.0984	0.0998	0.0850 to 0.115	97.2	70.0 to 130	1.23	20.0
BD19601	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.0986	0.0986	0.101	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD19602	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.119	0.120	0.104	0.0850 to 0.115	101	70.0 to 130	0.837	20.0
BD19601	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.115	0.115	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19602	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	1.38	1.37	0.193	0.170 to 0.230	95.0	70.0 to 130	0.727	20.0
BD19600	Iron, Total	mg/L	0.00152	0.0176	0.2	0.704	0.703	0.215	0.170 to 0.230	102	70.0 to 130	0.142	20.0
BD19602	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 11:57  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-29

**Laboratory ID Number:** BD19598

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19601	Lead, Total	mg/L	0.000063	0.000147	0.100	0.101	0.0980	0.100	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BD19602	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.728	0.726	0.192	0.170 to 0.230	97.5	70.0 to 130	0.275	20.0
BD19601	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.943	0.955	0.197	0.170 to 0.230	122	70.0 to 130	1.26	20.0
BD19602	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	23.8	23.9	4.89	4.25 to 5.75	98.0	70.0 to 130	0.419	20.0
BD19601	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	29.1	29.0	4.90	4.25 to 5.75	130	70.0 to 130	0.344	20.0
BD19602	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	2.14	2.17	0.104	0.0850 to 0.115	60.0	70.0 to 130	1.39	20.0
BD19601	Manganese, Total	mg/L	0.000806	0.00033	0.100	2.95	2.98	0.105	0.0850 to 0.115	0.00	70.0 to 130	1.01	20.0
BD19760	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00354	0.00349	0.00387	0.00340 to 0.00460	88.5	70.0 to 130	1.42	20.0
BD19602	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.199	0.198	0.197	0.170 to 0.230	99.5	70.0 to 130	0.504	20.0
BD19601	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.207	0.202	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BD19602	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	19.7	20.3	9.44	8.50 to 11.5	97.4	70.0 to 130	3.00	20.0
BD19601	Potassium, Total	mg/L	-0.00589	0.367	10.0	18.6	18.9	9.83	8.50 to 11.5	96.8	70.0 to 130	1.60	20.0
BD19602	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.101	0.0999	0.102	0.0850 to 0.115	101	70.0 to 130	1.10	20.0
BD19601	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.0994	0.0967	0.0988	0.0850 to 0.115	99.4	70.0 to 130	2.75	20.0
BD19602	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	6.23	6.23	0.968	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BD19601	Silicon, Total	mg/L	-0.00025	0.0440	1.00	4.27	4.28	0.971	0.850 to 1.15	118	70.0 to 130	0.234	20.0
BD19602	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	32.6	32.5	4.90	4.25 to 5.75	100	70.0 to 130	0.307	20.0
BD19601	Sodium, Total	mg/L	0.00116	0.0880	5.00	24.5	24.7	4.92	4.25 to 5.75	124	70.0 to 130	0.813	20.0
BD19599	Sulfate	mg/L	0.0864	2.0	20.0	18.7	18.4	19.8	18.0 to 22.0	89.2	80.0 to 120	1.62	20.0
BD19602	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.108	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19601	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.104	0.0998	0.102	0.0850 to 0.115	104	70.0 to 130	4.12	20.0
BD19601	Total Organic Carbon	mg/L	0.106	1.00	10.0	10.7	10.6	24.8		89.3	80.0 to 120	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 11:57  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-29

**Laboratory ID Number:** BD19598

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19763	Alkalinity	mg CaCO3/L					44.0	51.6	45.0 to 55.0			0.227	10.0
BD19600	Fluoride	mg/L	0.000000	0.0200	2.00	2.16	0.0961	2.06	1.80 to 2.20	103	80.0 to 120	1.34	20.0
BD19601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	1.95	0.031	1.85	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19759	Solids, Dissolved	mg/L	0.0000	25.0			1020	52.0	40.0 to 60.0			0.985	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-30

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 12:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19599

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 11:30	11/1/23 15:28		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/26/23 11:30	11/1/23 15:28		1.015	0.529	mg/L	0.070035	0.406	
* Lithium, Total	10/26/23 11:30	11/1/23 15:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/26/23 11:30	11/1/23 15:28		1.015	0.105	mg/L	0.021315	0.406	J
* Molybdenum, Total	10/26/23 11:30	11/1/23 15:28		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 15:28		1	9.89	mg/L			
* Silicon, Total	10/26/23 11:30	11/1/23 15:28		1.015	4.62	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 11:30	11/1/23 15:28		1.015	4.68	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Iron, Total	11/7/23 07:18	11/14/23 12:09		1.015	Not Detected	mg/L	0.008120	0.0406	U
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/26/23 08:50	11/1/23 13:49		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	10/26/23 08:50	11/1/23 13:49		1.015	0.108	mg/L	0.070035	0.406	J
* Iron, Dissolved	10/26/23 08:50	11/1/23 13:49		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	10/26/23 08:50	11/1/23 13:49		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 13:49		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 13:49		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 13:49		1	9.89	mg/L			
* Silicon, Dissolved	10/26/23 08:50	11/1/23 13:49		1.015	4.62	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 08:50	11/1/23 13:49		1.015	4.87	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 11:30	10/26/23 17:54		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 11:30	10/26/23 17:54		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/26/23 11:30	10/26/23 17:54		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	10/26/23 11:30	10/26/23 17:54		1.015	0.0218	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 11:30	10/26/23 17:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 11:30	10/26/23 17:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/26/23 11:30	10/26/23 17:54		1.015	0.000221	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/26/23 11:30	10/26/23 17:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/26/23 11:30	10/26/23 17:54		1.015	Not Detected	mg/L	0.000068	0.000203	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-30

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 12:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19599

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Manganese, Total	10/31/23 15:20	11/2/23 15:23		1.015	0.00311	mg/L	0.000152	0.001015	
* Potassium, Total	10/26/23 11:30	10/26/23 17:54		1.015	0.572	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 11:30	10/26/23 17:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 11:30	10/26/23 17:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 08:50	10/26/23 15:52		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 15:52		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 15:52		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/26/23 08:50	10/26/23 15:52		1.015	0.00652	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 15:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 15:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/26/23 08:50	10/26/23 15:52		1.015	0.000208	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 15:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/26/23 08:50	10/26/23 15:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 08:50	10/26/23 15:52		1.015	0.000442	mg/L	0.000152	0.001015	J
* Potassium, Dissolved	10/26/23 08:50	10/26/23 15:52		1.015	0.579	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 08:50	10/26/23 15:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 08:50	10/26/23 15:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:35		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 07:04	11/15/23 07:04		1	Not Detected	mg/L	0.02	0.04	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:35	10/26/23 14:35		1	1.09	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/7/23 10:15	11/7/23 12:00		1	4.14	SU		2	
* Alkalinity	11/7/23 10:15	11/7/23 12:00		1	4.92	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 11:20	10/27/23 13:37		1	Not Detected	mg/L		25	U
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/7/23 10:15	11/7/23 12:00		1	4.92	mg CaCO3/L		1	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-30

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 12:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19599

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Carbonate Alkalinity, (calc.)	11/7/23 10:15	11/7/23 12:00		1	Not Detected	mg CaCO3/L		0.5	
<i>Analytical Method: SM 5310 B</i>		<i>Analyst: JLR</i>							
* Total Organic Carbon	10/27/23 14:45	10/27/23 14:45		1	Not Detected	mg/L	1.00	2	U
<i>Analytical Method: SM4500Cl E</i>		<i>Analyst: JCC</i>							
* Chloride	10/30/23 15:19	10/30/23 15:19		1	2.86	mg/L	0.50	1	
<i>Analytical Method: SM4500SO4 E 2011</i>		<i>Analyst: JCC</i>							
* Sulfate	10/26/23 12:04	10/26/23 12:04		1	0.867	mg/L	0.6	2	J
<i>Analytical Method: Field Measurements</i>		<i>Analyst: TJD</i>							
Conductivity	10/24/23 12:42	10/24/23 12:42			29.17	uS/cm			FA
pH	10/24/23 12:42	10/24/23 12:42			5.25	SU			FA
Temperature	10/24/23 12:42	10/24/23 12:42			19.31	C			FA
Turbidity	10/24/23 12:42	10/24/23 12:42			0.16	NTU			FA
Sulfide	10/24/23 12:42	10/24/23 12:42			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 12:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-30

**Laboratory ID Number:** BD19599

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD19602	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0975	0.0997	0.0960	0.0850 to 0.115	97.5	70.0 to 130	2.23	20.0
BD19601	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD19602	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0989	0.0987	0.0956	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BD19601	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.106	0.104	0.0977	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD19602	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.0972	0.0984	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.23	20.0
BD19601	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.0976	0.0979	0.0964	0.0850 to 0.115	97.3	70.0 to 130	0.307	20.0
BD19602	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.138	0.139	0.102	0.0850 to 0.115	99.7	70.0 to 130	0.722	20.0
BD19601	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.129	0.129	0.0994	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19602	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.108	0.106	0.0983	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD19601	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.105	0.103	0.100	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD19602	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	1.82	1.82	0.932	0.850 to 1.15	93.8	70.0 to 130	0.00	20.0
BD19601	Boron, Total	mg/L	-0.000014	0.0650	1.00	1.58	1.58	0.935	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD19602	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19601	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0917	0.0887	0.0908	0.0850 to 0.115	91.6	70.0 to 130	3.33	20.0
BD19602	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	80.7	84.5	5.00	4.25 to 5.75	-72.0	70.0 to 130	4.60	20.0
BD19601	Calcium, Total	mg/L	-0.0387	0.152	5.00	102	102	4.87	4.25 to 5.75	82.0	70.0 to 130	0.00	20.0
BD19600	Chloride	mg/L	0.00993	1.00	10.0	17.8	17.8	10.1	9.00 to 11.0	99.8	80.0 to 120	0.00	20.0
BD19602	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.0972	0.0984	0.0998	0.0850 to 0.115	97.2	70.0 to 130	1.23	20.0
BD19601	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.0986	0.0986	0.101	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD19602	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.119	0.120	0.104	0.0850 to 0.115	101	70.0 to 130	0.837	20.0
BD19601	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.115	0.115	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19602	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	1.38	1.37	0.193	0.170 to 0.230	95.0	70.0 to 130	0.727	20.0
BD19600	Iron, Total	mg/L	0.00152	0.0176	0.2	0.704	0.703	0.215	0.170 to 0.230	102	70.0 to 130	0.142	20.0
BD19602	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 12:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-30

**Laboratory ID Number:** BD19599

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19601	Lead, Total	mg/L	0.000063	0.000147	0.100	0.101	0.0980	0.100	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BD19602	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.728	0.726	0.192	0.170 to 0.230	97.5	70.0 to 130	0.275	20.0
BD19601	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.943	0.955	0.197	0.170 to 0.230	122	70.0 to 130	1.26	20.0
BD19602	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	23.8	23.9	4.89	4.25 to 5.75	98.0	70.0 to 130	0.419	20.0
BD19601	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	29.1	29.0	4.90	4.25 to 5.75	130	70.0 to 130	0.344	20.0
BD19602	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	2.14	2.17	0.104	0.0850 to 0.115	60.0	70.0 to 130	1.39	20.0
BD19599	Manganese, Total	mg/L	0.0000025	0.00033	0.100	0.111	0.108	0.109	0.0850 to 0.115	108	70.0 to 130	2.74	20.0
BD19760	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00354	0.00349	0.00387	0.00340 to 0.00460	88.5	70.0 to 130	1.42	20.0
BD19602	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.199	0.198	0.197	0.170 to 0.230	99.5	70.0 to 130	0.504	20.0
BD19601	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.207	0.202	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BD19602	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	19.7	20.3	9.44	8.50 to 11.5	97.4	70.0 to 130	3.00	20.0
BD19601	Potassium, Total	mg/L	-0.00589	0.367	10.0	18.6	18.9	9.83	8.50 to 11.5	96.8	70.0 to 130	1.60	20.0
BD19602	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.101	0.0999	0.102	0.0850 to 0.115	101	70.0 to 130	1.10	20.0
BD19601	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.0994	0.0967	0.0988	0.0850 to 0.115	99.4	70.0 to 130	2.75	20.0
BD19602	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	6.23	6.23	0.968	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BD19601	Silicon, Total	mg/L	-0.00025	0.0440	1.00	4.27	4.28	0.971	0.850 to 1.15	118	70.0 to 130	0.234	20.0
BD19602	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	32.6	32.5	4.90	4.25 to 5.75	100	70.0 to 130	0.307	20.0
BD19601	Sodium, Total	mg/L	0.00116	0.0880	5.00	24.5	24.7	4.92	4.25 to 5.75	124	70.0 to 130	0.813	20.0
BD19599	Sulfate	mg/L	0.0864	2.0	20.0	18.7	18.4	19.8	18.0 to 22.0	89.2	80.0 to 120	1.62	20.0
BD19602	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.108	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19601	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.104	0.0998	0.102	0.0850 to 0.115	104	70.0 to 130	4.12	20.0
BD19601	Total Organic Carbon	mg/L	0.106	1.00	10.0	10.7	10.6	24.8		89.3	80.0 to 120	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 12:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-30

**Laboratory ID Number:** BD19599

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19763	Alkalinity	mg CaCO3/L					44.0	51.6	45.0 to 55.0			0.227	10.0
BD19600	Fluoride	mg/L	0.000000	0.0200	2.00	2.16	0.0961	2.06	1.80 to 2.20	103	80.0 to 120	1.34	20.0
BD19601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	1.95	0.031	1.85	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19759	Solids, Dissolved	mg/L	0.0000	25.0			1020	52.0	40.0 to 60.0			0.985	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-40H

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 14:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19600

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 11:30	11/1/23 15:31		1.015	0.522	mg/L	0.030000	0.1015	
* Calcium, Total	10/26/23 11:30	11/1/23 20:26		10.15	96.0	mg/L	0.70035	4.06	
* Lithium, Total	10/26/23 11:30	11/1/23 15:31		1.015	0.681	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/26/23 11:30	11/1/23 15:31		1.015	22.3	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 11:30	11/1/23 15:31		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 15:31		1	6.57	mg/L			
* Silicon, Total	10/26/23 11:30	11/1/23 15:31		1.015	3.07	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 11:30	11/1/23 15:31		1.015	17.9	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Iron, Total	11/7/23 07:18	11/14/23 12:12		1.015	0.499	mg/L	0.008120	0.0406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/26/23 08:50	11/1/23 13:52		1.015	0.529	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/26/23 08:50	11/1/23 18:54		10.15	96.0	mg/L	0.70035	4.06	
* Iron, Dissolved	10/26/23 08:50	11/1/23 13:52		1.015	0.431	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/26/23 08:50	11/1/23 13:52		1.015	0.688	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 13:52		1.015	22.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 13:52		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 13:52		1	6.63	mg/L			
* Silicon, Dissolved	10/26/23 08:50	11/1/23 13:52		1.015	3.10	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 08:50	11/1/23 13:52		1.015	18.4	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 11:30	10/26/23 17:57		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 11:30	10/26/23 17:57		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/26/23 11:30	10/26/23 17:57		1.015	0.000305	mg/L	0.000112	0.000203	
* Barium, Total	10/26/23 11:30	10/26/23 17:57		1.015	0.0260	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 11:30	10/26/23 17:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 11:30	10/26/23 17:57		1.015	0.000142	mg/L	0.000068	0.000203	J
* Chromium, Total	10/26/23 11:30	10/26/23 17:57		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/26/23 11:30	10/26/23 17:57		1.015	0.0123	mg/L	0.000068	0.000203	
* Lead, Total	10/26/23 11:30	10/26/23 17:57		1.015	Not Detected	mg/L	0.000068	0.000203	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-40H

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 14:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19600

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
* Manganese, Total	10/26/23 11:30	10/31/23 13:15		5.075	2.97	mg/L	0.000761	0.005075	BB	
* Potassium, Total	10/26/23 11:30	10/26/23 17:57		1.015	8.87	mg/L	0.169505	0.5075		
* Selenium, Total	10/26/23 11:30	10/26/23 17:57		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	10/26/23 11:30	10/26/23 17:57		1.015	0.000120	mg/L	0.000068	0.000203	J	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>								
* Antimony, Dissolved	10/26/23 08:50	10/26/23 15:55		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 15:55		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 15:55		1.015	0.000354	mg/L	0.000112	0.000203		
* Barium, Dissolved	10/26/23 08:50	10/26/23 15:55		1.015	0.0261	mg/L	0.000508	0.001015		
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 15:55		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 15:55		1.015	0.000146	mg/L	0.000068	0.000203	J	
* Chromium, Dissolved	10/26/23 08:50	10/26/23 15:55		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 15:55		1.015	0.0126	mg/L	0.000068	0.000203		
* Lead, Dissolved	10/26/23 08:50	10/26/23 15:55		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Dissolved	10/26/23 08:50	10/30/23 13:04		5.075	2.84	mg/L	0.000761	0.005075		
* Potassium, Dissolved	10/26/23 08:50	10/26/23 15:55		1.015	8.77	mg/L	0.169505	0.5075		
* Selenium, Dissolved	10/26/23 08:50	10/26/23 15:55		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Dissolved	10/26/23 08:50	10/26/23 15:55		1.015	0.000123	mg/L	0.000068	0.000203	J	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>								
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:38		1	Not Detected	mg/L	0.0003	0.0005	U	
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>								
* Fluoride	11/15/23 07:27	11/15/23 07:27		1	0.0974	mg/L	0.02	0.04		
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>								
* Nitrogen, Nitrate/Nitrite	10/26/23 14:36	10/26/23 14:36		1	Not Detected	mg/L as N	0.20	0.3	U	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>								
Alkalinity pH Endpoint	11/7/23 10:15	11/7/23 12:00		1	4.51	SU		2		
* Alkalinity	11/7/23 10:15	11/7/23 12:00		1	91.3	mg CaCO3/L		0.10		
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>								
* Solids, Dissolved	10/26/23 11:20	10/27/23 13:37		1	462	mg/L		25		
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>								
* Bicarbonate Alkalinity, (calc.)	11/7/23 10:15	11/7/23 12:00		1	91.3	mg CaCO3/L		1		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-40H

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 14:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19600

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Carbonate Alkalinity, (calc.)	11/7/23 10:15	11/7/23 12:00		1	Not Detected	mg CaCO3/L		0.5	
<i>Analytical Method: SM 5310 B</i>		<i>Analyst: JLR</i>							
* Total Organic Carbon	10/27/23 14:58	10/27/23 14:58		1	1.77	mg/L	1.00	2	J
<i>Analytical Method: SM4500Cl E</i>		<i>Analyst: JCC</i>							
* Chloride	10/30/23 15:21	10/30/23 15:21		1	7.82	mg/L	0.50	1	
<i>Analytical Method: SM4500SO4 E 2011</i>		<i>Analyst: JCC</i>							
* Sulfate	10/26/23 12:26	10/26/23 12:26		16	234	mg/L	9.6	32	
<i>Analytical Method: Field Measurements</i>		<i>Analyst: TJD</i>							
Conductivity	10/24/23 14:43	10/24/23 14:43			645.17	uS/cm			FA
pH	10/24/23 14:43	10/24/23 14:43			5.78	SU			FA
Temperature	10/24/23 14:43	10/24/23 14:43			19.60	C			FA
Turbidity	10/24/23 14:43	10/24/23 14:43			0.18	NTU			FA
Sulfide	10/24/23 14:43	10/24/23 14:43			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 14:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-40H

**Laboratory ID Number:** BD19600

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19602	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0975	0.0997	0.0960	0.0850 to 0.115	97.5	70.0 to 130	2.23	20.0
BD19601	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD19602	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0989	0.0987	0.0956	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BD19601	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.106	0.104	0.0977	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD19602	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.0972	0.0984	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.23	20.0
BD19601	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.0976	0.0979	0.0964	0.0850 to 0.115	97.3	70.0 to 130	0.307	20.0
BD19602	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.138	0.139	0.102	0.0850 to 0.115	99.7	70.0 to 130	0.722	20.0
BD19601	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.129	0.129	0.0994	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19602	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.108	0.106	0.0983	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD19601	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.105	0.103	0.100	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD19602	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	1.82	1.82	0.932	0.850 to 1.15	93.8	70.0 to 130	0.00	20.0
BD19601	Boron, Total	mg/L	-0.000014	0.0650	1.00	1.58	1.58	0.935	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD19602	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19601	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0917	0.0887	0.0908	0.0850 to 0.115	91.6	70.0 to 130	3.33	20.0
BD19602	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	80.7	84.5	5.00	4.25 to 5.75	-72.0	70.0 to 130	4.60	20.0
BD19601	Calcium, Total	mg/L	-0.0387	0.152	5.00	102	102	4.87	4.25 to 5.75	82.0	70.0 to 130	0.00	20.0
BD19600	Chloride	mg/L	0.00993	1.00	10.0	17.8	17.8	10.1	9.00 to 11.0	99.8	80.0 to 120	0.00	20.0
BD19602	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.0972	0.0984	0.0998	0.0850 to 0.115	97.2	70.0 to 130	1.23	20.0
BD19601	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.0986	0.0986	0.101	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD19602	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.119	0.120	0.104	0.0850 to 0.115	101	70.0 to 130	0.837	20.0
BD19601	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.115	0.115	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19602	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	1.38	1.37	0.193	0.170 to 0.230	95.0	70.0 to 130	0.727	20.0
BD19600	Iron, Total	mg/L	0.00152	0.0176	0.2	0.704	0.703	0.215	0.170 to 0.230	102	70.0 to 130	0.142	20.0
BD19602	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 14:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-40H

**Laboratory ID Number:** BD19600

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19601	Lead, Total	mg/L	0.000063	0.000147	0.100	0.101	0.0980	0.100	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BD19602	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.728	0.726	0.192	0.170 to 0.230	97.5	70.0 to 130	0.275	20.0
BD19601	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.943	0.955	0.197	0.170 to 0.230	122	70.0 to 130	1.26	20.0
BD19602	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	23.8	23.9	4.89	4.25 to 5.75	98.0	70.0 to 130	0.419	20.0
BD19601	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	29.1	29.0	4.90	4.25 to 5.75	130	70.0 to 130	0.344	20.0
BD19602	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	2.14	2.17	0.104	0.0850 to 0.115	60.0	70.0 to 130	1.39	20.0
BD19601	Manganese, Total	mg/L	0.000806	0.00033	0.100	2.95	2.98	0.105	0.0850 to 0.115	0.00	70.0 to 130	1.01	20.0
BD19760	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00354	0.00349	0.00387	0.00340 to 0.00460	88.5	70.0 to 130	1.42	20.0
BD19602	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.199	0.198	0.197	0.170 to 0.230	99.5	70.0 to 130	0.504	20.0
BD19601	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.207	0.202	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BD19602	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	19.7	20.3	9.44	8.50 to 11.5	97.4	70.0 to 130	3.00	20.0
BD19601	Potassium, Total	mg/L	-0.00589	0.367	10.0	18.6	18.9	9.83	8.50 to 11.5	96.8	70.0 to 130	1.60	20.0
BD19602	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.101	0.0999	0.102	0.0850 to 0.115	101	70.0 to 130	1.10	20.0
BD19601	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.0994	0.0967	0.0988	0.0850 to 0.115	99.4	70.0 to 130	2.75	20.0
BD19602	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	6.23	6.23	0.968	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BD19601	Silicon, Total	mg/L	-0.00025	0.0440	1.00	4.27	4.28	0.971	0.850 to 1.15	118	70.0 to 130	0.234	20.0
BD19602	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	32.6	32.5	4.90	4.25 to 5.75	100	70.0 to 130	0.307	20.0
BD19601	Sodium, Total	mg/L	0.00116	0.0880	5.00	24.5	24.7	4.92	4.25 to 5.75	124	70.0 to 130	0.813	20.0
BD19603	Sulfate	mg/L	0.00491	2.0	20.0	19.3	19.2	19.8	18.0 to 22.0	96.5	80.0 to 120	0.519	20.0
BD19602	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.108	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19601	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.104	0.0998	0.102	0.0850 to 0.115	104	70.0 to 130	4.12	20.0
BD19601	Total Organic Carbon	mg/L	0.106	1.00	10.0	10.7	10.6	24.8		89.3	80.0 to 120	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 14:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-40H

**Laboratory ID Number:** BD19600

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19763	Alkalinity	mg CaCO3/L					44.0	51.6	45.0 to 55.0			0.227	10.0
BD19600	Fluoride	mg/L	0.000000	0.0200	2.00	2.16	0.0961	2.06	1.80 to 2.20	103	80.0 to 120	1.34	20.0
BD19601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	1.95	0.031	1.85	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19759	Solids, Dissolved	mg/L	0.0000	25.0			1020	52.0	40.0 to 60.0			0.985	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-40H Dup

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 14:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19601

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 11:30	11/1/23 15:34		1.015	0.527	mg/L	0.030000	0.1015	
* Calcium, Total	10/26/23 11:30	11/1/23 20:29		10.15	97.9	mg/L	0.70035	4.06	
* Iron, Total	10/26/23 11:30	11/1/23 15:34		1.015	0.469	mg/L	0.008120	0.0406	BB
* Lithium, Total	10/26/23 11:30	11/1/23 15:34		1.015	0.699	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/26/23 11:30	11/1/23 15:34		1.015	22.6	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 11:30	11/1/23 15:34		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 15:34		1	6.61	mg/L			
* Silicon, Total	10/26/23 11:30	11/1/23 15:34		1.015	3.09	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 11:30	11/1/23 15:34		1.015	18.3	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/26/23 08:50	11/1/23 13:56		1.015	0.529	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/26/23 08:50	11/1/23 18:58		10.15	83.5	mg/L	0.70035	4.06	
* Iron, Dissolved	10/26/23 08:50	11/1/23 13:56		1.015	0.428	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/26/23 08:50	11/1/23 13:56		1.015	0.709	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 13:56		1.015	23.0	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 13:56		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 13:56		1	6.63	mg/L			
* Silicon, Dissolved	10/26/23 08:50	11/1/23 13:56		1.015	3.10	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 08:50	11/1/23 13:56		1.015	18.3	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 11:30	10/26/23 18:01		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 11:30	10/26/23 18:01		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/26/23 11:30	10/26/23 18:01		1.015	0.000322	mg/L	0.000112	0.000203	
* Barium, Total	10/26/23 11:30	10/26/23 18:01		1.015	0.0264	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 11:30	10/26/23 18:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 11:30	10/26/23 18:01		1.015	0.000142	mg/L	0.000068	0.000203	J
* Chromium, Total	10/26/23 11:30	10/26/23 18:01		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/26/23 11:30	10/26/23 18:01		1.015	0.0124	mg/L	0.000068	0.000203	
* Lead, Total	10/26/23 11:30	10/26/23 18:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/26/23 11:30	10/30/23 14:36		5.075	2.95	mg/L	0.000761	0.005075	BB

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Total Manganese matrix spike is invalid due to sample concentration.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-40H Dup

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 14:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19601

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 11:30	10/26/23 18:01		1.015	8.92	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 11:30	10/26/23 18:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 11:30	10/26/23 18:01		1.015	0.000152	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 08:50	10/26/23 15:59		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 15:59		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 15:59		1.015	0.000306	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/26/23 08:50	10/26/23 15:59		1.015	0.0257	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 15:59		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 15:59		1.015	0.000138	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	10/26/23 08:50	10/26/23 15:59		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 15:59		1.015	0.0120	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 08:50	10/26/23 15:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 08:50	10/30/23 13:19		5.075	2.80	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/26/23 08:50	10/26/23 15:59		1.015	8.70	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 08:50	10/26/23 15:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 08:50	10/26/23 15:59		1.015	0.000138	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:40		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 08:38	11/15/23 08:38		1	0.0926	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:38	10/26/23 14:38		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/7/23 10:15	11/7/23 12:00		1	4.50	SU		2	
* Alkalinity	11/7/23 10:15	11/7/23 12:00		1	92.8	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 11:20	10/27/23 13:37		1	470	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/7/23 10:15	11/7/23 12:00		1	92.8	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/7/23 10:15	11/7/23 12:00		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Total Manganese matrix spike is invalid due to sample concentration.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-40H Dup

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 14:45  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19601

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 15:13	10/27/23 15:13		1	1.77	mg/L	1.00	2	J
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 15:38	10/30/23 15:38		1	8.40	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 12:27	10/26/23 12:27		16	234	mg/L	9.6	32	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	10/24/23 14:43	10/24/23 14:43			645.17	uS/cm			FA
pH	10/24/23 14:43	10/24/23 14:43			5.78	SU			FA
Temperature	10/24/23 14:43	10/24/23 14:43			19.60	C			FA
Turbidity	10/24/23 14:43	10/24/23 14:43			0.18	NTU			FA
Sulfide	10/24/23 14:43	10/24/23 14:43			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Total Manganese matrix spike is invalid due to sample concentration.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 14:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-40H Dup

**Laboratory ID Number:** BD19601

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard		Rec		Prec
				Limit	Spike				Limit	Limit	Rec	Limit	
BD19602	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0975	0.0997	0.0960	0.0850 to 0.115	97.5	70.0 to 130	2.23	20.0
BD19601	Aluminum, Total	mg/L	0.000954	0.0198	0.100	0.102	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BD19602	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0989	0.0987	0.0956	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BD19601	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.106	0.104	0.0977	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BD19602	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.0972	0.0984	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.23	20.0
BD19601	Arsenic, Total	mg/L	0.0000472	0.000200	0.100	0.0976	0.0979	0.0964	0.0850 to 0.115	97.3	70.0 to 130	0.307	20.0
BD19602	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.138	0.139	0.102	0.0850 to 0.115	99.7	70.0 to 130	0.722	20.0
BD19601	Barium, Total	mg/L	0.0000102	0.00100	0.100	0.129	0.129	0.0994	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19602	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.108	0.106	0.0983	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD19601	Beryllium, Total	mg/L	0.0000123	0.000880	0.100	0.105	0.103	0.100	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BD19602	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	1.82	1.82	0.932	0.850 to 1.15	93.8	70.0 to 130	0.00	20.0
BD19601	Boron, Total	mg/L	-0.000014	0.0650	1.00	1.58	1.58	0.935	0.850 to 1.15	105	70.0 to 130	0.00	20.0
BD19602	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19601	Cadmium, Total	mg/L	0.0000088	0.000147	0.100	0.0917	0.0887	0.0908	0.0850 to 0.115	91.6	70.0 to 130	3.33	20.0
BD19602	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	80.7	84.5	5.00	4.25 to 5.75	-72.0	70.0 to 130	4.60	20.0
BD19601	Calcium, Total	mg/L	-0.0387	0.152	5.00	102	102	4.87	4.25 to 5.75	82.0	70.0 to 130	0.00	20.0
BD19764	Chloride	mg/L	0.0898	1.00	40.0	79.0	79.6	9.88	9.00 to 11.0	94.8	80.0 to 120	0.757	20.0
BD19602	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.0972	0.0984	0.0998	0.0850 to 0.115	97.2	70.0 to 130	1.23	20.0
BD19601	Chromium, Total	mg/L	-0.0000595	0.000440	0.100	0.0986	0.0986	0.101	0.0850 to 0.115	98.6	70.0 to 130	0.00	20.0
BD19602	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.119	0.120	0.104	0.0850 to 0.115	101	70.0 to 130	0.837	20.0
BD19601	Cobalt, Total	mg/L	-0.0000199	0.000147	0.100	0.115	0.115	0.105	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD19602	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	1.38	1.37	0.193	0.170 to 0.230	95.0	70.0 to 130	0.727	20.0
BD19601	Iron, Total	mg/L	0.0463	0.0176	0.2	0.681	0.678	0.195	0.170 to 0.230	106	70.0 to 130	0.442	20.0
BD19602	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Total Manganese matrix spike is invalid due to sample concentration.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 14:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-40H Dup

**Laboratory ID Number:** BD19601

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD19601	Lead, Total	mg/L	0.000063	0.000147	0.100	0.101	0.0980	0.100	0.0850 to 0.115	101	70.0 to 130	3.02	20.0
BD19602	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.728	0.726	0.192	0.170 to 0.230	97.5	70.0 to 130	0.275	20.0
BD19601	Lithium, Total	mg/L	0.000655	0.0154	0.200	0.943	0.955	0.197	0.170 to 0.230	122	70.0 to 130	1.26	20.0
BD19602	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	23.8	23.9	4.89	4.25 to 5.75	98.0	70.0 to 130	0.419	20.0
BD19601	Magnesium, Total	mg/L	-0.0254	0.0462	5.00	29.1	29.0	4.90	4.25 to 5.75	130	70.0 to 130	0.344	20.0
BD19602	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	2.14	2.17	0.104	0.0850 to 0.115	60.0	70.0 to 130	1.39	20.0
BD19601	Manganese, Total	mg/L	0.000806	0.00033	0.100	2.95	2.98	0.105	0.0850 to 0.115	0.00	70.0 to 130	1.01	20.0
BD19760	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00354	0.00349	0.00387	0.00340 to 0.00460	88.5	70.0 to 130	1.42	20.0
BD19602	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.199	0.198	0.197	0.170 to 0.230	99.5	70.0 to 130	0.504	20.0
BD19601	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.209	0.207	0.202	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BD19602	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	19.7	20.3	9.44	8.50 to 11.5	97.4	70.0 to 130	3.00	20.0
BD19601	Potassium, Total	mg/L	-0.00589	0.367	10.0	18.6	18.9	9.83	8.50 to 11.5	96.8	70.0 to 130	1.60	20.0
BD19602	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.101	0.0999	0.102	0.0850 to 0.115	101	70.0 to 130	1.10	20.0
BD19601	Selenium, Total	mg/L	0.0000216	0.00100	0.100	0.0994	0.0967	0.0988	0.0850 to 0.115	99.4	70.0 to 130	2.75	20.0
BD19602	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	6.23	6.23	0.968	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BD19601	Silicon, Total	mg/L	-0.00025	0.0440	1.00	4.27	4.28	0.971	0.850 to 1.15	118	70.0 to 130	0.234	20.0
BD19602	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	32.6	32.5	4.90	4.25 to 5.75	100	70.0 to 130	0.307	20.0
BD19601	Sodium, Total	mg/L	0.00116	0.0880	5.00	24.5	24.7	4.92	4.25 to 5.75	124	70.0 to 130	0.813	20.0
BD19603	Sulfate	mg/L	0.00491	2.0	20.0	19.3	19.2	19.8	18.0 to 22.0	96.5	80.0 to 120	0.519	20.0
BD19602	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.108	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19601	Thallium, Total	mg/L	-0.0000290	0.000147	0.100	0.104	0.0998	0.102	0.0850 to 0.115	104	70.0 to 130	4.12	20.0
BD19601	Total Organic Carbon	mg/L	0.106	1.00	10.0	10.7	10.6	24.8		89.3	80.0 to 120	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Total Manganese matrix spike is invalid due to sample concentration.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 14:45  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-40H Dup

**Laboratory ID Number:** BD19601

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD19763	Alkalinity	mg CaCO3/L					44.0	51.6	45.0 to 55.0			0.227	10.0
BD19764	Fluoride	mg/L	0.000000	0.0200	2.00	2.17	0.113	2.06	1.80 to 2.20	103	80.0 to 120	0.889	20.0
BD19601	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	1.95	0.031	1.85	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19759	Solids, Dissolved	mg/L	0.0000	25.0			1020	52.0	40.0 to 60.0			0.985	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Total Manganese matrix spike is invalid due to sample concentration.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-15

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 16:05  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19602

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 11:30	11/1/23 15:57		1.015	0.877	mg/L	0.030000	0.1015	
* Calcium, Total	10/26/23 11:30	11/1/23 20:39		10.15	87.4	mg/L	0.70035	4.06	
* Iron, Total	10/26/23 11:30	11/1/23 15:57		1.015	1.18	mg/L	0.008120	0.0406	
* Lithium, Total	10/26/23 11:30	11/1/23 15:57		1.015	0.542	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/26/23 11:30	11/1/23 15:57		1.015	18.9	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 11:30	11/1/23 15:57		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 15:57		1	11.3	mg/L			
* Silicon, Total	10/26/23 11:30	11/1/23 15:57		1.015	5.29	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 11:30	11/1/23 15:57		1.015	28.1	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/26/23 08:50	11/1/23 13:59		1.015	0.882	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/26/23 08:50	11/1/23 19:01		10.15	84.3	mg/L	0.70035	4.06	RA
* Iron, Dissolved	10/26/23 08:50	11/1/23 13:59		1.015	1.19	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/26/23 08:50	11/1/23 13:59		1.015	0.533	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/26/23 08:50	11/1/23 13:59		1.015	18.9	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 08:50	11/1/23 13:59		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/26/23 08:50	11/1/23 13:59		1	11.3	mg/L			
* Silicon, Dissolved	10/26/23 08:50	11/1/23 13:59		1.015	5.28	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 08:50	11/1/23 13:59		1.015	27.6	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 11:30	10/26/23 18:31		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 11:30	10/26/23 18:31		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/26/23 11:30	10/26/23 18:31		1.015	0.000448	mg/L	0.000112	0.000203	
* Barium, Total	10/26/23 11:30	10/26/23 18:31		1.015	0.0399	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 11:30	10/26/23 18:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 11:30	10/26/23 18:31		1.015	0.000123	mg/L	0.000068	0.000203	J
* Chromium, Total	10/26/23 11:30	10/26/23 18:31		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/26/23 11:30	10/26/23 18:31		1.015	0.0192	mg/L	0.000068	0.000203	
* Lead, Total	10/26/23 11:30	10/26/23 18:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/26/23 11:30	10/30/23 14:47		5.075	2.09	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-15

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 16:05  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19602

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 11:30	10/26/23 18:31		1.015	10.2	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 11:30	10/26/23 18:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 11:30	10/26/23 18:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 08:50	10/26/23 16:03		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 08:50	10/26/23 16:03		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/26/23 08:50	10/26/23 16:03		1.015	0.000457	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/26/23 08:50	10/26/23 16:03		1.015	0.0383	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 08:50	10/26/23 16:03		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 08:50	10/26/23 16:03		1.015	0.0000985	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	10/26/23 08:50	10/26/23 16:03		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 08:50	10/26/23 16:03		1.015	0.0180	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 08:50	10/26/23 16:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 08:50	10/30/23 13:22		5.075	2.08	mg/L	0.000761	0.005075	RA
* Potassium, Dissolved	10/26/23 08:50	10/26/23 16:03		1.015	9.96	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 08:50	10/26/23 16:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 08:50	10/26/23 16:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:43		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 09:01	11/15/23 09:01		1	0.144	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:47	10/26/23 14:47		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/7/23 10:15	11/7/23 12:00		1	4.47	SU		2	
* Alkalinity	11/7/23 10:15	11/7/23 12:00		1	205	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 11:20	10/27/23 13:37		1	409	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/7/23 10:15	11/7/23 12:00		1	205	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/7/23 10:15	11/7/23 12:00		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-15

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 16:05  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19602

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 16:28	10/27/23 16:28		1	2.35	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 15:40	10/30/23 15:40		1	9.61	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 12:38	10/26/23 12:38		6	128	mg/L	3.6	12	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	10/24/23 16:03	10/24/23 16:03			541.30	uS/cm			FA
pH	10/24/23 16:03	10/24/23 16:03			6.29	SU			FA
Temperature	10/24/23 16:03	10/24/23 16:03			19.46	C			FA
Turbidity	10/24/23 16:03	10/24/23 16:03			0.1	NTU			FA
Sulfide	10/24/23 16:03	10/24/23 16:03			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 16:05  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-15

**Laboratory ID Number:** BD19602

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19602	Aluminum, Dissolved	mg/L	0.0000741	0.0198	0.100	0.0975	0.0997	0.0960	0.0850 to 0.115	97.5	70.0 to 130	2.23	20.0
BD19603	Aluminum, Total	mg/L	0.000790	0.0198	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD19602	Antimony, Dissolved	mg/L	0.000238	0.00100	0.100	0.0989	0.0987	0.0956	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BD19603	Antimony, Total	mg/L	0.000215	0.00100	0.100	0.0994	0.0978	0.0942	0.0850 to 0.115	99.4	70.0 to 130	1.62	20.0
BD19602	Arsenic, Dissolved	mg/L	-0.0000089	0.000200	0.100	0.0972	0.0984	0.0973	0.0850 to 0.115	96.7	70.0 to 130	1.23	20.0
BD19603	Arsenic, Total	mg/L	0.0000306	0.000200	0.100	0.0979	0.0968	0.0957	0.0850 to 0.115	97.9	70.0 to 130	1.13	20.0
BD19602	Barium, Dissolved	mg/L	-0.0000045	0.00100	0.100	0.138	0.139	0.102	0.0850 to 0.115	99.7	70.0 to 130	0.722	20.0
BD19603	Barium, Total	mg/L	-0.0000077	0.00100	0.100	0.103	0.102	0.0990	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD19602	Beryllium, Dissolved	mg/L	0.0000150	0.000880	0.100	0.108	0.106	0.0983	0.0850 to 0.115	108	70.0 to 130	1.87	20.0
BD19603	Beryllium, Total	mg/L	0.0000161	0.000880	0.100	0.0931	0.0944	0.0965	0.0850 to 0.115	93.1	70.0 to 130	1.39	20.0
BD19602	Boron, Dissolved	mg/L	-0.000169	0.0650	1.00	1.82	1.82	0.932	0.850 to 1.15	93.8	70.0 to 130	0.00	20.0
BD19603	Boron, Total	mg/L	0.000071	0.0650	1.00	1.00	0.919	0.939	0.850 to 1.15	100	70.0 to 130	8.44	20.0
BD19602	Cadmium, Dissolved	mg/L	0.0000071	0.000147	0.100	0.101	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19603	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0945	0.0898	0.0916	0.0850 to 0.115	94.5	70.0 to 130	5.10	20.0
BD19602	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	80.7	84.5	5.00	4.25 to 5.75	-72.0	70.0 to 130	4.60	20.0
BD19603	Calcium, Total	mg/L	-0.0209	0.152	5.00	4.96	4.89	4.75	4.25 to 5.75	99.2	70.0 to 130	1.42	20.0
BD19764	Chloride	mg/L	0.0898	1.00	40.0	79.0	79.6	9.88	9.00 to 11.0	94.8	80.0 to 120	0.757	20.0
BD19602	Chromium, Dissolved	mg/L	-0.000147	0.000440	0.100	0.0972	0.0984	0.0998	0.0850 to 0.115	97.2	70.0 to 130	1.23	20.0
BD19603	Chromium, Total	mg/L	-0.000103	0.000440	0.100	0.100	0.0994	0.101	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BD19602	Cobalt, Dissolved	mg/L	-0.0000237	0.000147	0.100	0.119	0.120	0.104	0.0850 to 0.115	101	70.0 to 130	0.837	20.0
BD19603	Cobalt, Total	mg/L	-0.0000255	0.000147	0.100	0.104	0.104	0.105	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD19602	Iron, Dissolved	mg/L	0.00787	0.0176	0.2	1.38	1.37	0.193	0.170 to 0.230	95.0	70.0 to 130	0.727	20.0
BD19603	Iron, Total	mg/L	0.000435	0.0176	0.2	0.200	0.185	0.196	0.170 to 0.230	100	70.0 to 130	7.79	20.0
BD19602	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.105	0.105	0.105	0.0850 to 0.115	105	70.0 to 130	0.00	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 16:05  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-15

**Laboratory ID Number:** BD19602

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19603	Lead, Total	mg/L	0.0000137	0.000147	0.100	0.106	0.103	0.103	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD19602	Lithium, Dissolved	mg/L	0.000342	0.0154	0.200	0.728	0.726	0.192	0.170 to 0.230	97.5	70.0 to 130	0.275	20.0
BD19603	Lithium, Total	mg/L	0.000303	0.0154	0.200	0.208	0.204	0.197	0.170 to 0.230	104	70.0 to 130	1.94	20.0
BD19602	Magnesium, Dissolved	mg/L	-0.0263	0.0462	5.00	23.8	23.9	4.89	4.25 to 5.75	98.0	70.0 to 130	0.419	20.0
BD19603	Magnesium, Total	mg/L	-0.0195	0.0462	5.00	5.17	5.04	4.85	4.25 to 5.75	103	70.0 to 130	2.55	20.0
BD19602	Manganese, Dissolved	mg/L	0.0000795	0.00033	0.100	2.14	2.17	0.104	0.0850 to 0.115	60.0	70.0 to 130	1.39	20.0
BD19603	Manganese, Total	mg/L	0.0000387	0.00033	0.100	0.104	0.104	0.105	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD19760	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00354	0.00349	0.00387	0.00340 to 0.00460	88.5	70.0 to 130	1.42	20.0
BD19602	Molybdenum, Dissolved	mg/L	0.000089	0.0100	0.2	0.199	0.198	0.197	0.170 to 0.230	99.5	70.0 to 130	0.504	20.0
BD19603	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.206	0.204	0.202	0.170 to 0.230	103	70.0 to 130	0.976	20.0
BD19602	Potassium, Dissolved	mg/L	-0.00412	0.367	10.0	19.7	20.3	9.44	8.50 to 11.5	97.4	70.0 to 130	3.00	20.0
BD19603	Potassium, Total	mg/L	-0.00423	0.367	10.0	9.79	9.95	9.93	8.50 to 11.5	97.9	70.0 to 130	1.62	20.0
BD19602	Selenium, Dissolved	mg/L	0.0000387	0.00100	0.100	0.101	0.0999	0.102	0.0850 to 0.115	101	70.0 to 130	1.10	20.0
BD19603	Selenium, Total	mg/L	0.0000303	0.00100	0.100	0.0998	0.0992	0.0999	0.0850 to 0.115	99.8	70.0 to 130	0.603	20.0
BD19602	Silicon, Dissolved	mg/L	-0.000215	0.0440	1.00	6.23	6.23	0.968	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BD19603	Silicon, Total	mg/L	-0.000724	0.0440	1.00	1.03	0.925	0.967	0.850 to 1.15	103	70.0 to 130	10.7	20.0
BD19602	Sodium, Dissolved	mg/L	0.00238	0.0880	5.00	32.6	32.5	4.90	4.25 to 5.75	100	70.0 to 130	0.307	20.0
BD19603	Sodium, Total	mg/L	0.00401	0.0880	5.00	5.15	5.06	4.89	4.25 to 5.75	103	70.0 to 130	1.76	20.0
BD19603	Sulfate	mg/L	0.00491	2.0	20.0	19.3	19.2	19.8	18.0 to 22.0	96.5	80.0 to 120	0.519	20.0
BD19602	Thallium, Dissolved	mg/L	-0.0000329	0.000147	0.100	0.108	0.107	0.108	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19603	Thallium, Total	mg/L	-0.0000310	0.000147	0.100	0.109	0.104	0.108	0.0850 to 0.115	109	70.0 to 130	4.69	20.0
BD19765	Total Organic Carbon	mg/L	0.132	1.00	10.0	11.6	12.6	23.6		86.2	80.0 to 120	8.26	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 16:05  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond - MW-15

**Laboratory ID Number:** BD19602

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19763	Alkalinity	mg CaCO3/L					44.0	51.6	45.0 to 55.0			0.227	10.0
BD19764	Fluoride	mg/L	0.000000	0.0200	2.00	2.17	0.113	2.06	1.80 to 2.20	103	80.0 to 120	0.889	20.0
BD19765	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.06	0.107	1.94	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD19759	Solids, Dissolved	mg/L	0.0000	25.0			1020	52.0	40.0 to 60.0			0.985	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-3

**Location Code:** WMWGREAPFB  
**Collected:** 10/24/23 16:30  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19603

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 11:30	11/1/23 16:00		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/26/23 11:30	11/1/23 16:00		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	10/26/23 11:30	11/1/23 16:00		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/26/23 11:30	11/1/23 16:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/26/23 11:30	11/1/23 16:00		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	10/26/23 11:30	11/1/23 16:00		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 11:30	11/1/23 16:00		1	Not Detected	mg/L			
* Silicon, Total	10/26/23 11:30	11/1/23 16:00		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	10/26/23 11:30	11/1/23 16:00		1.015	Not Detected	mg/L	0.04060	0.406	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 11:30	10/26/23 18:34		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 11:30	10/26/23 18:34		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/26/23 11:30	10/26/23 18:34		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	10/26/23 11:30	10/26/23 18:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	10/26/23 11:30	10/26/23 18:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 11:30	10/26/23 18:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/26/23 11:30	10/26/23 18:34		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/26/23 11:30	10/26/23 18:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/26/23 11:30	10/26/23 18:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/26/23 11:30	10/26/23 18:34		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	10/26/23 11:30	10/26/23 18:34		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/26/23 11:30	10/26/23 18:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 11:30	10/26/23 18:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:45		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 09:25	11/15/23 09:25		1	Not Detected	mg/L	0.02	0.04	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:49	10/26/23 14:49		1	Not Detected	mg/L as N	0.20	0.3	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-3

**Location Code:** WMWGREAPFB  
**Collected:** 10/24/23 16:30  
**Customer ID:**  
**Submittal Date:** 10/25/23 10:06

**Laboratory ID Number:** BD19603

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 11:20	10/27/23 13:37		1	Not Detected	mg/L		25	U
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 16:44	10/27/23 16:44		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500CI E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 15:41	10/30/23 15:41		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 12:23	10/26/23 12:23		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**



# Batch QC Summary

**Customer Account:** WMWGREAPFB  
**Sample Date:** 10/24/23 16:30  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond Field Blank-3

**Laboratory ID Number:** BD19603

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19603	Aluminum, Total	mg/L	0.000790	0.0198	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD19603	Antimony, Total	mg/L	0.000215	0.00100	0.100	0.0994	0.0978	0.0942	0.0850 to 0.115	99.4	70.0 to 130	1.62	20.0
BD19603	Arsenic, Total	mg/L	0.0000306	0.000200	0.100	0.0979	0.0968	0.0957	0.0850 to 0.115	97.9	70.0 to 130	1.13	20.0
BD19603	Barium, Total	mg/L	-0.0000077	0.00100	0.100	0.103	0.102	0.0990	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BD19603	Beryllium, Total	mg/L	0.0000161	0.000880	0.100	0.0931	0.0944	0.0965	0.0850 to 0.115	93.1	70.0 to 130	1.39	20.0
BD19603	Boron, Total	mg/L	0.000071	0.0650	1.00	1.00	0.919	0.939	0.850 to 1.15	100	70.0 to 130	8.44	20.0
BD19603	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0945	0.0898	0.0916	0.0850 to 0.115	94.5	70.0 to 130	5.10	20.0
BD19603	Calcium, Total	mg/L	-0.0209	0.152	5.00	4.96	4.89	4.75	4.25 to 5.75	99.2	70.0 to 130	1.42	20.0
BD19764	Chloride	mg/L	0.0898	1.00	40.0	79.0	79.6	9.88	9.00 to 11.0	94.8	80.0 to 120	0.757	20.0
BD19603	Chromium, Total	mg/L	-0.000103	0.000440	0.100	0.100	0.0994	0.101	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BD19603	Cobalt, Total	mg/L	-0.0000255	0.000147	0.100	0.104	0.104	0.105	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD19603	Iron, Total	mg/L	0.000435	0.0176	0.2	0.200	0.185	0.196	0.170 to 0.230	100	70.0 to 130	7.79	20.0
BD19603	Lead, Total	mg/L	0.0000137	0.000147	0.100	0.106	0.103	0.103	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BD19603	Lithium, Total	mg/L	0.000303	0.0154	0.200	0.208	0.204	0.197	0.170 to 0.230	104	70.0 to 130	1.94	20.0
BD19603	Magnesium, Total	mg/L	-0.0195	0.0462	5.00	5.17	5.04	4.85	4.25 to 5.75	103	70.0 to 130	2.55	20.0
BD19603	Manganese, Total	mg/L	0.0000387	0.00033	0.100	0.104	0.104	0.105	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BD19760	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00354	0.00349	0.00387	0.00340 to 0.00460	88.5	70.0 to 130	1.42	20.0
BD19603	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.206	0.204	0.202	0.170 to 0.230	103	70.0 to 130	0.976	20.0
BD19603	Potassium, Total	mg/L	-0.00423	0.367	10.0	9.79	9.95	9.93	8.50 to 11.5	97.9	70.0 to 130	1.62	20.0
BD19603	Selenium, Total	mg/L	0.0000303	0.00100	0.100	0.0998	0.0992	0.0999	0.0850 to 0.115	99.8	70.0 to 130	0.603	20.0
BD19603	Silicon, Total	mg/L	-0.000724	0.0440	1.00	1.03	0.925	0.967	0.850 to 1.15	103	70.0 to 130	10.7	20.0
BD19603	Sodium, Total	mg/L	0.00401	0.0880	5.00	5.15	5.06	4.89	4.25 to 5.75	103	70.0 to 130	1.76	20.0
BD19603	Sulfate	mg/L	0.00491	2.0	20.0	19.3	19.2	19.8	18.0 to 22.0	96.5	80.0 to 120	0.519	20.0
BD19603	Thallium, Total	mg/L	-0.0000310	0.000147	0.100	0.109	0.104	0.108	0.0850 to 0.115	109	70.0 to 130	4.69	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB  
**Sample Date:** 10/24/23 16:30  
**Customer ID:**  
**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond Field Blank-3

**Laboratory ID Number:** BD19603

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BD19765	Total Organic Carbon	mg/L	0.132	1.00	10.0	11.6	12.6	23.6		86.2	80.0 to 120	8.26	20.0

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**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 10/24/23 16:30

**Customer ID:**

**Delivery Date:** 10/25/23 10:06

**Description:** Greene County Ash Pond Field Blank-3

**Laboratory ID Number:** BD19603

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19764	Fluoride	mg/L	0.000000	0.0200	2.00	2.17	0.113	2.06	1.80 to 2.20	103	80.0 to 120	0.889	20.0
BD19765	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.06	0.107	1.94	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD19759	Solids, Dissolved	mg/L	0.0000	25.0			1020	52.0	40.0 to 60.0			0.985	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-6

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 12:35  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19758

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/30/23 13:08	11/2/23 16:13		1.015	0.930	mg/L	0.030000	0.1015	
* Calcium, Total	10/30/23 13:08	11/14/23 13:15		10.15	147	mg/L	0.70035	4.06	
* Iron, Total	10/30/23 13:08	11/2/23 16:13		1.015	0.398	mg/L	0.008120	0.0406	
* Lithium, Total	10/30/23 13:08	11/2/23 16:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/30/23 13:08	11/2/23 16:13		1.015	21.3	mg/L	0.021315	0.406	
* Molybdenum, Total	10/30/23 13:08	11/2/23 16:13		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 16:13		1	19.9	mg/L			
* Silicon, Total	10/30/23 13:08	11/2/23 16:13		1.015	9.30	mg/L	0.02030	0.25375	
* Sodium, Total	10/30/23 13:08	11/14/23 13:15		10.15	161	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/30/23 12:08	11/2/23 17:44		1.015	1.01	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/30/23 12:08	11/14/23 12:28		10.15	142	mg/L	0.70035	4.06	
* Iron, Dissolved	10/30/23 12:08	11/2/23 17:44		1.015	0.345	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/30/23 12:08	11/2/23 17:44		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	10/30/23 12:08	11/2/23 17:44		1.015	21.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/30/23 12:08	11/2/23 17:44		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/30/23 12:08	11/2/23 17:44		1	21.8	mg/L			
* Silicon, Dissolved	10/30/23 12:08	11/2/23 17:44		1.015	10.2	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/30/23 12:08	11/14/23 12:28		10.15	157	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/30/23 13:08	10/30/23 18:15		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/30/23 13:08	10/30/23 18:15		1.015	0.0142	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/30/23 13:08	10/30/23 18:15		1.015	0.000206	mg/L	0.000112	0.000203	
* Barium, Total	10/30/23 13:08	10/30/23 18:15		1.015	0.0633	mg/L	0.000508	0.001015	
* Beryllium, Total	10/30/23 13:08	10/30/23 18:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/30/23 13:08	10/30/23 18:15		1.015	0.0000764	mg/L	0.000068	0.000203	J
* Chromium, Total	10/30/23 13:08	10/30/23 18:15		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/30/23 13:08	10/30/23 18:15		1.015	0.00284	mg/L	0.000068	0.000203	
* Lead, Total	10/30/23 13:08	10/30/23 18:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/30/23 13:08	10/30/23 18:15		1.015	0.804	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-6

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 12:35  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19758

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/30/23 13:08	10/30/23 18:15		1.015	0.568	mg/L	0.169505	0.5075	
* Selenium, Total	10/30/23 13:08	10/30/23 18:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/30/23 13:08	10/30/23 18:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/30/23 12:08	10/30/23 16:24		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/30/23 12:08	10/30/23 16:24		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/30/23 12:08	10/30/23 16:24		1.015	0.000186	mg/L	0.000112	0.000203	J
* Barium, Dissolved	10/30/23 12:08	10/30/23 16:24		1.015	0.0624	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/30/23 12:08	10/30/23 16:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/30/23 12:08	10/30/23 16:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/30/23 12:08	10/30/23 16:24		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/30/23 12:08	10/30/23 16:24		1.015	0.00254	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/30/23 12:08	10/30/23 16:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/30/23 12:08	10/30/23 16:24		1.015	0.762	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/30/23 12:08	10/30/23 16:24		1.015	0.718	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/30/23 12:08	10/30/23 16:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/30/23 12:08	10/30/23 16:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:47		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 09:48	11/15/23 09:48		1	0.143	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:51	10/26/23 14:51		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 09:35		1	4.52	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 09:35		1	405	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 13:17	10/27/23 13:37		1	790	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 09:35		1	404	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 09:35		1	Not Detected	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-6

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 12:35  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19758

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 17:01	10/27/23 17:01		1	2.83	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 15:53	10/30/23 15:53		4	40.5	mg/L	2.00	4	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 08:44	11/7/23 08:44		16	203	mg/L	9.6	32	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	10/25/23 12:32	10/25/23 12:32			1036.82	uS/cm			FA
pH	10/25/23 12:32	10/25/23 12:32			6.41	SU			FA
Temperature	10/25/23 12:32	10/25/23 12:32			21.47	C			FA
Turbidity	10/25/23 12:32	10/25/23 12:32			3.14	NTU			FA
Sulfide	10/25/23 12:32	10/25/23 12:32			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 12:35  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-6

**Laboratory ID Number:** BD19758

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19767	Aluminum, Dissolved	mg/L	-0.000178	0.0198	0.100	0.0950	0.0946	0.0939	0.0850 to 0.115	95.0	70.0 to 130	0.422	20.0
BD19767	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.0978	0.0970	0.0951	0.0850 to 0.115	97.8	70.0 to 130	0.821	20.0
BD19767	Antimony, Dissolved	mg/L	0.000272	0.00100	0.100	0.0982	0.0981	0.0931	0.0850 to 0.115	98.2	70.0 to 130	0.102	20.0
BD19767	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.102	0.100	0.0978	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD19767	Arsenic, Dissolved	mg/L	0.0000242	0.000200	0.100	0.0984	0.0998	0.0980	0.0850 to 0.115	98.4	70.0 to 130	1.41	20.0
BD19767	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0993	0.0973	0.0991	0.0850 to 0.115	99.3	70.0 to 130	2.03	20.0
BD19767	Barium, Dissolved	mg/L	0.0000446	0.00100	0.100	0.124	0.125	0.0980	0.0850 to 0.115	101	70.0 to 130	0.803	20.0
BD19767	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.131	0.130	0.0989	0.0850 to 0.115	106	70.0 to 130	0.766	20.0
BD19767	Beryllium, Dissolved	mg/L	0.0000017	0.000880	0.100	0.107	0.113	0.0985	0.0850 to 0.115	107	70.0 to 130	5.45	20.0
BD19767	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.0990	0.101	0.0960	0.0850 to 0.115	99.0	70.0 to 130	2.00	20.0
BD19767	Boron, Dissolved	mg/L	-0.000118	0.0650	1.00	1.01	1.02	0.951	0.850 to 1.15	94.4	70.0 to 130	0.985	20.0
BD19767	Boron, Total	mg/L	0.000015	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	95.3	70.0 to 130	0.976	20.0
BD19767	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0978	0.0952	0.0983	0.0850 to 0.115	97.7	70.0 to 130	2.69	20.0
BD19767	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0957	0.0976	0.0991	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0
BD19767	Calcium, Dissolved	mg/L	-0.0253	0.152	5.00	14.6	14.2	4.81	4.25 to 5.75	101	70.0 to 130	2.78	20.0
BD19767	Calcium, Total	mg/L	-0.0233	0.152	5.00	14.5	14.8	4.91	4.25 to 5.75	96.4	70.0 to 130	2.05	20.0
BD19764	Chloride	mg/L	0.0898	1.00	40.0	79.0	79.6	9.88	9.00 to 11.0	94.8	80.0 to 120	0.757	20.0
BD19767	Chromium, Dissolved	mg/L	-0.0000928	0.000440	0.100	0.0992	0.101	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.80	20.0
BD19767	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0987	0.0990	0.0980	0.0850 to 0.115	98.7	70.0 to 130	0.303	20.0
BD19767	Cobalt, Dissolved	mg/L	-0.0000269	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19767	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0991	0.101	0.0996	0.0850 to 0.115	99.0	70.0 to 130	1.90	20.0
BD19767	Iron, Dissolved	mg/L	-0.00107	0.0176	0.2	0.201	0.195	0.194	0.170 to 0.230	100	70.0 to 130	3.03	20.0
BD19767	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.199	0.202	0.173	0.170 to 0.230	99.5	70.0 to 130	1.50	20.0
BD19767	Lead, Dissolved	mg/L	-0.0000024	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	107	70.0 to 130	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 12:35  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-6

**Laboratory ID Number:** BD19758

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19767	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.116	0.108	0.108	0.0850 to 0.115	116	70.0 to 130	7.14	20.0
BD19767	Lithium, Dissolved	mg/L	0.000276	0.0154	0.200	0.236	0.235	0.195	0.170 to 0.230	96.8	70.0 to 130	0.425	20.0
BD19767	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.239	0.242	0.196	0.170 to 0.230	97.8	70.0 to 130	1.25	20.0
BD19767	Magnesium, Dissolved	mg/L	-0.00166	0.0462	5.00	7.16	6.97	4.88	4.25 to 5.75	96.6	70.0 to 130	2.69	20.0
BD19767	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	7.25	7.32	4.82	4.25 to 5.75	97.0	70.0 to 130	0.961	20.0
BD19767	Manganese, Dissolved	mg/L	0.0000794	0.00033	0.100	0.184	0.185	0.0976	0.0850 to 0.115	95.0	70.0 to 130	0.542	20.0
BD19767	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.182	0.186	0.0958	0.0850 to 0.115	92.8	70.0 to 130	2.17	20.0
BD19760	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00354	0.00349	0.00387	0.00340 to 0.00460	88.5	70.0 to 130	1.42	20.0
BD19767	Molybdenum, Dissolved	mg/L	0.000556	0.0100	0.2	0.196	0.196	0.198	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD19767	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.197	0.200	0.197	0.170 to 0.230	98.5	70.0 to 130	1.51	20.0
BD19767	Potassium, Dissolved	mg/L	0.163	0.367	10.0	12.1	11.9	10.3	8.50 to 11.5	98.4	70.0 to 130	1.67	20.0
BD19767	Potassium, Total	mg/L	-0.0126	0.367	10.0	11.9	12.0	9.77	8.50 to 11.5	97.7	70.0 to 130	0.837	20.0
BD19767	Selenium, Dissolved	mg/L	0.0000076	0.00100	0.100	0.0989	0.0991	0.103	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BD19767	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0986	0.0971	0.0977	0.0850 to 0.115	98.6	70.0 to 130	1.53	20.0
BD19767	Silicon, Dissolved	mg/L	0.000968	0.0440	1.00	4.52	4.53	0.989	0.850 to 1.15	103	70.0 to 130	0.221	20.0
BD19767	Silicon, Total	mg/L	-0.000714	0.0440	1.00	4.54	4.58	1.06	0.850 to 1.15	101	70.0 to 130	0.877	20.0
BD19767	Sodium, Dissolved	mg/L	0.00339	0.0880	5.00	9.11	8.99	4.88	4.25 to 5.75	97.0	70.0 to 130	1.33	20.0
BD19767	Sodium, Total	mg/L	0.00941	0.0880	5.00	9.19	9.30	4.96	4.25 to 5.75	96.2	70.0 to 130	1.19	20.0
BD19766	Sulfate	mg/L	-0.128	2.0	200	318	321	20.4	18.0 to 22.0	96.0	80.0 to 120	0.939	20.0
BD19767	Thallium, Dissolved	mg/L	-0.0000198	0.000147	0.100	0.103	0.101	0.106	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD19767	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.113	0.105	0.106	0.0850 to 0.115	113	70.0 to 130	7.34	20.0
BD19765	Total Organic Carbon	mg/L	0.132	1.00	10.0	11.6	12.6	23.6		86.2	80.0 to 120	8.26	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 12:35  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-6

**Laboratory ID Number:** BD19758

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD19764	Fluoride	mg/L	0.000000	0.0200	2.00	2.17	0.113	2.06	1.80 to 2.20	103	80.0 to 120	0.889	20.0
BD19765	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.06	0.107	1.94	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD19759	Solids, Dissolved	mg/L	0.0000	25.0			1020	52.0	40.0 to 60.0			0.985	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-7

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 14:22  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19759

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/30/23 13:08	11/2/23 16:16		1.015	0.0465	mg/L	0.030000	0.1015	J
* Calcium, Total	10/30/23 13:08	11/14/23 13:18		10.15	170	mg/L	0.70035	4.06	
* Iron, Total	10/30/23 13:08	11/2/23 16:16		1.015	0.629	mg/L	0.008120	0.0406	
* Lithium, Total	10/30/23 13:08	11/2/23 16:16		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/30/23 13:08	11/2/23 16:16		1.015	13.0	mg/L	0.021315	0.406	
* Molybdenum, Total	10/30/23 13:08	11/2/23 16:16		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 16:16		1	19.2	mg/L			
* Silicon, Total	10/30/23 13:08	11/2/23 16:16		1.015	8.97	mg/L	0.02030	0.25375	
* Sodium, Total	10/30/23 13:08	11/14/23 13:18		10.15	225	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/30/23 12:08	11/2/23 17:47		1.015	0.0474	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	10/30/23 12:08	11/14/23 12:31		10.15	168	mg/L	0.70035	4.06	
* Iron, Dissolved	10/30/23 12:08	11/2/23 17:47		1.015	0.219	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/30/23 12:08	11/2/23 17:47		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	10/30/23 12:08	11/2/23 17:47		1.015	12.8	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/30/23 12:08	11/2/23 17:47		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/30/23 12:08	11/2/23 17:47		1	20.3	mg/L			
* Silicon, Dissolved	10/30/23 12:08	11/2/23 17:47		1.015	9.47	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/30/23 12:08	11/14/23 12:31		10.15	223	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/30/23 13:08	10/30/23 18:19		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/30/23 13:08	10/30/23 18:19		1.015	0.116	mg/L	0.009135	0.05075	
* Arsenic, Total	10/30/23 13:08	10/30/23 18:19		1.015	0.000362	mg/L	0.000112	0.000203	
* Barium, Total	10/30/23 13:08	10/30/23 18:19		1.015	0.0645	mg/L	0.000508	0.001015	
* Beryllium, Total	10/30/23 13:08	10/30/23 18:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/30/23 13:08	10/30/23 18:19		1.015	0.000292	mg/L	0.000068	0.000203	
* Chromium, Total	10/30/23 13:08	10/30/23 18:19		1.015	0.000431	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/30/23 13:08	10/30/23 18:19		1.015	0.00215	mg/L	0.000068	0.000203	
* Lead, Total	10/30/23 13:08	10/30/23 18:19		1.015	0.000360	mg/L	0.000068	0.000203	
* Manganese, Total	10/30/23 13:08	10/30/23 18:19		1.015	0.915	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-7

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 14:22  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19759

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/30/23 13:08	10/30/23 18:19		1.015	1.53	mg/L	0.169505	0.5075	
* Selenium, Total	10/30/23 13:08	10/30/23 18:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/30/23 13:08	10/30/23 18:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/30/23 12:08	10/30/23 16:28		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/30/23 12:08	10/30/23 16:28		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/30/23 12:08	10/30/23 16:28		1.015	0.000182	mg/L	0.000112	0.000203	J
* Barium, Dissolved	10/30/23 12:08	10/30/23 16:28		1.015	0.0622	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/30/23 12:08	10/30/23 16:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/30/23 12:08	10/30/23 16:28		1.015	0.000152	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	10/30/23 12:08	10/30/23 16:28		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/30/23 12:08	10/30/23 16:28		1.015	0.00187	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/30/23 12:08	10/30/23 16:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/30/23 12:08	10/30/23 16:28		1.015	0.945	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/30/23 12:08	10/30/23 16:28		1.015	1.65	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/30/23 12:08	10/30/23 16:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/30/23 12:08	10/30/23 16:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:50		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 10:58	11/15/23 10:58		1	0.0713	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:53	10/26/23 14:53		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 12:43		1	4.52	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 12:43		1	332	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 13:17	10/27/23 13:37		1	1010	mg/L		75.8	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 12:43		1	331	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 12:43		1	0.529	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-7

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 14:22  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19759

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 17:19	10/27/23 17:19		1	2.55	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 15:54	10/30/23 15:54		20	170	mg/L	10.00	20	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 08:45	11/7/23 08:45		16	257	mg/L	9.6	32	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	10/25/23 14:19	10/25/23 14:19			1297.09	uS/cm			FA
pH	10/25/23 14:19	10/25/23 14:19			6.57	SU			FA
Temperature	10/25/23 14:19	10/25/23 14:19			20.45	C			FA
Turbidity	10/25/23 14:19	10/25/23 14:19			9.27	NTU			FA
Sulfide	10/25/23 14:19	10/25/23 14:19			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 14:22  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-7

**Laboratory ID Number:** BD19759

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19767	Aluminum, Dissolved	mg/L	-0.000178	0.0198	0.100	0.0950	0.0946	0.0939	0.0850 to 0.115	95.0	70.0 to 130	0.422	20.0
BD19767	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.0978	0.0970	0.0951	0.0850 to 0.115	97.8	70.0 to 130	0.821	20.0
BD19767	Antimony, Dissolved	mg/L	0.000272	0.00100	0.100	0.0982	0.0981	0.0931	0.0850 to 0.115	98.2	70.0 to 130	0.102	20.0
BD19767	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.102	0.100	0.0978	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD19767	Arsenic, Dissolved	mg/L	0.0000242	0.000200	0.100	0.0984	0.0998	0.0980	0.0850 to 0.115	98.4	70.0 to 130	1.41	20.0
BD19767	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0993	0.0973	0.0991	0.0850 to 0.115	99.3	70.0 to 130	2.03	20.0
BD19767	Barium, Dissolved	mg/L	0.0000446	0.00100	0.100	0.124	0.125	0.0980	0.0850 to 0.115	101	70.0 to 130	0.803	20.0
BD19767	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.131	0.130	0.0989	0.0850 to 0.115	106	70.0 to 130	0.766	20.0
BD19767	Beryllium, Dissolved	mg/L	0.0000017	0.000880	0.100	0.107	0.113	0.0985	0.0850 to 0.115	107	70.0 to 130	5.45	20.0
BD19767	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.0990	0.101	0.0960	0.0850 to 0.115	99.0	70.0 to 130	2.00	20.0
BD19767	Boron, Dissolved	mg/L	-0.000118	0.0650	1.00	1.01	1.02	0.951	0.850 to 1.15	94.4	70.0 to 130	0.985	20.0
BD19767	Boron, Total	mg/L	0.000015	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	95.3	70.0 to 130	0.976	20.0
BD19767	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0978	0.0952	0.0983	0.0850 to 0.115	97.7	70.0 to 130	2.69	20.0
BD19767	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0957	0.0976	0.0991	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0
BD19767	Calcium, Dissolved	mg/L	-0.0253	0.152	5.00	14.6	14.2	4.81	4.25 to 5.75	101	70.0 to 130	2.78	20.0
BD19767	Calcium, Total	mg/L	-0.0233	0.152	5.00	14.5	14.8	4.91	4.25 to 5.75	96.4	70.0 to 130	2.05	20.0
BD19764	Chloride	mg/L	0.0898	1.00	40.0	79.0	79.6	9.88	9.00 to 11.0	94.8	80.0 to 120	0.757	20.0
BD19767	Chromium, Dissolved	mg/L	-0.0000928	0.000440	0.100	0.0992	0.101	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.80	20.0
BD19767	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0987	0.0990	0.0980	0.0850 to 0.115	98.7	70.0 to 130	0.303	20.0
BD19767	Cobalt, Dissolved	mg/L	-0.0000269	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19767	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0991	0.101	0.0996	0.0850 to 0.115	99.0	70.0 to 130	1.90	20.0
BD19767	Iron, Dissolved	mg/L	-0.00107	0.0176	0.2	0.201	0.195	0.194	0.170 to 0.230	100	70.0 to 130	3.03	20.0
BD19767	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.199	0.202	0.173	0.170 to 0.230	99.5	70.0 to 130	1.50	20.0
BD19767	Lead, Dissolved	mg/L	-0.0000024	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	107	70.0 to 130	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 14:22  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-7

**Laboratory ID Number:** BD19759

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19767	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.116	0.108	0.108	0.0850 to 0.115	116	70.0 to 130	7.14	20.0
BD19767	Lithium, Dissolved	mg/L	0.000276	0.0154	0.200	0.236	0.235	0.195	0.170 to 0.230	96.8	70.0 to 130	0.425	20.0
BD19767	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.239	0.242	0.196	0.170 to 0.230	97.8	70.0 to 130	1.25	20.0
BD19767	Magnesium, Dissolved	mg/L	-0.00166	0.0462	5.00	7.16	6.97	4.88	4.25 to 5.75	96.6	70.0 to 130	2.69	20.0
BD19767	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	7.25	7.32	4.82	4.25 to 5.75	97.0	70.0 to 130	0.961	20.0
BD19767	Manganese, Dissolved	mg/L	0.0000794	0.00033	0.100	0.184	0.185	0.0976	0.0850 to 0.115	95.0	70.0 to 130	0.542	20.0
BD19767	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.182	0.186	0.0958	0.0850 to 0.115	92.8	70.0 to 130	2.17	20.0
BD19760	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00354	0.00349	0.00387	0.00340 to 0.00460	88.5	70.0 to 130	1.42	20.0
BD19767	Molybdenum, Dissolved	mg/L	0.000556	0.0100	0.2	0.196	0.196	0.198	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD19767	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.197	0.200	0.197	0.170 to 0.230	98.5	70.0 to 130	1.51	20.0
BD19767	Potassium, Dissolved	mg/L	0.163	0.367	10.0	12.1	11.9	10.3	8.50 to 11.5	98.4	70.0 to 130	1.67	20.0
BD19767	Potassium, Total	mg/L	-0.0126	0.367	10.0	11.9	12.0	9.77	8.50 to 11.5	97.7	70.0 to 130	0.837	20.0
BD19767	Selenium, Dissolved	mg/L	0.0000076	0.00100	0.100	0.0989	0.0991	0.103	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BD19767	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0986	0.0971	0.0977	0.0850 to 0.115	98.6	70.0 to 130	1.53	20.0
BD19767	Silicon, Dissolved	mg/L	0.000968	0.0440	1.00	4.52	4.53	0.989	0.850 to 1.15	103	70.0 to 130	0.221	20.0
BD19767	Silicon, Total	mg/L	-0.000714	0.0440	1.00	4.54	4.58	1.06	0.850 to 1.15	101	70.0 to 130	0.877	20.0
BD19767	Sodium, Dissolved	mg/L	0.00339	0.0880	5.00	9.11	8.99	4.88	4.25 to 5.75	97.0	70.0 to 130	1.33	20.0
BD19767	Sodium, Total	mg/L	0.00941	0.0880	5.00	9.19	9.30	4.96	4.25 to 5.75	96.2	70.0 to 130	1.19	20.0
BD19766	Sulfate	mg/L	-0.128	2.0	200	318	321	20.4	18.0 to 22.0	96.0	80.0 to 120	0.939	20.0
BD19767	Thallium, Dissolved	mg/L	-0.0000198	0.000147	0.100	0.103	0.101	0.106	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD19767	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.113	0.105	0.106	0.0850 to 0.115	113	70.0 to 130	7.34	20.0
BD19765	Total Organic Carbon	mg/L	0.132	1.00	10.0	11.6	12.6	23.6		86.2	80.0 to 120	8.26	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 14:22  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-7

**Laboratory ID Number:** BD19759

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD19764	Fluoride	mg/L	0.000000	0.0200	2.00	2.17	0.113	2.06	1.80 to 2.20	103	80.0 to 120	0.889	20.0
BD19765	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.06	0.107	1.94	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD19759	Solids, Dissolved	mg/L	0.0000	25.0			1020	52.0	40.0 to 60.0			0.985	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-8

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 15:00  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19760

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	10/30/23 13:08	11/2/23 16:19		1.015	0.709	mg/L	0.030000	0.1015		
* Calcium, Total	10/30/23 13:08	11/14/23 13:22		10.15	92.7	mg/L	0.70035	4.06		
* Iron, Total	10/30/23 13:08	11/2/23 16:19		1.015	0.0302	mg/L	0.008120	0.0406	J	
* Lithium, Total	10/30/23 13:08	11/2/23 16:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/30/23 13:08	11/2/23 16:19		1.015	16.8	mg/L	0.021315	0.406		
* Molybdenum, Total	10/30/23 13:08	11/2/23 16:19		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 16:19		1	13.7	mg/L				
* Silicon, Total	10/30/23 13:08	11/2/23 16:19		1.015	6.38	mg/L	0.02030	0.25375		
* Sodium, Total	10/30/23 13:08	11/14/23 13:22		10.15	190	mg/L	0.4060	4.06		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	10/30/23 12:08	11/2/23 17:51		1.015	0.738	mg/L	0.030000	0.1015		
* Calcium, Dissolved	10/30/23 12:08	11/14/23 12:34		10.15	95.8	mg/L	0.70035	4.06		
* Iron, Dissolved	10/30/23 12:08	11/2/23 17:51		1.015	0.0385	mg/L	0.008120	0.0406	J	
* Lithium, Dissolved	10/30/23 12:08	11/2/23 17:51		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	10/30/23 12:08	11/2/23 17:51		1.015	16.7	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	10/30/23 12:08	11/2/23 17:51		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	10/30/23 12:08	11/2/23 17:51		1	14.4	mg/L				
* Silicon, Dissolved	10/30/23 12:08	11/2/23 17:51		1.015	6.72	mg/L	0.02030	0.25375		
* Sodium, Dissolved	10/30/23 12:08	11/14/23 12:34		10.15	194	mg/L	0.4060	4.06		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	10/30/23 13:08	10/30/23 18:23		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	10/30/23 13:08	10/30/23 18:23		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	10/30/23 13:08	10/30/23 18:23		1.015	0.000184	mg/L	0.000112	0.000203	J	
* Barium, Total	10/30/23 13:08	10/30/23 18:23		1.015	0.114	mg/L	0.000508	0.001015		
* Beryllium, Total	10/30/23 13:08	10/30/23 18:23		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/30/23 13:08	10/30/23 18:23		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/30/23 13:08	10/30/23 18:23		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	10/30/23 13:08	10/30/23 18:23		1.015	0.00679	mg/L	0.000068	0.000203		
* Lead, Total	10/30/23 13:08	10/30/23 18:23		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/30/23 13:08	10/30/23 18:23		1.015	1.27	mg/L	0.000152	0.001015		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-8

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 15:00  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19760

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/30/23 13:08	10/30/23 18:23		1.015	0.804	mg/L	0.169505	0.5075	
* Selenium, Total	10/30/23 13:08	10/30/23 18:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/30/23 13:08	10/30/23 18:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/30/23 12:08	10/30/23 16:32		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/30/23 12:08	10/30/23 16:32		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/30/23 12:08	10/30/23 16:32		1.015	0.000186	mg/L	0.000112	0.000203	J
* Barium, Dissolved	10/30/23 12:08	10/30/23 16:32		1.015	0.110	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/30/23 12:08	10/30/23 16:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/30/23 12:08	10/30/23 16:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/30/23 12:08	10/30/23 16:32		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/30/23 12:08	10/30/23 16:32		1.015	0.00630	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/30/23 12:08	10/30/23 16:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/30/23 12:08	10/31/23 11:57		5.075	1.26	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/30/23 12:08	10/30/23 16:32		1.015	0.958	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/30/23 12:08	10/30/23 16:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/30/23 12:08	10/30/23 16:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 15:52		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 11:22	11/15/23 11:22		1	0.105	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:55	10/26/23 14:55		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 12:43		1	4.50	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 12:43		1	454	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 13:17	10/27/23 13:37		1	702	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 12:43		1	454	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 12:43		1	Not Detected	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-8

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 15:00  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19760

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 17:36	10/27/23 17:36		1	3.40	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 15:55	10/30/23 15:55		8	69.9	mg/L	4.00	8	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 08:47	11/7/23 08:47		4	91.7	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	10/25/23 14:59	10/25/23 14:59			984.02	uS/cm			FA
pH	10/25/23 14:59	10/25/23 14:59			6.47	SU			FA
Temperature	10/25/23 14:59	10/25/23 14:59			20.87	C			FA
Turbidity	10/25/23 14:59	10/25/23 14:59			2.03	NTU			FA
Sulfide	10/25/23 14:59	10/25/23 14:59			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 15:00  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-8

**Laboratory ID Number:** BD19760

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19767	Aluminum, Dissolved	mg/L	-0.000178	0.0198	0.100	0.0950	0.0946	0.0939	0.0850 to 0.115	95.0	70.0 to 130	0.422	20.0
BD19767	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.0978	0.0970	0.0951	0.0850 to 0.115	97.8	70.0 to 130	0.821	20.0
BD19767	Antimony, Dissolved	mg/L	0.000272	0.00100	0.100	0.0982	0.0981	0.0931	0.0850 to 0.115	98.2	70.0 to 130	0.102	20.0
BD19767	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.102	0.100	0.0978	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD19767	Arsenic, Dissolved	mg/L	0.0000242	0.000200	0.100	0.0984	0.0998	0.0980	0.0850 to 0.115	98.4	70.0 to 130	1.41	20.0
BD19767	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0993	0.0973	0.0991	0.0850 to 0.115	99.3	70.0 to 130	2.03	20.0
BD19767	Barium, Dissolved	mg/L	0.0000446	0.00100	0.100	0.124	0.125	0.0980	0.0850 to 0.115	101	70.0 to 130	0.803	20.0
BD19767	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.131	0.130	0.0989	0.0850 to 0.115	106	70.0 to 130	0.766	20.0
BD19767	Beryllium, Dissolved	mg/L	0.0000017	0.000880	0.100	0.107	0.113	0.0985	0.0850 to 0.115	107	70.0 to 130	5.45	20.0
BD19767	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.0990	0.101	0.0960	0.0850 to 0.115	99.0	70.0 to 130	2.00	20.0
BD19767	Boron, Dissolved	mg/L	-0.000118	0.0650	1.00	1.01	1.02	0.951	0.850 to 1.15	94.4	70.0 to 130	0.985	20.0
BD19767	Boron, Total	mg/L	0.000015	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	95.3	70.0 to 130	0.976	20.0
BD19767	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0978	0.0952	0.0983	0.0850 to 0.115	97.7	70.0 to 130	2.69	20.0
BD19767	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0957	0.0976	0.0991	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0
BD19767	Calcium, Dissolved	mg/L	-0.0253	0.152	5.00	14.6	14.2	4.81	4.25 to 5.75	101	70.0 to 130	2.78	20.0
BD19767	Calcium, Total	mg/L	-0.0233	0.152	5.00	14.5	14.8	4.91	4.25 to 5.75	96.4	70.0 to 130	2.05	20.0
BD19764	Chloride	mg/L	0.0898	1.00	40.0	79.0	79.6	9.88	9.00 to 11.0	94.8	80.0 to 120	0.757	20.0
BD19767	Chromium, Dissolved	mg/L	-0.0000928	0.000440	0.100	0.0992	0.101	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.80	20.0
BD19767	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0987	0.0990	0.0980	0.0850 to 0.115	98.7	70.0 to 130	0.303	20.0
BD19767	Cobalt, Dissolved	mg/L	-0.0000269	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19767	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0991	0.101	0.0996	0.0850 to 0.115	99.0	70.0 to 130	1.90	20.0
BD19767	Iron, Dissolved	mg/L	-0.00107	0.0176	0.2	0.201	0.195	0.194	0.170 to 0.230	100	70.0 to 130	3.03	20.0
BD19767	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.199	0.202	0.173	0.170 to 0.230	99.5	70.0 to 130	1.50	20.0
BD19767	Lead, Dissolved	mg/L	-0.0000024	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	107	70.0 to 130	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 15:00  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-8

**Laboratory ID Number:** BD19760

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19767	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.116	0.108	0.108	0.0850 to 0.115	116	70.0 to 130	7.14	20.0
BD19767	Lithium, Dissolved	mg/L	0.000276	0.0154	0.200	0.236	0.235	0.195	0.170 to 0.230	96.8	70.0 to 130	0.425	20.0
BD19767	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.239	0.242	0.196	0.170 to 0.230	97.8	70.0 to 130	1.25	20.0
BD19767	Magnesium, Dissolved	mg/L	-0.00166	0.0462	5.00	7.16	6.97	4.88	4.25 to 5.75	96.6	70.0 to 130	2.69	20.0
BD19767	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	7.25	7.32	4.82	4.25 to 5.75	97.0	70.0 to 130	0.961	20.0
BD19767	Manganese, Dissolved	mg/L	0.0000794	0.00033	0.100	0.184	0.185	0.0976	0.0850 to 0.115	95.0	70.0 to 130	0.542	20.0
BD19767	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.182	0.186	0.0958	0.0850 to 0.115	92.8	70.0 to 130	2.17	20.0
BD19760	Mercury, Total by CVAA	mg/L	0.000206	0.000500	0.004	0.00354	0.00349	0.00387	0.00340 to 0.00460	88.5	70.0 to 130	1.42	20.0
BD19767	Molybdenum, Dissolved	mg/L	0.000556	0.0100	0.2	0.196	0.196	0.198	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD19767	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.197	0.200	0.197	0.170 to 0.230	98.5	70.0 to 130	1.51	20.0
BD19767	Potassium, Dissolved	mg/L	0.163	0.367	10.0	12.1	11.9	10.3	8.50 to 11.5	98.4	70.0 to 130	1.67	20.0
BD19767	Potassium, Total	mg/L	-0.0126	0.367	10.0	11.9	12.0	9.77	8.50 to 11.5	97.7	70.0 to 130	0.837	20.0
BD19767	Selenium, Dissolved	mg/L	0.0000076	0.00100	0.100	0.0989	0.0991	0.103	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BD19767	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0986	0.0971	0.0977	0.0850 to 0.115	98.6	70.0 to 130	1.53	20.0
BD19767	Silicon, Dissolved	mg/L	0.000968	0.0440	1.00	4.52	4.53	0.989	0.850 to 1.15	103	70.0 to 130	0.221	20.0
BD19767	Silicon, Total	mg/L	-0.000714	0.0440	1.00	4.54	4.58	1.06	0.850 to 1.15	101	70.0 to 130	0.877	20.0
BD19767	Sodium, Dissolved	mg/L	0.00339	0.0880	5.00	9.11	8.99	4.88	4.25 to 5.75	97.0	70.0 to 130	1.33	20.0
BD19767	Sodium, Total	mg/L	0.00941	0.0880	5.00	9.19	9.30	4.96	4.25 to 5.75	96.2	70.0 to 130	1.19	20.0
BD19766	Sulfate	mg/L	-0.128	2.0	200	318	321	20.4	18.0 to 22.0	96.0	80.0 to 120	0.939	20.0
BD19767	Thallium, Dissolved	mg/L	-0.0000198	0.000147	0.100	0.103	0.101	0.106	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD19767	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.113	0.105	0.106	0.0850 to 0.115	113	70.0 to 130	7.34	20.0
BD19765	Total Organic Carbon	mg/L	0.132	1.00	10.0	11.6	12.6	23.6		86.2	80.0 to 120	8.26	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 15:00  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-8

**Laboratory ID Number:** BD19760

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD19764	Fluoride	mg/L	0.000000	0.0200	2.00	2.17	0.113	2.06	1.80 to 2.20	103	80.0 to 120	0.889	20.0
BD19765	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.06	0.107	1.94	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD19769	Solids, Dissolved	mg/L	0.0000	25.0			205	52.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-9

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 15:52  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19761

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/30/23 13:08	11/2/23 16:22		1.015	1.13	mg/L	0.030000	0.1015	
* Calcium, Total	10/30/23 13:08	11/14/23 13:25		10.15	82.0	mg/L	0.70035	4.06	
* Iron, Total	10/30/23 13:08	11/14/23 13:25		10.15	10.3	mg/L	0.08120	0.406	
* Lithium, Total	10/30/23 13:08	11/2/23 16:22		1.015	0.0121	mg/L	0.007105	0.01999956	J
* Magnesium, Total	10/30/23 13:08	11/2/23 16:22		1.015	18.6	mg/L	0.021315	0.406	
* Molybdenum, Total	10/30/23 13:08	11/2/23 16:22		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 16:22		1	9.91	mg/L			
* Silicon, Total	10/30/23 13:08	11/2/23 16:22		1.015	4.63	mg/L	0.02030	0.25375	
* Sodium, Total	10/30/23 13:08	11/14/23 13:25		10.15	96.9	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/30/23 12:08	11/2/23 17:54		1.015	1.15	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/30/23 12:08	11/14/23 12:37		10.15	95.1	mg/L	0.70035	4.06	
* Iron, Dissolved	10/30/23 12:08	11/14/23 12:37		10.15	11.2	mg/L	0.08120	0.406	
* Lithium, Dissolved	10/30/23 12:08	11/2/23 17:54		1.015	0.0120	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	10/30/23 12:08	11/2/23 17:54		1.015	18.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/30/23 12:08	11/2/23 17:54		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/30/23 12:08	11/2/23 17:54		1	10.1	mg/L			
* Silicon, Dissolved	10/30/23 12:08	11/2/23 17:54		1.015	4.72	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/30/23 12:08	11/14/23 12:37		10.15	111	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/30/23 13:08	10/30/23 18:26		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/30/23 13:08	10/30/23 18:26		1.015	0.0576	mg/L	0.009135	0.05075	
* Arsenic, Total	10/30/23 13:08	10/30/23 18:26		1.015	0.0116	mg/L	0.000112	0.000203	
* Barium, Total	10/30/23 13:08	10/30/23 18:26		1.015	0.126	mg/L	0.000508	0.001015	
* Beryllium, Total	10/30/23 13:08	10/30/23 18:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/30/23 13:08	10/30/23 18:26		1.015	0.000308	mg/L	0.000068	0.000203	
* Chromium, Total	10/30/23 13:08	10/30/23 18:26		1.015	0.000263	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/30/23 13:08	10/30/23 18:26		1.015	0.0238	mg/L	0.000068	0.000203	
* Lead, Total	10/30/23 13:08	10/30/23 18:26		1.015	0.000163	mg/L	0.000068	0.000203	J
* Manganese, Total	10/30/23 13:08	10/31/23 12:42		10.15	7.50	mg/L	0.001522	0.01015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-9

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 15:52  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19761

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/30/23 13:08	10/30/23 18:26		1.015	4.84	mg/L	0.169505	0.5075	
* Selenium, Total	10/30/23 13:08	10/30/23 18:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/30/23 13:08	10/30/23 18:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/30/23 12:08	10/30/23 16:35		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/30/23 12:08	10/30/23 16:35		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/30/23 12:08	10/30/23 16:35		1.015	0.0114	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/30/23 12:08	10/30/23 16:35		1.015	0.117	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/30/23 12:08	10/30/23 16:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/30/23 12:08	10/30/23 16:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/30/23 12:08	10/30/23 16:35		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/30/23 12:08	10/30/23 16:35		1.015	0.0241	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/30/23 12:08	10/30/23 16:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/30/23 12:08	10/31/23 12:01		10.15	7.52	mg/L	0.001522	0.01015	
* Potassium, Dissolved	10/30/23 12:08	10/30/23 16:35		1.015	5.02	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/30/23 12:08	10/30/23 16:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/30/23 12:08	10/30/23 16:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 16:09		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 11:45	11/15/23 11:45		1	0.104	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:57	10/26/23 14:57		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 12:43		1	4.51	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 12:43		1	291	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 13:17	10/27/23 13:37		1	525	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 12:43		1	291	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 12:43		1	Not Detected	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-9

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 15:52  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19761

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 17:51	10/27/23 17:51		1	3.59	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 15:56	10/30/23 15:56		8	62.3	mg/L	4.00	8	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 08:48	11/7/23 08:48		4	81.3	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	10/25/23 15:51	10/25/23 15:51			733.30	uS/cm			FA
pH	10/25/23 15:51	10/25/23 15:51			6.22	SU			FA
Temperature	10/25/23 15:51	10/25/23 15:51			20.24	C			FA
Turbidity	10/25/23 15:51	10/25/23 15:51			6.47	NTU			FA
Sulfide	10/25/23 15:51	10/25/23 15:51			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 15:52  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-9

**Laboratory ID Number:** BD19761

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19767	Aluminum, Dissolved	mg/L	-0.000178	0.0198	0.100	0.0950	0.0946	0.0939	0.0850 to 0.115	95.0	70.0 to 130	0.422	20.0
BD19767	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.0978	0.0970	0.0951	0.0850 to 0.115	97.8	70.0 to 130	0.821	20.0
BD19767	Antimony, Dissolved	mg/L	0.000272	0.00100	0.100	0.0982	0.0981	0.0931	0.0850 to 0.115	98.2	70.0 to 130	0.102	20.0
BD19767	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.102	0.100	0.0978	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD19767	Arsenic, Dissolved	mg/L	0.0000242	0.000200	0.100	0.0984	0.0998	0.0980	0.0850 to 0.115	98.4	70.0 to 130	1.41	20.0
BD19767	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0993	0.0973	0.0991	0.0850 to 0.115	99.3	70.0 to 130	2.03	20.0
BD19767	Barium, Dissolved	mg/L	0.0000446	0.00100	0.100	0.124	0.125	0.0980	0.0850 to 0.115	101	70.0 to 130	0.803	20.0
BD19767	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.131	0.130	0.0989	0.0850 to 0.115	106	70.0 to 130	0.766	20.0
BD19767	Beryllium, Dissolved	mg/L	0.0000017	0.000880	0.100	0.107	0.113	0.0985	0.0850 to 0.115	107	70.0 to 130	5.45	20.0
BD19767	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.0990	0.101	0.0960	0.0850 to 0.115	99.0	70.0 to 130	2.00	20.0
BD19767	Boron, Dissolved	mg/L	-0.000118	0.0650	1.00	1.01	1.02	0.951	0.850 to 1.15	94.4	70.0 to 130	0.985	20.0
BD19767	Boron, Total	mg/L	0.000015	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	95.3	70.0 to 130	0.976	20.0
BD19767	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0978	0.0952	0.0983	0.0850 to 0.115	97.7	70.0 to 130	2.69	20.0
BD19767	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0957	0.0976	0.0991	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0
BD19767	Calcium, Dissolved	mg/L	-0.0253	0.152	5.00	14.6	14.2	4.81	4.25 to 5.75	101	70.0 to 130	2.78	20.0
BD19767	Calcium, Total	mg/L	-0.0233	0.152	5.00	14.5	14.8	4.91	4.25 to 5.75	96.4	70.0 to 130	2.05	20.0
BD19764	Chloride	mg/L	0.0898	1.00	40.0	79.0	79.6	9.88	9.00 to 11.0	94.8	80.0 to 120	0.757	20.0
BD19767	Chromium, Dissolved	mg/L	-0.0000928	0.000440	0.100	0.0992	0.101	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.80	20.0
BD19767	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0987	0.0990	0.0980	0.0850 to 0.115	98.7	70.0 to 130	0.303	20.0
BD19767	Cobalt, Dissolved	mg/L	-0.0000269	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19767	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0991	0.101	0.0996	0.0850 to 0.115	99.0	70.0 to 130	1.90	20.0
BD19767	Iron, Dissolved	mg/L	-0.00107	0.0176	0.2	0.201	0.195	0.194	0.170 to 0.230	100	70.0 to 130	3.03	20.0
BD19767	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.199	0.202	0.173	0.170 to 0.230	99.5	70.0 to 130	1.50	20.0
BD19767	Lead, Dissolved	mg/L	-0.0000024	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	107	70.0 to 130	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 15:52  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-9

**Laboratory ID Number:** BD19761

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19767	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.116	0.108	0.108	0.0850 to 0.115	116	70.0 to 130	7.14	20.0
BD19767	Lithium, Dissolved	mg/L	0.000276	0.0154	0.200	0.236	0.235	0.195	0.170 to 0.230	96.8	70.0 to 130	0.425	20.0
BD19767	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.239	0.242	0.196	0.170 to 0.230	97.8	70.0 to 130	1.25	20.0
BD19767	Magnesium, Dissolved	mg/L	-0.00166	0.0462	5.00	7.16	6.97	4.88	4.25 to 5.75	96.6	70.0 to 130	2.69	20.0
BD19767	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	7.25	7.32	4.82	4.25 to 5.75	97.0	70.0 to 130	0.961	20.0
BD19767	Manganese, Dissolved	mg/L	0.0000794	0.00033	0.100	0.184	0.185	0.0976	0.0850 to 0.115	95.0	70.0 to 130	0.542	20.0
BD19767	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.182	0.186	0.0958	0.0850 to 0.115	92.8	70.0 to 130	2.17	20.0
BD19770	Mercury, Total by CVAA	mg/L	0.000178	0.000500	0.004	0.00381	0.00387	0.00380	0.00340 to 0.00460	95.2	70.0 to 130	1.56	20.0
BD19767	Molybdenum, Dissolved	mg/L	0.000556	0.0100	0.2	0.196	0.196	0.198	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD19767	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.197	0.200	0.197	0.170 to 0.230	98.5	70.0 to 130	1.51	20.0
BD19767	Potassium, Dissolved	mg/L	0.163	0.367	10.0	12.1	11.9	10.3	8.50 to 11.5	98.4	70.0 to 130	1.67	20.0
BD19767	Potassium, Total	mg/L	-0.0126	0.367	10.0	11.9	12.0	9.77	8.50 to 11.5	97.7	70.0 to 130	0.837	20.0
BD19767	Selenium, Dissolved	mg/L	0.0000076	0.00100	0.100	0.0989	0.0991	0.103	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BD19767	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0986	0.0971	0.0977	0.0850 to 0.115	98.6	70.0 to 130	1.53	20.0
BD19767	Silicon, Dissolved	mg/L	0.000968	0.0440	1.00	4.52	4.53	0.989	0.850 to 1.15	103	70.0 to 130	0.221	20.0
BD19767	Silicon, Total	mg/L	-0.000714	0.0440	1.00	4.54	4.58	1.06	0.850 to 1.15	101	70.0 to 130	0.877	20.0
BD19767	Sodium, Dissolved	mg/L	0.00339	0.0880	5.00	9.11	8.99	4.88	4.25 to 5.75	97.0	70.0 to 130	1.33	20.0
BD19767	Sodium, Total	mg/L	0.00941	0.0880	5.00	9.19	9.30	4.96	4.25 to 5.75	96.2	70.0 to 130	1.19	20.0
BD19766	Sulfate	mg/L	-0.128	2.0	200	318	321	20.4	18.0 to 22.0	96.0	80.0 to 120	0.939	20.0
BD19767	Thallium, Dissolved	mg/L	-0.0000198	0.000147	0.100	0.103	0.101	0.106	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD19767	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.113	0.105	0.106	0.0850 to 0.115	113	70.0 to 130	7.34	20.0
BD19765	Total Organic Carbon	mg/L	0.132	1.00	10.0	11.6	12.6	23.6		86.2	80.0 to 120	8.26	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 15:52  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-9

**Laboratory ID Number:** BD19761

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD19764	Fluoride	mg/L	0.000000	0.0200	2.00	2.17	0.113	2.06	1.80 to 2.20	103	80.0 to 120	0.889	20.0
BD19765	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.06	0.107	1.94	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD19769	Solids, Dissolved	mg/L	0.0000	25.0			205	52.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-11

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 16:33  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19762

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/30/23 13:08	11/2/23 16:25		1.015	0.625	mg/L	0.030000	0.1015	
* Calcium, Total	10/30/23 13:08	11/14/23 13:28		10.15	62.4	mg/L	0.70035	4.06	
* Iron, Total	10/30/23 13:08	11/2/23 16:25		1.015	2.21	mg/L	0.008120	0.0406	
* Lithium, Total	10/30/23 13:08	11/2/23 16:25		1.015	0.200	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/30/23 13:08	11/2/23 16:25		1.015	14.5	mg/L	0.021315	0.406	
* Molybdenum, Total	10/30/23 13:08	11/2/23 16:25		1.015	0.0177	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 16:25		1	5.61	mg/L			
* Silicon, Total	10/30/23 13:08	11/2/23 16:25		1.015	2.62	mg/L	0.02030	0.25375	
* Sodium, Total	10/30/23 13:08	11/2/23 16:25		1.015	37.0	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/30/23 12:08	11/2/23 17:57		1.015	0.635	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/30/23 12:08	11/14/23 12:41		10.15	70.2	mg/L	0.70035	4.06	
* Iron, Dissolved	10/30/23 12:08	11/2/23 17:57		1.015	2.03	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/30/23 12:08	11/2/23 17:57		1.015	0.202	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/30/23 12:08	11/2/23 17:57		1.015	14.4	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/30/23 12:08	11/2/23 17:57		1.015	0.0171	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/30/23 12:08	11/2/23 17:57		1	5.76	mg/L			
* Silicon, Dissolved	10/30/23 12:08	11/2/23 17:57		1.015	2.69	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/30/23 12:08	11/2/23 17:57		1.015	36.7	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/30/23 13:08	10/30/23 18:30		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/30/23 13:08	10/30/23 18:30		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/30/23 13:08	10/30/23 18:30		1.015	0.00490	mg/L	0.000112	0.000203	
* Barium, Total	10/30/23 13:08	10/30/23 18:30		1.015	0.0747	mg/L	0.000508	0.001015	
* Beryllium, Total	10/30/23 13:08	10/30/23 18:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/30/23 13:08	10/30/23 18:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/30/23 13:08	10/30/23 18:30		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/30/23 13:08	10/30/23 18:30		1.015	0.0349	mg/L	0.000068	0.000203	
* Lead, Total	10/30/23 13:08	10/30/23 18:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/30/23 13:08	10/31/23 12:45		10.15	8.02	mg/L	0.001522	0.01015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-11

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 16:33  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19762

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/30/23 13:08	10/30/23 18:30		1.015	6.47	mg/L	0.169505	0.5075	
* Selenium, Total	10/30/23 13:08	10/30/23 18:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/30/23 13:08	10/30/23 18:30		1.015	0.000100	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/30/23 12:08	10/30/23 16:39		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/30/23 12:08	10/30/23 16:39		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/30/23 12:08	10/30/23 16:39		1.015	0.00448	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/30/23 12:08	10/30/23 16:39		1.015	0.0752	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/30/23 12:08	10/30/23 16:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/30/23 12:08	10/30/23 16:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/30/23 12:08	10/30/23 16:39		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/30/23 12:08	10/30/23 16:39		1.015	0.0357	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/30/23 12:08	10/30/23 16:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/30/23 12:08	10/31/23 12:05		10.15	7.47	mg/L	0.001522	0.01015	
* Potassium, Dissolved	10/30/23 12:08	10/30/23 16:39		1.015	6.91	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/30/23 12:08	10/30/23 16:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/30/23 12:08	10/30/23 16:39		1.015	0.0000931	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 16:11		1	0.000321	mg/L	0.0003	0.0005	J
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 12:09	11/15/23 12:09		1	0.141	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 14:59	10/26/23 14:59		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 14:25		1	4.48	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 14:25		1	103	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 13:17	10/27/23 13:37		1	374	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 14:25		1	103	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 14:25		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-11

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 16:33  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19762

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 18:09	10/27/23 18:09		1	1.58	mg/L	1.00	2	J
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 15:47	10/30/23 15:47		1	19.1	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 08:49	11/7/23 08:49		8	165	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: AWG</b>							
Conductivity	10/25/23 16:33	10/25/23 16:33			496.28	uS/cm			FA
pH	10/25/23 16:33	10/25/23 16:33			6.36	SU			FA
Temperature	10/25/23 16:33	10/25/23 16:33			21.56	C			FA
Turbidity	10/25/23 16:33	10/25/23 16:33			2.81	NTU			FA
Sulfide	10/25/23 16:33	10/25/23 16:33			0	mg/L			FA

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 16:33  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-11

**Laboratory ID Number:** BD19762

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19767	Aluminum, Dissolved	mg/L	-0.000178	0.0198	0.100	0.0950	0.0946	0.0939	0.0850 to 0.115	95.0	70.0 to 130	0.422	20.0
BD19767	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.0978	0.0970	0.0951	0.0850 to 0.115	97.8	70.0 to 130	0.821	20.0
BD19767	Antimony, Dissolved	mg/L	0.000272	0.00100	0.100	0.0982	0.0981	0.0931	0.0850 to 0.115	98.2	70.0 to 130	0.102	20.0
BD19767	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.102	0.100	0.0978	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD19767	Arsenic, Dissolved	mg/L	0.0000242	0.000200	0.100	0.0984	0.0998	0.0980	0.0850 to 0.115	98.4	70.0 to 130	1.41	20.0
BD19767	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0993	0.0973	0.0991	0.0850 to 0.115	99.3	70.0 to 130	2.03	20.0
BD19767	Barium, Dissolved	mg/L	0.0000446	0.00100	0.100	0.124	0.125	0.0980	0.0850 to 0.115	101	70.0 to 130	0.803	20.0
BD19767	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.131	0.130	0.0989	0.0850 to 0.115	106	70.0 to 130	0.766	20.0
BD19767	Beryllium, Dissolved	mg/L	0.0000017	0.000880	0.100	0.107	0.113	0.0985	0.0850 to 0.115	107	70.0 to 130	5.45	20.0
BD19767	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.0990	0.101	0.0960	0.0850 to 0.115	99.0	70.0 to 130	2.00	20.0
BD19767	Boron, Dissolved	mg/L	-0.000118	0.0650	1.00	1.01	1.02	0.951	0.850 to 1.15	94.4	70.0 to 130	0.985	20.0
BD19767	Boron, Total	mg/L	0.000015	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	95.3	70.0 to 130	0.976	20.0
BD19767	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0978	0.0952	0.0983	0.0850 to 0.115	97.7	70.0 to 130	2.69	20.0
BD19767	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0957	0.0976	0.0991	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0
BD19767	Calcium, Dissolved	mg/L	-0.0253	0.152	5.00	14.6	14.2	4.81	4.25 to 5.75	101	70.0 to 130	2.78	20.0
BD19767	Calcium, Total	mg/L	-0.0233	0.152	5.00	14.5	14.8	4.91	4.25 to 5.75	96.4	70.0 to 130	2.05	20.0
BD19764	Chloride	mg/L	0.0898	1.00	40.0	79.0	79.6	9.88	9.00 to 11.0	94.8	80.0 to 120	0.757	20.0
BD19767	Chromium, Dissolved	mg/L	-0.0000928	0.000440	0.100	0.0992	0.101	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.80	20.0
BD19767	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0987	0.0990	0.0980	0.0850 to 0.115	98.7	70.0 to 130	0.303	20.0
BD19767	Cobalt, Dissolved	mg/L	-0.0000269	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19767	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0991	0.101	0.0996	0.0850 to 0.115	99.0	70.0 to 130	1.90	20.0
BD19767	Iron, Dissolved	mg/L	-0.00107	0.0176	0.2	0.201	0.195	0.194	0.170 to 0.230	100	70.0 to 130	3.03	20.0
BD19767	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.199	0.202	0.173	0.170 to 0.230	99.5	70.0 to 130	1.50	20.0
BD19767	Lead, Dissolved	mg/L	-0.0000024	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	107	70.0 to 130	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 16:33  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-11

**Laboratory ID Number:** BD19762

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19767	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.116	0.108	0.108	0.0850 to 0.115	116	70.0 to 130	7.14	20.0
BD19767	Lithium, Dissolved	mg/L	0.000276	0.0154	0.200	0.236	0.235	0.195	0.170 to 0.230	96.8	70.0 to 130	0.425	20.0
BD19767	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.239	0.242	0.196	0.170 to 0.230	97.8	70.0 to 130	1.25	20.0
BD19767	Magnesium, Dissolved	mg/L	-0.00166	0.0462	5.00	7.16	6.97	4.88	4.25 to 5.75	96.6	70.0 to 130	2.69	20.0
BD19767	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	7.25	7.32	4.82	4.25 to 5.75	97.0	70.0 to 130	0.961	20.0
BD19767	Manganese, Dissolved	mg/L	0.0000794	0.00033	0.100	0.184	0.185	0.0976	0.0850 to 0.115	95.0	70.0 to 130	0.542	20.0
BD19767	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.182	0.186	0.0958	0.0850 to 0.115	92.8	70.0 to 130	2.17	20.0
BD19770	Mercury, Total by CVAA	mg/L	0.000178	0.000500	0.004	0.00381	0.00387	0.00380	0.00340 to 0.00460	95.2	70.0 to 130	1.56	20.0
BD19767	Molybdenum, Dissolved	mg/L	0.000556	0.0100	0.2	0.196	0.196	0.198	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD19767	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.197	0.200	0.197	0.170 to 0.230	98.5	70.0 to 130	1.51	20.0
BD19767	Potassium, Dissolved	mg/L	0.163	0.367	10.0	12.1	11.9	10.3	8.50 to 11.5	98.4	70.0 to 130	1.67	20.0
BD19767	Potassium, Total	mg/L	-0.0126	0.367	10.0	11.9	12.0	9.77	8.50 to 11.5	97.7	70.0 to 130	0.837	20.0
BD19767	Selenium, Dissolved	mg/L	0.0000076	0.00100	0.100	0.0989	0.0991	0.103	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BD19767	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0986	0.0971	0.0977	0.0850 to 0.115	98.6	70.0 to 130	1.53	20.0
BD19767	Silicon, Dissolved	mg/L	0.000968	0.0440	1.00	4.52	4.53	0.989	0.850 to 1.15	103	70.0 to 130	0.221	20.0
BD19767	Silicon, Total	mg/L	-0.000714	0.0440	1.00	4.54	4.58	1.06	0.850 to 1.15	101	70.0 to 130	0.877	20.0
BD19767	Sodium, Dissolved	mg/L	0.00339	0.0880	5.00	9.11	8.99	4.88	4.25 to 5.75	97.0	70.0 to 130	1.33	20.0
BD19767	Sodium, Total	mg/L	0.00941	0.0880	5.00	9.19	9.30	4.96	4.25 to 5.75	96.2	70.0 to 130	1.19	20.0
BD19766	Sulfate	mg/L	-0.128	2.0	200	318	321	20.4	18.0 to 22.0	96.0	80.0 to 120	0.939	20.0
BD19767	Thallium, Dissolved	mg/L	-0.0000198	0.000147	0.100	0.103	0.101	0.106	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD19767	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.113	0.105	0.106	0.0850 to 0.115	113	70.0 to 130	7.34	20.0
BD19765	Total Organic Carbon	mg/L	0.132	1.00	10.0	11.6	12.6	23.6		86.2	80.0 to 120	8.26	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 16:33  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-11

**Laboratory ID Number:** BD19762

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD19764	Fluoride	mg/L	0.000000	0.0200	2.00	2.17	0.113	2.06	1.80 to 2.20	103	80.0 to 120	0.889	20.0
BD19765	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.06	0.107	1.94	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD19769	Solids, Dissolved	mg/L	0.0000	25.0			205	52.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-35H

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 16:11  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19763

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	10/30/23 13:08	11/2/23 16:28		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/30/23 13:08	11/2/23 16:28		1.015	23.5	mg/L	0.070035	0.406		
* Iron, Total	10/30/23 13:08	11/2/23 16:28		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	10/30/23 13:08	11/2/23 16:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/30/23 13:08	11/2/23 16:28		1.015	2.96	mg/L	0.021315	0.406		
* Molybdenum, Total	10/30/23 13:08	11/2/23 16:28		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 16:28		1	8.43	mg/L				
* Silicon, Total	10/30/23 13:08	11/2/23 16:28		1.015	3.94	mg/L	0.02030	0.25375		
* Sodium, Total	10/30/23 13:08	11/2/23 16:28		1.015	3.21	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	10/30/23 12:08	11/2/23 18:00		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	10/30/23 12:08	11/2/23 18:00		1.015	23.2	mg/L	0.070035	0.406		
* Iron, Dissolved	10/30/23 12:08	11/2/23 18:00		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	10/30/23 12:08	11/2/23 18:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	10/30/23 12:08	11/2/23 18:00		1.015	2.94	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	10/30/23 12:08	11/2/23 18:00		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	10/30/23 12:08	11/2/23 18:00		1	8.47	mg/L				
* Silicon, Dissolved	10/30/23 12:08	11/2/23 18:00		1.015	3.96	mg/L	0.02030	0.25375		
* Sodium, Dissolved	10/30/23 12:08	11/2/23 18:00		1.015	3.18	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	10/30/23 13:08	10/30/23 18:34		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	10/30/23 13:08	10/30/23 18:34		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	10/30/23 13:08	10/30/23 18:34		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	10/30/23 13:08	10/30/23 18:34		1.015	0.0464	mg/L	0.000508	0.001015		
* Beryllium, Total	10/30/23 13:08	10/30/23 18:34		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/30/23 13:08	10/30/23 18:34		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/30/23 13:08	10/30/23 18:34		1.015	0.000332	mg/L	0.000203	0.001015	J	
* Cobalt, Total	10/30/23 13:08	10/30/23 18:34		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	10/30/23 13:08	10/30/23 18:34		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/30/23 13:08	10/30/23 18:34		1.015	0.000253	mg/L	0.000152	0.001015	J	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-35H

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 16:11  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19763

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/30/23 13:08	10/30/23 18:34		1.015	1.46	mg/L	0.169505	0.5075	
* Selenium, Total	10/30/23 13:08	10/30/23 18:34		1.015	0.00326	mg/L	0.000508	0.001015	
* Thallium, Total	10/30/23 13:08	10/30/23 18:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/30/23 12:08	10/30/23 16:42		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/30/23 12:08	10/30/23 16:42		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/30/23 12:08	10/30/23 16:42		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/30/23 12:08	10/30/23 16:42		1.015	0.0449	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/30/23 12:08	10/30/23 16:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/30/23 12:08	10/30/23 16:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/30/23 12:08	10/30/23 16:42		1.015	0.000329	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	10/30/23 12:08	10/30/23 16:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/30/23 12:08	10/30/23 16:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/30/23 12:08	10/30/23 16:42		1.015	0.000216	mg/L	0.000152	0.001015	J
* Potassium, Dissolved	10/30/23 12:08	10/30/23 16:42		1.015	1.60	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/30/23 12:08	10/30/23 16:42		1.015	0.00314	mg/L	0.000508	0.001015	
* Thallium, Dissolved	10/30/23 12:08	10/30/23 16:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 16:13		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 12:32	11/15/23 12:32		1	0.0582	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 15:00	10/26/23 15:00		1	1.01	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/7/23 10:15	11/7/23 12:00		1	4.45	SU		2	
* Alkalinity	11/7/23 10:15	11/7/23 12:00		1	44.1	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 13:17	10/27/23 13:37		1	101	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/7/23 10:15	11/7/23 12:00		1	44.1	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/7/23 10:15	11/7/23 12:00		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-35H

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 16:11  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19763

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 18:24	10/27/23 18:24		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 15:48	10/30/23 15:48		1	4.15	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 08:37	11/7/23 08:37		1	34.4	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/24/23 16:07	10/24/23 16:07			165.42	uS/cm			FA
pH	10/24/23 16:07	10/24/23 16:07			5.74	SU			FA
Temperature	10/24/23 16:07	10/24/23 16:07			22.54	C			FA
Turbidity	10/24/23 16:07	10/24/23 16:07			1.86	NTU			FA
Sulfide	10/24/23 16:07	10/24/23 16:07			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 16:11  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-35H

**Laboratory ID Number:** BD19763

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19767	Aluminum, Dissolved	mg/L	-0.000178	0.0198	0.100	0.0950	0.0946	0.0939	0.0850 to 0.115	95.0	70.0 to 130	0.422	20.0
BD19767	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.0978	0.0970	0.0951	0.0850 to 0.115	97.8	70.0 to 130	0.821	20.0
BD19767	Antimony, Dissolved	mg/L	0.000272	0.00100	0.100	0.0982	0.0981	0.0931	0.0850 to 0.115	98.2	70.0 to 130	0.102	20.0
BD19767	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.102	0.100	0.0978	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD19767	Arsenic, Dissolved	mg/L	0.0000242	0.000200	0.100	0.0984	0.0998	0.0980	0.0850 to 0.115	98.4	70.0 to 130	1.41	20.0
BD19767	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0993	0.0973	0.0991	0.0850 to 0.115	99.3	70.0 to 130	2.03	20.0
BD19767	Barium, Dissolved	mg/L	0.0000446	0.00100	0.100	0.124	0.125	0.0980	0.0850 to 0.115	101	70.0 to 130	0.803	20.0
BD19767	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.131	0.130	0.0989	0.0850 to 0.115	106	70.0 to 130	0.766	20.0
BD19767	Beryllium, Dissolved	mg/L	0.0000017	0.000880	0.100	0.107	0.113	0.0985	0.0850 to 0.115	107	70.0 to 130	5.45	20.0
BD19767	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.0990	0.101	0.0960	0.0850 to 0.115	99.0	70.0 to 130	2.00	20.0
BD19767	Boron, Dissolved	mg/L	-0.000118	0.0650	1.00	1.01	1.02	0.951	0.850 to 1.15	94.4	70.0 to 130	0.985	20.0
BD19767	Boron, Total	mg/L	0.000015	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	95.3	70.0 to 130	0.976	20.0
BD19767	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0978	0.0952	0.0983	0.0850 to 0.115	97.7	70.0 to 130	2.69	20.0
BD19767	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0957	0.0976	0.0991	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0
BD19767	Calcium, Dissolved	mg/L	-0.0253	0.152	5.00	14.6	14.2	4.81	4.25 to 5.75	101	70.0 to 130	2.78	20.0
BD19767	Calcium, Total	mg/L	-0.0233	0.152	5.00	14.5	14.8	4.91	4.25 to 5.75	96.4	70.0 to 130	2.05	20.0
BD19764	Chloride	mg/L	0.0898	1.00	40.0	79.0	79.6	9.88	9.00 to 11.0	94.8	80.0 to 120	0.757	20.0
BD19767	Chromium, Dissolved	mg/L	-0.0000928	0.000440	0.100	0.0992	0.101	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.80	20.0
BD19767	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0987	0.0990	0.0980	0.0850 to 0.115	98.7	70.0 to 130	0.303	20.0
BD19767	Cobalt, Dissolved	mg/L	-0.0000269	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19767	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0991	0.101	0.0996	0.0850 to 0.115	99.0	70.0 to 130	1.90	20.0
BD19767	Iron, Dissolved	mg/L	-0.00107	0.0176	0.2	0.201	0.195	0.194	0.170 to 0.230	100	70.0 to 130	3.03	20.0
BD19767	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.199	0.202	0.173	0.170 to 0.230	99.5	70.0 to 130	1.50	20.0
BD19767	Lead, Dissolved	mg/L	-0.0000024	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	107	70.0 to 130	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 16:11  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-35H

**Laboratory ID Number:** BD19763

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19767	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.116	0.108	0.108	0.0850 to 0.115	116	70.0 to 130	7.14	20.0
BD19767	Lithium, Dissolved	mg/L	0.000276	0.0154	0.200	0.236	0.235	0.195	0.170 to 0.230	96.8	70.0 to 130	0.425	20.0
BD19767	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.239	0.242	0.196	0.170 to 0.230	97.8	70.0 to 130	1.25	20.0
BD19767	Magnesium, Dissolved	mg/L	-0.00166	0.0462	5.00	7.16	6.97	4.88	4.25 to 5.75	96.6	70.0 to 130	2.69	20.0
BD19767	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	7.25	7.32	4.82	4.25 to 5.75	97.0	70.0 to 130	0.961	20.0
BD19767	Manganese, Dissolved	mg/L	0.0000794	0.00033	0.100	0.184	0.185	0.0976	0.0850 to 0.115	95.0	70.0 to 130	0.542	20.0
BD19767	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.182	0.186	0.0958	0.0850 to 0.115	92.8	70.0 to 130	2.17	20.0
BD19770	Mercury, Total by CVAA	mg/L	0.000178	0.000500	0.004	0.00381	0.00387	0.00380	0.00340 to 0.00460	95.2	70.0 to 130	1.56	20.0
BD19767	Molybdenum, Dissolved	mg/L	0.000556	0.0100	0.2	0.196	0.196	0.198	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD19767	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.197	0.200	0.197	0.170 to 0.230	98.5	70.0 to 130	1.51	20.0
BD19767	Potassium, Dissolved	mg/L	0.163	0.367	10.0	12.1	11.9	10.3	8.50 to 11.5	98.4	70.0 to 130	1.67	20.0
BD19767	Potassium, Total	mg/L	-0.0126	0.367	10.0	11.9	12.0	9.77	8.50 to 11.5	97.7	70.0 to 130	0.837	20.0
BD19767	Selenium, Dissolved	mg/L	0.0000076	0.00100	0.100	0.0989	0.0991	0.103	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BD19767	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0986	0.0971	0.0977	0.0850 to 0.115	98.6	70.0 to 130	1.53	20.0
BD19767	Silicon, Dissolved	mg/L	0.000968	0.0440	1.00	4.52	4.53	0.989	0.850 to 1.15	103	70.0 to 130	0.221	20.0
BD19767	Silicon, Total	mg/L	-0.000714	0.0440	1.00	4.54	4.58	1.06	0.850 to 1.15	101	70.0 to 130	0.877	20.0
BD19767	Sodium, Dissolved	mg/L	0.00339	0.0880	5.00	9.11	8.99	4.88	4.25 to 5.75	97.0	70.0 to 130	1.33	20.0
BD19767	Sodium, Total	mg/L	0.00941	0.0880	5.00	9.19	9.30	4.96	4.25 to 5.75	96.2	70.0 to 130	1.19	20.0
BD19766	Sulfate	mg/L	-0.128	2.0	200	318	321	20.4	18.0 to 22.0	96.0	80.0 to 120	0.939	20.0
BD19767	Thallium, Dissolved	mg/L	-0.0000198	0.000147	0.100	0.103	0.101	0.106	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD19767	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.113	0.105	0.106	0.0850 to 0.115	113	70.0 to 130	7.34	20.0
BD19765	Total Organic Carbon	mg/L	0.132	1.00	10.0	11.6	12.6	23.6		86.2	80.0 to 120	8.26	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 16:11  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-35H

**Laboratory ID Number:** BD19763

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19763	Alkalinity	mg CaCO3/L					44.0	51.6	45.0 to 55.0			0.227	10.0
BD19764	Fluoride	mg/L	0.000000	0.0200	2.00	2.17	0.113	2.06	1.80 to 2.20	103	80.0 to 120	0.889	20.0
BD19765	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.06	0.107	1.94	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD19769	Solids, Dissolved	mg/L	0.0000	25.0			205	52.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-43H

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 09:00  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19764

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/30/23 13:08	11/2/23 16:31		1.015	1.02	mg/L	0.030000	0.1015	
* Calcium, Total	10/30/23 13:08	11/14/23 13:31		10.15	94.8	mg/L	0.70035	4.06	
* Iron, Total	10/30/23 13:08	11/14/23 13:31		10.15	8.57	mg/L	0.08120	0.406	
* Lithium, Total	10/30/23 13:08	11/2/23 16:31		1.015	0.122	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/30/23 13:08	11/2/23 16:31		1.015	27.3	mg/L	0.021315	0.406	
* Molybdenum, Total	10/30/23 13:08	11/2/23 16:31		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 16:31		1	8.80	mg/L			
* Silicon, Total	10/30/23 13:08	11/2/23 16:31		1.015	4.11	mg/L	0.02030	0.25375	
* Sodium, Total	10/30/23 13:08	11/14/23 13:31		10.15	52.2	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/30/23 12:08	11/2/23 18:03		1.015	1.03	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/30/23 12:08	11/14/23 12:44		10.15	106	mg/L	0.70035	4.06	
* Iron, Dissolved	10/30/23 12:08	11/14/23 12:44		10.15	8.77	mg/L	0.08120	0.406	
* Lithium, Dissolved	10/30/23 12:08	11/2/23 18:03		1.015	0.122	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/30/23 12:08	11/2/23 18:03		1.015	27.5	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/30/23 12:08	11/2/23 18:03		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/30/23 12:08	11/2/23 18:03		1	8.86	mg/L			
* Silicon, Dissolved	10/30/23 12:08	11/2/23 18:03		1.015	4.14	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/30/23 12:08	11/14/23 12:44		10.15	57.2	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/30/23 13:08	10/30/23 18:37		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/30/23 13:08	10/30/23 18:37		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/30/23 13:08	10/30/23 18:37		1.015	0.0114	mg/L	0.000112	0.000203	
* Barium, Total	10/30/23 13:08	10/30/23 18:37		1.015	0.159	mg/L	0.000508	0.001015	
* Beryllium, Total	10/30/23 13:08	10/30/23 18:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/30/23 13:08	10/30/23 18:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/30/23 13:08	10/30/23 18:37		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/30/23 13:08	10/30/23 18:37		1.015	0.0170	mg/L	0.000068	0.000203	
* Lead, Total	10/30/23 13:08	10/30/23 18:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/30/23 13:08	10/31/23 12:49		10.15	8.94	mg/L	0.001522	0.01015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-43H

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 09:00  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19764

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/30/23 13:08	10/30/23 18:37		1.015	7.89	mg/L	0.169505	0.5075	
* Selenium, Total	10/30/23 13:08	10/30/23 18:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/30/23 13:08	10/30/23 18:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/30/23 12:08	10/30/23 16:46		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/30/23 12:08	10/30/23 16:46		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/30/23 12:08	10/30/23 16:46		1.015	0.0112	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/30/23 12:08	10/30/23 16:46		1.015	0.156	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/30/23 12:08	10/30/23 16:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/30/23 12:08	10/30/23 16:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/30/23 12:08	10/30/23 16:46		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/30/23 12:08	10/30/23 16:46		1.015	0.0174	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/30/23 12:08	10/30/23 16:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/30/23 12:08	10/31/23 12:08		10.15	9.76	mg/L	0.001522	0.01015	
* Potassium, Dissolved	10/30/23 12:08	10/30/23 16:46		1.015	8.21	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/30/23 12:08	10/30/23 16:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/30/23 12:08	10/30/23 16:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 16:16		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 12:55	11/15/23 12:55		1	0.112	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 15:02	10/26/23 15:02		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 08:42		1	4.51	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 08:42		1	336	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 13:17	10/27/23 13:37		1	511	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 08:42		1	336	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 08:42		1	Not Detected	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-43H

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 09:00  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19764

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 18:41	10/27/23 18:41		1	3.19	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 15:49	10/30/23 15:49		4	41.1	mg/L	2.00	4	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 08:50	11/7/23 08:50		4	73.7	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/25/23 08:57	10/25/23 08:57			792.65	uS/cm			FA
pH	10/25/23 08:57	10/25/23 08:57			6.41	SU			FA
Temperature	10/25/23 08:57	10/25/23 08:57			19.65	C			FA
Turbidity	10/25/23 08:57	10/25/23 08:57			3.14	NTU			FA
Sulfide	10/25/23 08:57	10/25/23 08:57			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 09:00  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-43H

**Laboratory ID Number:** BD19764

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD19767	Aluminum, Dissolved	mg/L	-0.000178	0.0198	0.100	0.0950	0.0946	0.0939	0.0850 to 0.115	95.0	70.0 to 130	0.422	20.0
BD19767	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.0978	0.0970	0.0951	0.0850 to 0.115	97.8	70.0 to 130	0.821	20.0
BD19767	Antimony, Dissolved	mg/L	0.000272	0.00100	0.100	0.0982	0.0981	0.0931	0.0850 to 0.115	98.2	70.0 to 130	0.102	20.0
BD19767	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.102	0.100	0.0978	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD19767	Arsenic, Dissolved	mg/L	0.0000242	0.000200	0.100	0.0984	0.0998	0.0980	0.0850 to 0.115	98.4	70.0 to 130	1.41	20.0
BD19767	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0993	0.0973	0.0991	0.0850 to 0.115	99.3	70.0 to 130	2.03	20.0
BD19767	Barium, Dissolved	mg/L	0.0000446	0.00100	0.100	0.124	0.125	0.0980	0.0850 to 0.115	101	70.0 to 130	0.803	20.0
BD19767	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.131	0.130	0.0989	0.0850 to 0.115	106	70.0 to 130	0.766	20.0
BD19767	Beryllium, Dissolved	mg/L	0.0000017	0.000880	0.100	0.107	0.113	0.0985	0.0850 to 0.115	107	70.0 to 130	5.45	20.0
BD19767	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.0990	0.101	0.0960	0.0850 to 0.115	99.0	70.0 to 130	2.00	20.0
BD19767	Boron, Dissolved	mg/L	-0.000118	0.0650	1.00	1.01	1.02	0.951	0.850 to 1.15	94.4	70.0 to 130	0.985	20.0
BD19767	Boron, Total	mg/L	0.000015	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	95.3	70.0 to 130	0.976	20.0
BD19767	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0978	0.0952	0.0983	0.0850 to 0.115	97.7	70.0 to 130	2.69	20.0
BD19767	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0957	0.0976	0.0991	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0
BD19767	Calcium, Dissolved	mg/L	-0.0253	0.152	5.00	14.6	14.2	4.81	4.25 to 5.75	101	70.0 to 130	2.78	20.0
BD19767	Calcium, Total	mg/L	-0.0233	0.152	5.00	14.5	14.8	4.91	4.25 to 5.75	96.4	70.0 to 130	2.05	20.0
BD19764	Chloride	mg/L	0.0898	1.00	40.0	79.0	79.6	9.88	9.00 to 11.0	94.8	80.0 to 120	0.757	20.0
BD19767	Chromium, Dissolved	mg/L	-0.0000928	0.000440	0.100	0.0992	0.101	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.80	20.0
BD19767	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0987	0.0990	0.0980	0.0850 to 0.115	98.7	70.0 to 130	0.303	20.0
BD19767	Cobalt, Dissolved	mg/L	-0.0000269	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19767	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0991	0.101	0.0996	0.0850 to 0.115	99.0	70.0 to 130	1.90	20.0
BD19767	Iron, Dissolved	mg/L	-0.00107	0.0176	0.2	0.201	0.195	0.194	0.170 to 0.230	100	70.0 to 130	3.03	20.0
BD19767	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.199	0.202	0.173	0.170 to 0.230	99.5	70.0 to 130	1.50	20.0
BD19767	Lead, Dissolved	mg/L	-0.0000024	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	107	70.0 to 130	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 09:00  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-43H

**Laboratory ID Number:** BD19764

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19767	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.116	0.108	0.108	0.0850 to 0.115	116	70.0 to 130	7.14	20.0
BD19767	Lithium, Dissolved	mg/L	0.000276	0.0154	0.200	0.236	0.235	0.195	0.170 to 0.230	96.8	70.0 to 130	0.425	20.0
BD19767	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.239	0.242	0.196	0.170 to 0.230	97.8	70.0 to 130	1.25	20.0
BD19767	Magnesium, Dissolved	mg/L	-0.00166	0.0462	5.00	7.16	6.97	4.88	4.25 to 5.75	96.6	70.0 to 130	2.69	20.0
BD19767	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	7.25	7.32	4.82	4.25 to 5.75	97.0	70.0 to 130	0.961	20.0
BD19767	Manganese, Dissolved	mg/L	0.0000794	0.00033	0.100	0.184	0.185	0.0976	0.0850 to 0.115	95.0	70.0 to 130	0.542	20.0
BD19767	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.182	0.186	0.0958	0.0850 to 0.115	92.8	70.0 to 130	2.17	20.0
BD19770	Mercury, Total by CVAA	mg/L	0.000178	0.000500	0.004	0.00381	0.00387	0.00380	0.00340 to 0.00460	95.2	70.0 to 130	1.56	20.0
BD19767	Molybdenum, Dissolved	mg/L	0.000556	0.0100	0.2	0.196	0.196	0.198	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD19767	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.197	0.200	0.197	0.170 to 0.230	98.5	70.0 to 130	1.51	20.0
BD19767	Potassium, Dissolved	mg/L	0.163	0.367	10.0	12.1	11.9	10.3	8.50 to 11.5	98.4	70.0 to 130	1.67	20.0
BD19767	Potassium, Total	mg/L	-0.0126	0.367	10.0	11.9	12.0	9.77	8.50 to 11.5	97.7	70.0 to 130	0.837	20.0
BD19767	Selenium, Dissolved	mg/L	0.0000076	0.00100	0.100	0.0989	0.0991	0.103	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BD19767	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0986	0.0971	0.0977	0.0850 to 0.115	98.6	70.0 to 130	1.53	20.0
BD19767	Silicon, Dissolved	mg/L	0.000968	0.0440	1.00	4.52	4.53	0.989	0.850 to 1.15	103	70.0 to 130	0.221	20.0
BD19767	Silicon, Total	mg/L	-0.000714	0.0440	1.00	4.54	4.58	1.06	0.850 to 1.15	101	70.0 to 130	0.877	20.0
BD19767	Sodium, Dissolved	mg/L	0.00339	0.0880	5.00	9.11	8.99	4.88	4.25 to 5.75	97.0	70.0 to 130	1.33	20.0
BD19767	Sodium, Total	mg/L	0.00941	0.0880	5.00	9.19	9.30	4.96	4.25 to 5.75	96.2	70.0 to 130	1.19	20.0
BD19766	Sulfate	mg/L	-0.128	2.0	200	318	321	20.4	18.0 to 22.0	96.0	80.0 to 120	0.939	20.0
BD19767	Thallium, Dissolved	mg/L	-0.0000198	0.000147	0.100	0.103	0.101	0.106	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD19767	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.113	0.105	0.106	0.0850 to 0.115	113	70.0 to 130	7.34	20.0
BD19765	Total Organic Carbon	mg/L	0.132	1.00	10.0	11.6	12.6	23.6		86.2	80.0 to 120	8.26	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 09:00  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-43H

**Laboratory ID Number:** BD19764

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD19764	Fluoride	mg/L	0.000000	0.0200	2.00	2.17	0.113	2.06	1.80 to 2.20	103	80.0 to 120	0.889	20.0
BD19765	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.06	0.107	1.94	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD19769	Solids, Dissolved	mg/L	0.0000	25.0			205	52.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-42H

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 09:55  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19765

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/30/23 13:08	11/2/23 16:35		1.015	1.87	mg/L	0.030000	0.1015	
* Calcium, Total	10/30/23 13:08	11/14/23 13:34		10.15	94.5	mg/L	0.70035	4.06	
* Iron, Total	10/30/23 13:08	11/14/23 13:34		10.15	9.88	mg/L	0.08120	0.406	
* Lithium, Total	10/30/23 13:08	11/2/23 16:35		1.015	0.0437	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/30/23 13:08	11/2/23 16:35		1.015	15.1	mg/L	0.021315	0.406	
* Molybdenum, Total	10/30/23 13:08	11/2/23 16:35		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 16:35		1	8.60	mg/L			
* Silicon, Total	10/30/23 13:08	11/2/23 16:35		1.015	4.02	mg/L	0.02030	0.25375	
* Sodium, Total	10/30/23 13:08	11/2/23 16:35		1.015	33.0	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/30/23 12:08	11/2/23 18:06		1.015	1.87	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/30/23 12:08	11/14/23 12:47		10.15	88.5	mg/L	0.70035	4.06	
* Iron, Dissolved	10/30/23 12:08	11/14/23 12:47		10.15	9.33	mg/L	0.08120	0.406	
* Lithium, Dissolved	10/30/23 12:08	11/2/23 18:06		1.015	0.0433	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/30/23 12:08	11/2/23 18:06		1.015	14.8	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/30/23 12:08	11/2/23 18:06		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/30/23 12:08	11/2/23 18:06		1	8.58	mg/L			
* Silicon, Dissolved	10/30/23 12:08	11/2/23 18:06		1.015	4.01	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/30/23 12:08	11/2/23 18:06		1.015	32.5	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/30/23 13:08	10/30/23 18:41		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/30/23 13:08	10/30/23 18:41		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/30/23 13:08	10/30/23 18:41		1.015	0.00421	mg/L	0.000112	0.000203	
* Barium, Total	10/30/23 13:08	10/30/23 18:41		1.015	0.153	mg/L	0.000508	0.001015	
* Beryllium, Total	10/30/23 13:08	10/30/23 18:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/30/23 13:08	10/30/23 18:41		1.015	0.000127	mg/L	0.000068	0.000203	J
* Chromium, Total	10/30/23 13:08	10/30/23 18:41		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/30/23 13:08	10/30/23 18:41		1.015	0.0411	mg/L	0.000068	0.000203	
* Lead, Total	10/30/23 13:08	10/30/23 18:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/30/23 13:08	10/31/23 12:53		5.075	4.14	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-42H

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 09:55  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19765

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/30/23 13:08	10/30/23 18:41		1.015	4.54	mg/L	0.169505	0.5075	
* Selenium, Total	10/30/23 13:08	10/30/23 18:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/30/23 13:08	10/30/23 18:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/30/23 12:08	10/30/23 16:50		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/30/23 12:08	10/30/23 16:50		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/30/23 12:08	10/30/23 16:50		1.015	0.00427	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/30/23 12:08	10/30/23 16:50		1.015	0.148	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/30/23 12:08	10/30/23 16:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/30/23 12:08	10/30/23 16:50		1.015	0.000134	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	10/30/23 12:08	10/30/23 16:50		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/30/23 12:08	10/30/23 16:50		1.015	0.0417	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/30/23 12:08	10/30/23 16:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/30/23 12:08	10/31/23 12:12		5.075	4.03	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/30/23 12:08	10/30/23 16:50		1.015	4.73	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/30/23 12:08	10/30/23 16:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/30/23 12:08	10/30/23 16:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 16:18		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 14:06	11/15/23 14:06		1	0.0583	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 15:04	10/26/23 15:04		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 08:54		1	4.48	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 08:54		1	170	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 13:17	10/27/23 13:37		1	414	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 08:54		1	170	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 08:54		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-42H

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 09:55  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19765

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/27/23 18:57	10/27/23 18:57		1	2.98	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 16:18	10/30/23 16:18		1	16.2	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 08:51	11/7/23 08:51		8	146	mg/L	4.8	16	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/25/23 09:52	10/25/23 09:52			607.77	uS/cm			FA
pH	10/25/23 09:52	10/25/23 09:52			6.35	SU			FA
Temperature	10/25/23 09:52	10/25/23 09:52			20.23	C			FA
Turbidity	10/25/23 09:52	10/25/23 09:52			5.65	NTU			FA
Sulfide	10/25/23 09:52	10/25/23 09:52			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 09:55  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-42H

**Laboratory ID Number:** BD19765

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD19767	Aluminum, Dissolved	mg/L	-0.000178	0.0198	0.100	0.0950	0.0946	0.0939	0.0850 to 0.115	95.0	70.0 to 130	0.422	20.0	
BD19767	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.0978	0.0970	0.0951	0.0850 to 0.115	97.8	70.0 to 130	0.821	20.0	
BD19767	Antimony, Dissolved	mg/L	0.000272	0.00100	0.100	0.0982	0.0981	0.0931	0.0850 to 0.115	98.2	70.0 to 130	0.102	20.0	
BD19767	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.102	0.100	0.0978	0.0850 to 0.115	102	70.0 to 130	1.98	20.0	
BD19767	Arsenic, Dissolved	mg/L	0.0000242	0.000200	0.100	0.0984	0.0998	0.0980	0.0850 to 0.115	98.4	70.0 to 130	1.41	20.0	
BD19767	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0993	0.0973	0.0991	0.0850 to 0.115	99.3	70.0 to 130	2.03	20.0	
BD19767	Barium, Dissolved	mg/L	0.0000446	0.00100	0.100	0.124	0.125	0.0980	0.0850 to 0.115	101	70.0 to 130	0.803	20.0	
BD19767	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.131	0.130	0.0989	0.0850 to 0.115	106	70.0 to 130	0.766	20.0	
BD19767	Beryllium, Dissolved	mg/L	0.0000017	0.000880	0.100	0.107	0.113	0.0985	0.0850 to 0.115	107	70.0 to 130	5.45	20.0	
BD19767	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.0990	0.101	0.0960	0.0850 to 0.115	99.0	70.0 to 130	2.00	20.0	
BD19767	Boron, Dissolved	mg/L	-0.000118	0.0650	1.00	1.01	1.02	0.951	0.850 to 1.15	94.4	70.0 to 130	0.985	20.0	
BD19767	Boron, Total	mg/L	0.000015	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	95.3	70.0 to 130	0.976	20.0	
BD19767	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0978	0.0952	0.0983	0.0850 to 0.115	97.7	70.0 to 130	2.69	20.0	
BD19767	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0957	0.0976	0.0991	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0	
BD19767	Calcium, Dissolved	mg/L	-0.0253	0.152	5.00	14.6	14.2	4.81	4.25 to 5.75	101	70.0 to 130	2.78	20.0	
BD19767	Calcium, Total	mg/L	-0.0233	0.152	5.00	14.5	14.8	4.91	4.25 to 5.75	96.4	70.0 to 130	2.05	20.0	
BD19774	Chloride	mg/L	0.00508	1.00	10.0	11.1	11.4	9.93	9.00 to 11.0	98.2	80.0 to 120	2.67	20.0	
BD19767	Chromium, Dissolved	mg/L	-0.0000928	0.000440	0.100	0.0992	0.101	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.80	20.0	
BD19767	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0987	0.0990	0.0980	0.0850 to 0.115	98.7	70.0 to 130	0.303	20.0	
BD19767	Cobalt, Dissolved	mg/L	-0.0000269	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BD19767	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0991	0.101	0.0996	0.0850 to 0.115	99.0	70.0 to 130	1.90	20.0	
BD19767	Iron, Dissolved	mg/L	-0.00107	0.0176	0.2	0.201	0.195	0.194	0.170 to 0.230	100	70.0 to 130	3.03	20.0	
BD19767	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.199	0.202	0.173	0.170 to 0.230	99.5	70.0 to 130	1.50	20.0	
BD19767	Lead, Dissolved	mg/L	-0.0000024	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	107	70.0 to 130	0.939	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 09:55  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-42H

**Laboratory ID Number:** BD19765

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19767	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.116	0.108	0.108	0.0850 to 0.115	116	70.0 to 130	7.14	20.0
BD19767	Lithium, Dissolved	mg/L	0.000276	0.0154	0.200	0.236	0.235	0.195	0.170 to 0.230	96.8	70.0 to 130	0.425	20.0
BD19767	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.239	0.242	0.196	0.170 to 0.230	97.8	70.0 to 130	1.25	20.0
BD19767	Magnesium, Dissolved	mg/L	-0.00166	0.0462	5.00	7.16	6.97	4.88	4.25 to 5.75	96.6	70.0 to 130	2.69	20.0
BD19767	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	7.25	7.32	4.82	4.25 to 5.75	97.0	70.0 to 130	0.961	20.0
BD19767	Manganese, Dissolved	mg/L	0.0000794	0.00033	0.100	0.184	0.185	0.0976	0.0850 to 0.115	95.0	70.0 to 130	0.542	20.0
BD19767	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.182	0.186	0.0958	0.0850 to 0.115	92.8	70.0 to 130	2.17	20.0
BD19770	Mercury, Total by CVAA	mg/L	0.000178	0.000500	0.004	0.00381	0.00387	0.00380	0.00340 to 0.00460	95.2	70.0 to 130	1.56	20.0
BD19767	Molybdenum, Dissolved	mg/L	0.000556	0.0100	0.2	0.196	0.196	0.198	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD19767	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.197	0.200	0.197	0.170 to 0.230	98.5	70.0 to 130	1.51	20.0
BD19767	Potassium, Dissolved	mg/L	0.163	0.367	10.0	12.1	11.9	10.3	8.50 to 11.5	98.4	70.0 to 130	1.67	20.0
BD19767	Potassium, Total	mg/L	-0.0126	0.367	10.0	11.9	12.0	9.77	8.50 to 11.5	97.7	70.0 to 130	0.837	20.0
BD19767	Selenium, Dissolved	mg/L	0.0000076	0.00100	0.100	0.0989	0.0991	0.103	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BD19767	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0986	0.0971	0.0977	0.0850 to 0.115	98.6	70.0 to 130	1.53	20.0
BD19767	Silicon, Dissolved	mg/L	0.000968	0.0440	1.00	4.52	4.53	0.989	0.850 to 1.15	103	70.0 to 130	0.221	20.0
BD19767	Silicon, Total	mg/L	-0.000714	0.0440	1.00	4.54	4.58	1.06	0.850 to 1.15	101	70.0 to 130	0.877	20.0
BD19767	Sodium, Dissolved	mg/L	0.00339	0.0880	5.00	9.11	8.99	4.88	4.25 to 5.75	97.0	70.0 to 130	1.33	20.0
BD19767	Sodium, Total	mg/L	0.00941	0.0880	5.00	9.19	9.30	4.96	4.25 to 5.75	96.2	70.0 to 130	1.19	20.0
BD19766	Sulfate	mg/L	-0.128	2.0	200	318	321	20.4	18.0 to 22.0	96.0	80.0 to 120	0.939	20.0
BD19767	Thallium, Dissolved	mg/L	-0.0000198	0.000147	0.100	0.103	0.101	0.106	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD19767	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.113	0.105	0.106	0.0850 to 0.115	113	70.0 to 130	7.34	20.0
BD19765	Total Organic Carbon	mg/L	0.132	1.00	10.0	11.6	12.6	23.6		86.2	80.0 to 120	8.26	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 09:55  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-42H

**Laboratory ID Number:** BD19765

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD19774	Fluoride	mg/L	0.000000	0.0200	2.00	2.29	0.0722	2.08	1.80 to 2.20	111	80.0 to 120	5.26	20.0
BD19765	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.06	0.107	1.94	1.80 to 2.20	103	90.0 to 110	0.00	15.0
BD19769	Solids, Dissolved	mg/L	0.0000	25.0			205	52.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-49H

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 10:43  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19766

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/30/23 13:08	11/2/23 16:38		1.015	0.423	mg/L	0.030000	0.1015	
* Calcium, Total	10/30/23 13:08	11/2/23 16:38		1.015	32.7	mg/L	0.070035	0.406	
* Iron, Total	10/30/23 13:08	11/2/23 16:38		1.015	0.217	mg/L	0.008120	0.0406	
* Lithium, Total	10/30/23 13:08	11/2/23 16:38		1.015	0.0668	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/30/23 13:08	11/2/23 16:38		1.015	9.70	mg/L	0.021315	0.406	
* Molybdenum, Total	10/30/23 13:08	11/2/23 16:38		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 16:38		1	5.80	mg/L			
* Silicon, Total	10/30/23 13:08	11/2/23 16:38		1.015	2.71	mg/L	0.02030	0.25375	
* Sodium, Total	10/30/23 13:08	11/2/23 16:38		1.015	18.2	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/30/23 12:08	11/2/23 18:10		1.015	0.421	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/30/23 12:08	11/2/23 18:10		1.015	32.6	mg/L	0.070035	0.406	
* Iron, Dissolved	10/30/23 12:08	11/2/23 18:10		1.015	0.207	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/30/23 12:08	11/2/23 18:10		1.015	0.0651	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/30/23 12:08	11/2/23 18:10		1.015	9.45	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/30/23 12:08	11/2/23 18:10		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/30/23 12:08	11/2/23 18:10		1	5.78	mg/L			
* Silicon, Dissolved	10/30/23 12:08	11/2/23 18:10		1.015	2.70	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/30/23 12:08	11/2/23 18:10		1.015	17.7	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/30/23 13:08	10/30/23 18:45		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/30/23 13:08	10/30/23 18:45		1.015	0.0756	mg/L	0.009135	0.05075	
* Arsenic, Total	10/30/23 13:08	10/30/23 18:45		1.015	0.000422	mg/L	0.000112	0.000203	
* Barium, Total	10/30/23 13:08	10/30/23 18:45		1.015	0.0511	mg/L	0.000508	0.001015	
* Beryllium, Total	10/30/23 13:08	10/30/23 18:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/30/23 13:08	10/30/23 18:45		1.015	0.000377	mg/L	0.000068	0.000203	
* Chromium, Total	10/30/23 13:08	10/30/23 18:45		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/30/23 13:08	10/30/23 18:45		1.015	0.00815	mg/L	0.000068	0.000203	
* Lead, Total	10/30/23 13:08	10/30/23 18:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/30/23 13:08	10/31/23 12:56		5.075	2.49	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-49H

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 10:43  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19766

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/30/23 13:08	10/30/23 18:45		1.015	5.32	mg/L	0.169505	0.5075	
* Selenium, Total	10/30/23 13:08	10/30/23 18:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/30/23 13:08	10/30/23 18:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/30/23 12:08	10/30/23 16:54		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/30/23 12:08	10/30/23 16:54		1.015	0.0623	mg/L	0.009135	0.05075	
* Arsenic, Dissolved	10/30/23 12:08	10/30/23 16:54		1.015	0.000447	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/30/23 12:08	10/30/23 16:54		1.015	0.0501	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/30/23 12:08	10/30/23 16:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/30/23 12:08	10/30/23 16:54		1.015	0.000380	mg/L	0.000068	0.000203	
* Chromium, Dissolved	10/30/23 12:08	10/30/23 16:54		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/30/23 12:08	10/30/23 16:54		1.015	0.00827	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/30/23 12:08	10/30/23 16:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/30/23 12:08	10/31/23 12:16		5.075	2.53	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/30/23 12:08	10/30/23 16:54		1.015	5.59	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/30/23 12:08	10/30/23 16:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/30/23 12:08	10/30/23 16:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 16:20		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 14:29	11/15/23 14:29		1	0.0730	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 15:13	10/26/23 15:13		1	0.308	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 09:12		1	4.49	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 09:12		1	29.8	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 13:17	10/27/23 13:37		1	231	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 09:12		1	29.8	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 09:12		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-49H

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 10:43  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19766

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/30/23 12:46	10/30/23 12:46		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 16:20	10/30/23 16:20		1	7.97	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 08:53	11/7/23 08:53		10	126	mg/L	6.0	20	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/25/23 10:40	10/25/23 10:40			358.60	uS/cm			FA
pH	10/25/23 10:40	10/25/23 10:40			5.60	SU			FA
Temperature	10/25/23 10:40	10/25/23 10:40			22.11	C			FA
Turbidity	10/25/23 10:40	10/25/23 10:40			2.08	NTU			FA
Sulfide	10/25/23 10:40	10/25/23 10:40			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 10:43  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-49H

**Laboratory ID Number:** BD19766

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19767	Aluminum, Dissolved	mg/L	-0.000178	0.0198	0.100	0.0950	0.0946	0.0939	0.0850 to 0.115	95.0	70.0 to 130	0.422	20.0
BD19767	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.0978	0.0970	0.0951	0.0850 to 0.115	97.8	70.0 to 130	0.821	20.0
BD19767	Antimony, Dissolved	mg/L	0.000272	0.00100	0.100	0.0982	0.0981	0.0931	0.0850 to 0.115	98.2	70.0 to 130	0.102	20.0
BD19767	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.102	0.100	0.0978	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD19767	Arsenic, Dissolved	mg/L	0.0000242	0.000200	0.100	0.0984	0.0998	0.0980	0.0850 to 0.115	98.4	70.0 to 130	1.41	20.0
BD19767	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0993	0.0973	0.0991	0.0850 to 0.115	99.3	70.0 to 130	2.03	20.0
BD19767	Barium, Dissolved	mg/L	0.0000446	0.00100	0.100	0.124	0.125	0.0980	0.0850 to 0.115	101	70.0 to 130	0.803	20.0
BD19767	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.131	0.130	0.0989	0.0850 to 0.115	106	70.0 to 130	0.766	20.0
BD19767	Beryllium, Dissolved	mg/L	0.0000017	0.000880	0.100	0.107	0.113	0.0985	0.0850 to 0.115	107	70.0 to 130	5.45	20.0
BD19767	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.0990	0.101	0.0960	0.0850 to 0.115	99.0	70.0 to 130	2.00	20.0
BD19767	Boron, Dissolved	mg/L	-0.000118	0.0650	1.00	1.01	1.02	0.951	0.850 to 1.15	94.4	70.0 to 130	0.985	20.0
BD19767	Boron, Total	mg/L	0.000015	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	95.3	70.0 to 130	0.976	20.0
BD19767	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0978	0.0952	0.0983	0.0850 to 0.115	97.7	70.0 to 130	2.69	20.0
BD19767	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0957	0.0976	0.0991	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0
BD19767	Calcium, Dissolved	mg/L	-0.0253	0.152	5.00	14.6	14.2	4.81	4.25 to 5.75	101	70.0 to 130	2.78	20.0
BD19767	Calcium, Total	mg/L	-0.0233	0.152	5.00	14.5	14.8	4.91	4.25 to 5.75	96.4	70.0 to 130	2.05	20.0
BD19774	Chloride	mg/L	0.00508	1.00	10.0	11.1	11.4	9.93	9.00 to 11.0	98.2	80.0 to 120	2.67	20.0
BD19767	Chromium, Dissolved	mg/L	-0.0000928	0.000440	0.100	0.0992	0.101	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.80	20.0
BD19767	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0987	0.0990	0.0980	0.0850 to 0.115	98.7	70.0 to 130	0.303	20.0
BD19767	Cobalt, Dissolved	mg/L	-0.0000269	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19767	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0991	0.101	0.0996	0.0850 to 0.115	99.0	70.0 to 130	1.90	20.0
BD19767	Iron, Dissolved	mg/L	-0.00107	0.0176	0.2	0.201	0.195	0.194	0.170 to 0.230	100	70.0 to 130	3.03	20.0
BD19767	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.199	0.202	0.173	0.170 to 0.230	99.5	70.0 to 130	1.50	20.0
BD19767	Lead, Dissolved	mg/L	-0.0000024	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	107	70.0 to 130	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 10:43  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-49H

**Laboratory ID Number:** BD19766

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19767	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.116	0.108	0.108	0.0850 to 0.115	116	70.0 to 130	7.14	20.0
BD19767	Lithium, Dissolved	mg/L	0.000276	0.0154	0.200	0.236	0.235	0.195	0.170 to 0.230	96.8	70.0 to 130	0.425	20.0
BD19767	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.239	0.242	0.196	0.170 to 0.230	97.8	70.0 to 130	1.25	20.0
BD19767	Magnesium, Dissolved	mg/L	-0.00166	0.0462	5.00	7.16	6.97	4.88	4.25 to 5.75	96.6	70.0 to 130	2.69	20.0
BD19767	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	7.25	7.32	4.82	4.25 to 5.75	97.0	70.0 to 130	0.961	20.0
BD19767	Manganese, Dissolved	mg/L	0.0000794	0.00033	0.100	0.184	0.185	0.0976	0.0850 to 0.115	95.0	70.0 to 130	0.542	20.0
BD19767	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.182	0.186	0.0958	0.0850 to 0.115	92.8	70.0 to 130	2.17	20.0
BD19770	Mercury, Total by CVAA	mg/L	0.000178	0.000500	0.004	0.00381	0.00387	0.00380	0.00340 to 0.00460	95.2	70.0 to 130	1.56	20.0
BD19767	Molybdenum, Dissolved	mg/L	0.000556	0.0100	0.2	0.196	0.196	0.198	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD19767	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.197	0.200	0.197	0.170 to 0.230	98.5	70.0 to 130	1.51	20.0
BD19767	Potassium, Dissolved	mg/L	0.163	0.367	10.0	12.1	11.9	10.3	8.50 to 11.5	98.4	70.0 to 130	1.67	20.0
BD19767	Potassium, Total	mg/L	-0.0126	0.367	10.0	11.9	12.0	9.77	8.50 to 11.5	97.7	70.0 to 130	0.837	20.0
BD19767	Selenium, Dissolved	mg/L	0.0000076	0.00100	0.100	0.0989	0.0991	0.103	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BD19767	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0986	0.0971	0.0977	0.0850 to 0.115	98.6	70.0 to 130	1.53	20.0
BD19767	Silicon, Dissolved	mg/L	0.000968	0.0440	1.00	4.52	4.53	0.989	0.850 to 1.15	103	70.0 to 130	0.221	20.0
BD19767	Silicon, Total	mg/L	-0.000714	0.0440	1.00	4.54	4.58	1.06	0.850 to 1.15	101	70.0 to 130	0.877	20.0
BD19767	Sodium, Dissolved	mg/L	0.00339	0.0880	5.00	9.11	8.99	4.88	4.25 to 5.75	97.0	70.0 to 130	1.33	20.0
BD19767	Sodium, Total	mg/L	0.00941	0.0880	5.00	9.19	9.30	4.96	4.25 to 5.75	96.2	70.0 to 130	1.19	20.0
BD19766	Sulfate	mg/L	-0.128	2.0	200	318	321	20.4	18.0 to 22.0	96.0	80.0 to 120	0.939	20.0
BD19767	Thallium, Dissolved	mg/L	-0.0000198	0.000147	0.100	0.103	0.101	0.106	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD19767	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.113	0.105	0.106	0.0850 to 0.115	113	70.0 to 130	7.34	20.0
BD19771	Total Organic Carbon	mg/L	0.120	1.00	10.0	15.9	16.4	23.4		99.0	80.0 to 120	3.10	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 10:43  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-49H

**Laboratory ID Number:** BD19766

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD19774	Fluoride	mg/L	0.000000	0.0200	2.00	2.29	0.0722	2.08	1.80 to 2.20	111	80.0 to 120	5.26	20.0
BD19775	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.95	0.053	1.82	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19769	Solids, Dissolved	mg/L	0.0000	25.0			205	52.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-48H

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 11:33  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19767

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ELH</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/30/23 13:08	11/2/23 16:41		1.015	0.0673	mg/L	0.030000	0.1015	J
* Calcium, Total	10/30/23 13:08	11/2/23 16:41		1.015	9.68	mg/L	0.070035	0.406	
* Iron, Total	10/30/23 13:08	11/2/23 16:41		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/30/23 13:08	11/2/23 16:41		1.015	0.0435	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/30/23 13:08	11/2/23 16:41		1.015	2.40	mg/L	0.021315	0.406	
* Molybdenum, Total	10/30/23 13:08	11/2/23 16:41		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 16:41		1	7.55	mg/L			
* Silicon, Total	10/30/23 13:08	11/2/23 16:41		1.015	3.53	mg/L	0.02030	0.25375	
* Sodium, Total	10/30/23 13:08	11/2/23 16:41		1.015	4.38	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ELH</b>						
* Boron, Dissolved	10/30/23 12:08	11/2/23 18:13		1.015	0.0662	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	10/30/23 12:08	11/2/23 18:13		1.015	9.57	mg/L	0.070035	0.406	
* Iron, Dissolved	10/30/23 12:08	11/2/23 18:13		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	10/30/23 12:08	11/2/23 18:13		1.015	0.0424	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/30/23 12:08	11/2/23 18:13		1.015	2.33	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/30/23 12:08	11/2/23 18:13		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/30/23 12:08	11/2/23 18:13		1	7.47	mg/L			
* Silicon, Dissolved	10/30/23 12:08	11/2/23 18:13		1.015	3.49	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/30/23 12:08	11/2/23 18:13		1.015	4.26	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/30/23 13:08	10/30/23 18:48		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/30/23 13:08	10/30/23 18:48		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/30/23 13:08	10/30/23 18:48		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	10/30/23 13:08	10/30/23 18:48		1.015	0.0248	mg/L	0.000508	0.001015	
* Beryllium, Total	10/30/23 13:08	10/30/23 18:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/30/23 13:08	10/30/23 18:48		1.015	0.0000783	mg/L	0.000068	0.000203	J
* Chromium, Total	10/30/23 13:08	10/30/23 18:48		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/30/23 13:08	10/30/23 18:48		1.015	0.000143	mg/L	0.000068	0.000203	J
* Lead, Total	10/30/23 13:08	10/30/23 18:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/30/23 13:08	10/30/23 18:48		1.015	0.0892	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-48H

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 11:33  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19767

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/30/23 13:08	10/30/23 18:48		1.015	2.13	mg/L	0.169505	0.5075	
* Selenium, Total	10/30/23 13:08	10/30/23 18:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/30/23 13:08	10/30/23 18:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/30/23 12:08	10/30/23 16:57		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/30/23 12:08	10/30/23 16:57		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/30/23 12:08	10/30/23 16:57		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/30/23 12:08	10/30/23 16:57		1.015	0.0229	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/30/23 12:08	10/30/23 16:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/30/23 12:08	10/30/23 16:57		1.015	0.0000992	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	10/30/23 12:08	10/30/23 16:57		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/30/23 12:08	10/30/23 16:57		1.015	0.000164	mg/L	0.000068	0.000203	J
* Lead, Dissolved	10/30/23 12:08	10/30/23 16:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/30/23 12:08	10/30/23 16:57		1.015	0.0890	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/30/23 12:08	10/30/23 16:57		1.015	2.26	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/30/23 12:08	10/30/23 16:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/30/23 12:08	10/30/23 16:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 16:23		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 15:39	11/15/23 15:39		1	Not Detected	mg/L	0.02	0.04	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 15:15	10/26/23 15:15		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 09:40		1	4.49	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 09:40		1	200	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 13:17	10/27/23 13:37		1	65.3	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 09:40		1	200	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 09:40		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-48H

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 11:33  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19767

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/30/23 13:01	10/30/23 13:01		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 16:21	10/30/23 16:21		1	3.12	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 09:06	11/7/23 09:06		1	27.9	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/25/23 11:30	10/25/23 11:30			100.91	uS/cm			FA
pH	10/25/23 11:30	10/25/23 11:30			5.76	SU			FA
Temperature	10/25/23 11:30	10/25/23 11:30			20.72	C			FA
Turbidity	10/25/23 11:30	10/25/23 11:30			0.9	NTU			FA
Sulfide	10/25/23 11:30	10/25/23 11:30			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 11:33  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-48H

**Laboratory ID Number:** BD19767

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD19767	Aluminum, Dissolved	mg/L	-0.000178	0.0198	0.100	0.0950	0.0946	0.0939	0.0850 to 0.115	95.0	70.0 to 130	0.422	20.0
BD19767	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.0978	0.0970	0.0951	0.0850 to 0.115	97.8	70.0 to 130	0.821	20.0
BD19767	Antimony, Dissolved	mg/L	0.000272	0.00100	0.100	0.0982	0.0981	0.0931	0.0850 to 0.115	98.2	70.0 to 130	0.102	20.0
BD19767	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.102	0.100	0.0978	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BD19767	Arsenic, Dissolved	mg/L	0.0000242	0.000200	0.100	0.0984	0.0998	0.0980	0.0850 to 0.115	98.4	70.0 to 130	1.41	20.0
BD19767	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0993	0.0973	0.0991	0.0850 to 0.115	99.3	70.0 to 130	2.03	20.0
BD19767	Barium, Dissolved	mg/L	0.0000446	0.00100	0.100	0.124	0.125	0.0980	0.0850 to 0.115	101	70.0 to 130	0.803	20.0
BD19767	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.131	0.130	0.0989	0.0850 to 0.115	106	70.0 to 130	0.766	20.0
BD19767	Beryllium, Dissolved	mg/L	0.0000017	0.000880	0.100	0.107	0.113	0.0985	0.0850 to 0.115	107	70.0 to 130	5.45	20.0
BD19767	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.0990	0.101	0.0960	0.0850 to 0.115	99.0	70.0 to 130	2.00	20.0
BD19767	Boron, Dissolved	mg/L	-0.000118	0.0650	1.00	1.01	1.02	0.951	0.850 to 1.15	94.4	70.0 to 130	0.985	20.0
BD19767	Boron, Total	mg/L	0.000015	0.0650	1.00	1.02	1.03	1.03	0.850 to 1.15	95.3	70.0 to 130	0.976	20.0
BD19767	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0978	0.0952	0.0983	0.0850 to 0.115	97.7	70.0 to 130	2.69	20.0
BD19767	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0957	0.0976	0.0991	0.0850 to 0.115	95.6	70.0 to 130	1.97	20.0
BD19767	Calcium, Dissolved	mg/L	-0.0253	0.152	5.00	14.6	14.2	4.81	4.25 to 5.75	101	70.0 to 130	2.78	20.0
BD19767	Calcium, Total	mg/L	-0.0233	0.152	5.00	14.5	14.8	4.91	4.25 to 5.75	96.4	70.0 to 130	2.05	20.0
BD19774	Chloride	mg/L	0.00508	1.00	10.0	11.1	11.4	9.93	9.00 to 11.0	98.2	80.0 to 120	2.67	20.0
BD19767	Chromium, Dissolved	mg/L	-0.0000928	0.000440	0.100	0.0992	0.101	0.101	0.0850 to 0.115	99.2	70.0 to 130	1.80	20.0
BD19767	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0987	0.0990	0.0980	0.0850 to 0.115	98.7	70.0 to 130	0.303	20.0
BD19767	Cobalt, Dissolved	mg/L	-0.0000269	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19767	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0991	0.101	0.0996	0.0850 to 0.115	99.0	70.0 to 130	1.90	20.0
BD19767	Iron, Dissolved	mg/L	-0.00107	0.0176	0.2	0.201	0.195	0.194	0.170 to 0.230	100	70.0 to 130	3.03	20.0
BD19767	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.199	0.202	0.173	0.170 to 0.230	99.5	70.0 to 130	1.50	20.0
BD19767	Lead, Dissolved	mg/L	-0.0000024	0.000147	0.100	0.107	0.106	0.109	0.0850 to 0.115	107	70.0 to 130	0.939	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 11:33  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-48H

**Laboratory ID Number:** BD19767

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19767	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.116	0.108	0.108	0.0850 to 0.115	116	70.0 to 130	7.14	20.0
BD19767	Lithium, Dissolved	mg/L	0.000276	0.0154	0.200	0.236	0.235	0.195	0.170 to 0.230	96.8	70.0 to 130	0.425	20.0
BD19767	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.239	0.242	0.196	0.170 to 0.230	97.8	70.0 to 130	1.25	20.0
BD19767	Magnesium, Dissolved	mg/L	-0.00166	0.0462	5.00	7.16	6.97	4.88	4.25 to 5.75	96.6	70.0 to 130	2.69	20.0
BD19767	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	7.25	7.32	4.82	4.25 to 5.75	97.0	70.0 to 130	0.961	20.0
BD19767	Manganese, Dissolved	mg/L	0.0000794	0.00033	0.100	0.184	0.185	0.0976	0.0850 to 0.115	95.0	70.0 to 130	0.542	20.0
BD19767	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.182	0.186	0.0958	0.0850 to 0.115	92.8	70.0 to 130	2.17	20.0
BD19770	Mercury, Total by CVAA	mg/L	0.000178	0.000500	0.004	0.00381	0.00387	0.00380	0.00340 to 0.00460	95.2	70.0 to 130	1.56	20.0
BD19767	Molybdenum, Dissolved	mg/L	0.000556	0.0100	0.2	0.196	0.196	0.198	0.170 to 0.230	98.0	70.0 to 130	0.00	20.0
BD19767	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.197	0.200	0.197	0.170 to 0.230	98.5	70.0 to 130	1.51	20.0
BD19767	Potassium, Dissolved	mg/L	0.163	0.367	10.0	12.1	11.9	10.3	8.50 to 11.5	98.4	70.0 to 130	1.67	20.0
BD19767	Potassium, Total	mg/L	-0.0126	0.367	10.0	11.9	12.0	9.77	8.50 to 11.5	97.7	70.0 to 130	0.837	20.0
BD19767	Selenium, Dissolved	mg/L	0.0000076	0.00100	0.100	0.0989	0.0991	0.103	0.0850 to 0.115	98.9	70.0 to 130	0.202	20.0
BD19767	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0986	0.0971	0.0977	0.0850 to 0.115	98.6	70.0 to 130	1.53	20.0
BD19767	Silicon, Dissolved	mg/L	0.000968	0.0440	1.00	4.52	4.53	0.989	0.850 to 1.15	103	70.0 to 130	0.221	20.0
BD19767	Silicon, Total	mg/L	-0.000714	0.0440	1.00	4.54	4.58	1.06	0.850 to 1.15	101	70.0 to 130	0.877	20.0
BD19767	Sodium, Dissolved	mg/L	0.00339	0.0880	5.00	9.11	8.99	4.88	4.25 to 5.75	97.0	70.0 to 130	1.33	20.0
BD19767	Sodium, Total	mg/L	0.00941	0.0880	5.00	9.19	9.30	4.96	4.25 to 5.75	96.2	70.0 to 130	1.19	20.0
BD19776	Sulfate	mg/L	-0.0875	2.0	20.0	19.8	20.3	20.5	18.0 to 22.0	99.0	80.0 to 120	2.49	20.0
BD19767	Thallium, Dissolved	mg/L	-0.0000198	0.000147	0.100	0.103	0.101	0.106	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD19767	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.113	0.105	0.106	0.0850 to 0.115	113	70.0 to 130	7.34	20.0
BD19771	Total Organic Carbon	mg/L	0.120	1.00	10.0	15.9	16.4	23.4		99.0	80.0 to 120	3.10	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 11:33  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-48H

**Laboratory ID Number:** BD19767

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD19774	Fluoride	mg/L	0.000000	0.0200	2.00	2.29	0.0722	2.08	1.80 to 2.20	111	80.0 to 120	5.26	20.0
BD19775	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.95	0.053	1.82	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19769	Solids, Dissolved	mg/L	0.0000	25.0			205	52.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-12

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 13:19  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19768

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/30/23 13:08	11/2/23 16:57		1.015	0.272	mg/L	0.030000	0.1015	
* Calcium, Total	10/30/23 13:08	11/2/23 16:57		1.015	33.1	mg/L	0.070035	0.406	
* Iron, Total	10/30/23 13:08	11/2/23 16:57		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/30/23 13:08	11/2/23 16:57		1.015	0.0953	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/30/23 13:08	11/2/23 16:57		1.015	9.29	mg/L	0.021315	0.406	
* Molybdenum, Total	10/30/23 13:08	11/2/23 16:57		1.015	0.0414	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 16:57		1	6.01	mg/L			
* Silicon, Total	10/30/23 13:08	11/2/23 16:57		1.015	2.81	mg/L	0.02030	0.25375	
* Sodium, Total	10/30/23 13:08	11/2/23 16:57		1.015	11.6	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/30/23 12:08	11/2/23 18:29		1.015	0.265	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/30/23 12:08	11/2/23 18:29		1.015	31.6	mg/L	0.070035	0.406	
* Iron, Dissolved	10/30/23 12:08	11/2/23 18:29		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	10/30/23 12:08	11/2/23 18:29		1.015	0.0928	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/30/23 12:08	11/2/23 18:29		1.015	8.94	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/30/23 12:08	11/2/23 18:29		1.015	0.0406	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/30/23 12:08	11/2/23 18:29		1	5.99	mg/L			
* Silicon, Dissolved	10/30/23 12:08	11/2/23 18:29		1.015	2.80	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/30/23 12:08	11/2/23 18:29		1.015	11.2	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/30/23 13:08	10/30/23 19:11		1.015	0.000815	mg/L	0.000710	0.001015	J
* Aluminum, Total	10/30/23 13:08	10/30/23 19:11		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/30/23 13:08	10/30/23 19:11		1.015	0.000274	mg/L	0.000112	0.000203	
* Barium, Total	10/30/23 13:08	10/30/23 19:11		1.015	0.0223	mg/L	0.000508	0.001015	
* Beryllium, Total	10/30/23 13:08	10/30/23 19:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/30/23 13:08	10/30/23 19:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/30/23 13:08	10/30/23 19:11		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/30/23 13:08	10/30/23 19:11		1.015	0.000578	mg/L	0.000068	0.000203	
* Lead, Total	10/30/23 13:08	10/30/23 19:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/30/23 13:08	10/30/23 19:11		1.015	0.994	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-12

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 13:19  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19768

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/30/23 13:08	10/30/23 19:11		1.015	4.38	mg/L	0.169505	0.5075	
* Selenium, Total	10/30/23 13:08	10/30/23 19:11		1.015	0.00203	mg/L	0.000508	0.001015	
* Thallium, Total	10/30/23 13:08	10/30/23 19:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/30/23 12:08	10/30/23 17:20		1.015	0.000738	mg/L	0.000710	0.001015	J
* Aluminum, Dissolved	10/30/23 12:08	10/30/23 17:20		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/30/23 12:08	10/30/23 17:20		1.015	0.000294	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/30/23 12:08	10/30/23 17:20		1.015	0.0216	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/30/23 12:08	10/30/23 17:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/30/23 12:08	10/30/23 17:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/30/23 12:08	10/30/23 17:20		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/30/23 12:08	10/30/23 17:20		1.015	0.000548	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/30/23 12:08	10/30/23 17:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/30/23 12:08	10/30/23 17:20		1.015	0.934	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/30/23 12:08	10/30/23 17:20		1.015	4.56	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/30/23 12:08	10/30/23 17:20		1.015	0.00231	mg/L	0.000508	0.001015	
* Thallium, Dissolved	10/30/23 12:08	10/30/23 17:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 16:25		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 16:03	11/15/23 16:03		1	0.165	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 15:17	10/26/23 15:17		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 12:43		1	4.41	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 12:43		1	70.1	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 13:17	10/27/23 13:37		1	189	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 12:43		1	69.9	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 12:43		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-12

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 13:19  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19768

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/30/23 13:16	10/30/23 13:16		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 16:22	10/30/23 16:22		1	4.69	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 09:20	11/7/23 09:20		3	74.3	mg/L	1.8	6	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/25/23 13:16	10/25/23 13:16			307.42	uS/cm			FA
pH	10/25/23 13:16	10/25/23 13:16			6.77	SU			FA
Temperature	10/25/23 13:16	10/25/23 13:16			22.55	C			FA
Turbidity	10/25/23 13:16	10/25/23 13:16			1.12	NTU			FA
Sulfide	10/25/23 13:16	10/25/23 13:16			0	mg/L			FA

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 13:19  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-12

**Laboratory ID Number:** BD19768

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19775	Aluminum, Dissolved	mg/L	-0.000178	0.0198	0.100	0.102	0.101	0.0939	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD19776	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.101	0.0958	0.0951	0.0850 to 0.115	101	70.0 to 130	5.28	20.0
BD19775	Antimony, Dissolved	mg/L	0.000272	0.00100	0.100	0.100	0.0981	0.0931	0.0850 to 0.115	100	70.0 to 130	1.92	20.0
BD19776	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.0952	0.0968	0.0978	0.0850 to 0.115	95.2	70.0 to 130	1.67	20.0
BD19775	Arsenic, Dissolved	mg/L	0.0000242	0.000200	0.100	0.0997	0.0965	0.0980	0.0850 to 0.115	97.8	70.0 to 130	3.26	20.0
BD19776	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0968	0.0977	0.0991	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19775	Barium, Dissolved	mg/L	0.0000446	0.00100	0.100	0.104	0.101	0.0980	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BD19776	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.103	0.0991	0.0989	0.0850 to 0.115	103	70.0 to 130	3.86	20.0
BD19775	Beryllium, Dissolved	mg/L	0.0000017	0.000880	0.100	0.113	0.110	0.0985	0.0850 to 0.115	113	70.0 to 130	2.69	20.0
BD19776	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.104	0.101	0.0960	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD19775	Boron, Dissolved	mg/L	-0.000118	0.0650	1.00	1.08	1.09	0.951	0.850 to 1.15	94.2	70.0 to 130	0.922	20.0
BD19776	Boron, Total	mg/L	0.000015	0.0650	1.00	0.946	0.949	1.03	0.850 to 1.15	94.6	70.0 to 130	0.317	20.0
BD19775	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.0994	0.0983	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BD19776	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0943	0.0987	0.0991	0.0850 to 0.115	94.3	70.0 to 130	4.56	20.0
BD19775	Calcium, Dissolved	mg/L	-0.0253	0.152	5.00	5.49	5.33	4.81	4.25 to 5.75	97.2	70.0 to 130	2.96	20.0
BD19776	Calcium, Total	mg/L	-0.0233	0.152	5.00	4.86	4.85	4.91	4.25 to 5.75	97.2	70.0 to 130	0.206	20.0
BD19774	Chloride	mg/L	0.00508	1.00	10.0	11.1	11.4	9.93	9.00 to 11.0	98.2	80.0 to 120	2.67	20.0
BD19775	Chromium, Dissolved	mg/L	-0.0000928	0.000440	0.100	0.0985	0.0974	0.101	0.0850 to 0.115	98.5	70.0 to 130	1.12	20.0
BD19776	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0960	0.0968	0.0980	0.0850 to 0.115	96.0	70.0 to 130	0.830	20.0
BD19775	Cobalt, Dissolved	mg/L	-0.0000269	0.000147	0.100	0.102	0.0993	0.102	0.0850 to 0.115	102	70.0 to 130	2.68	20.0
BD19776	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0976	0.0987	0.0996	0.0850 to 0.115	97.6	70.0 to 130	1.12	20.0
BD19775	Iron, Dissolved	mg/L	-0.00107	0.0176	0.2	0.193	0.192	0.194	0.170 to 0.230	96.5	70.0 to 130	0.519	20.0
BD19776	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.193	0.194	0.173	0.170 to 0.230	96.5	70.0 to 130	0.517	20.0
BD19775	Lead, Dissolved	mg/L	-0.0000024	0.000147	0.100	0.111	0.110	0.109	0.0850 to 0.115	111	70.0 to 130	0.905	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 13:19  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-12

**Laboratory ID Number:** BD19768

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19776	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.113	0.112	0.108	0.0850 to 0.115	113	70.0 to 130	0.889	20.0
BD19775	Lithium, Dissolved	mg/L	0.000276	0.0154	0.200	0.192	0.190	0.195	0.170 to 0.230	96.0	70.0 to 130	1.05	20.0
BD19776	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.192	0.193	0.196	0.170 to 0.230	96.0	70.0 to 130	0.519	20.0
BD19775	Magnesium, Dissolved	mg/L	-0.00166	0.0462	5.00	4.81	4.66	4.88	4.25 to 5.75	95.4	70.0 to 130	3.17	20.0
BD19776	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	4.81	4.84	4.82	4.25 to 5.75	96.2	70.0 to 130	0.622	20.0
BD19775	Manganese, Dissolved	mg/L	0.0000794	0.00033	0.100	0.0983	0.0961	0.0976	0.0850 to 0.115	96.9	70.0 to 130	2.26	20.0
BD19776	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.0946	0.0960	0.0958	0.0850 to 0.115	94.6	70.0 to 130	1.47	20.0
BD19770	Mercury, Total by CVAA	mg/L	0.000178	0.000500	0.004	0.00381	0.00387	0.00380	0.00340 to 0.00460	95.2	70.0 to 130	1.56	20.0
BD19775	Molybdenum, Dissolved	mg/L	0.000556	0.0100	0.2	0.196	0.194	0.198	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0
BD19776	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.196	0.198	0.197	0.170 to 0.230	98.0	70.0 to 130	1.02	20.0
BD19775	Potassium, Dissolved	mg/L	0.163	0.367	10.0	10.2	10.0	10.3	8.50 to 11.5	96.6	70.0 to 130	1.98	20.0
BD19776	Potassium, Total	mg/L	-0.0126	0.367	10.0	9.60	9.76	9.77	8.50 to 11.5	96.0	70.0 to 130	1.65	20.0
BD19775	Selenium, Dissolved	mg/L	0.0000076	0.00100	0.100	0.100	0.0976	0.103	0.0850 to 0.115	100	70.0 to 130	2.43	20.0
BD19776	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0989	0.0984	0.0977	0.0850 to 0.115	98.9	70.0 to 130	0.507	20.0
BD19775	Silicon, Dissolved	mg/L	0.000968	0.0440	1.00	6.37	6.39	0.989	0.850 to 1.15	99.0	70.0 to 130	0.313	20.0
BD19776	Silicon, Total	mg/L	-0.000714	0.0440	1.00	0.977	0.987	1.06	0.850 to 1.15	97.7	70.0 to 130	1.02	20.0
BD19775	Sodium, Dissolved	mg/L	0.00339	0.0880	5.00	89.6	79.8	4.88	4.25 to 5.75	290	70.0 to 130	11.6	20.0
BD19776	Sodium, Total	mg/L	0.00941	0.0880	5.00	4.82	4.82	4.96	4.25 to 5.75	95.3	70.0 to 130	0.00	20.0
BD19776	Sulfate	mg/L	-0.0875	2.0	20.0	19.8	20.3	20.5	18.0 to 22.0	99.0	80.0 to 120	2.49	20.0
BD19775	Thallium, Dissolved	mg/L	-0.0000198	0.000147	0.100	0.108	0.107	0.106	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19776	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.110	0.111	0.106	0.0850 to 0.115	110	70.0 to 130	0.905	20.0
BD19771	Total Organic Carbon	mg/L	0.120	1.00	10.0	15.9	16.4	23.4		99.0	80.0 to 120	3.10	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 13:19  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-12

**Laboratory ID Number:** BD19768

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD19774	Fluoride	mg/L	0.000000	0.0200	2.00	2.29	0.0722	2.08	1.80 to 2.20	111	80.0 to 120	5.26	20.0
BD19775	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.95	0.053	1.82	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19769	Solids, Dissolved	mg/L	0.0000	25.0			205	52.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-21

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 14:30  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19769

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/30/23 13:08	11/2/23 17:00		1.015	0.315	mg/L	0.030000	0.1015	
* Calcium, Total	10/30/23 13:08	11/2/23 17:00		1.015	30.9	mg/L	0.070035	0.406	
* Iron, Total	10/30/23 13:08	11/2/23 17:00		1.015	0.0431	mg/L	0.008120	0.0406	
* Lithium, Total	10/30/23 13:08	11/2/23 17:00		1.015	0.0599	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/30/23 13:08	11/2/23 17:00		1.015	8.89	mg/L	0.021315	0.406	
* Molybdenum, Total	10/30/23 13:08	11/2/23 17:00		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 17:00		1	7.40	mg/L			
* Silicon, Total	10/30/23 13:08	11/2/23 17:00		1.015	3.46	mg/L	0.02030	0.25375	
* Sodium, Total	10/30/23 13:08	11/2/23 17:00		1.015	17.3	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/30/23 12:08	11/2/23 18:32		1.015	0.310	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/30/23 12:08	11/2/23 18:32		1.015	30.2	mg/L	0.070035	0.406	
* Iron, Dissolved	10/30/23 12:08	11/2/23 18:32		1.015	0.0313	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	10/30/23 12:08	11/2/23 18:32		1.015	0.0597	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/30/23 12:08	11/2/23 18:32		1.015	8.73	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/30/23 12:08	11/2/23 18:32		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/30/23 12:08	11/2/23 18:32		1	7.36	mg/L			
* Silicon, Dissolved	10/30/23 12:08	11/2/23 18:32		1.015	3.44	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/30/23 12:08	11/2/23 18:32		1.015	17.4	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/30/23 13:08	10/30/23 19:15		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/30/23 13:08	10/30/23 19:15		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/30/23 13:08	10/30/23 19:15		1.015	0.000132	mg/L	0.000112	0.000203	J
* Barium, Total	10/30/23 13:08	10/30/23 19:15		1.015	0.0507	mg/L	0.000508	0.001015	
* Beryllium, Total	10/30/23 13:08	10/30/23 19:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/30/23 13:08	10/30/23 19:15		1.015	0.0000980	mg/L	0.000068	0.000203	J
* Chromium, Total	10/30/23 13:08	10/30/23 19:15		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/30/23 13:08	10/30/23 19:15		1.015	0.00285	mg/L	0.000068	0.000203	
* Lead, Total	10/30/23 13:08	10/30/23 19:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/30/23 13:08	10/31/23 13:00		5.075	2.06	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-21

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 14:30  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19769

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/30/23 13:08	10/30/23 19:15		1.015	4.63	mg/L	0.169505	0.5075	
* Selenium, Total	10/30/23 13:08	10/30/23 19:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/30/23 13:08	10/30/23 19:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/30/23 12:08	10/30/23 17:23		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/30/23 12:08	10/30/23 17:23		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/30/23 12:08	10/30/23 17:23		1.015	0.000117	mg/L	0.000112	0.000203	J
* Barium, Dissolved	10/30/23 12:08	10/30/23 17:23		1.015	0.0498	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/30/23 12:08	10/30/23 17:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/30/23 12:08	10/30/23 17:23		1.015	0.0000972	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	10/30/23 12:08	10/30/23 17:23		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/30/23 12:08	10/30/23 17:23		1.015	0.00264	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/30/23 12:08	10/30/23 17:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/30/23 12:08	10/31/23 12:19		5.075	2.02	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/30/23 12:08	10/30/23 17:23		1.015	4.70	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/30/23 12:08	10/30/23 17:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/30/23 12:08	10/30/23 17:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 16:27		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 16:26	11/15/23 16:26		1	0.0861	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 15:19	10/26/23 15:19		1	0.839	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 14:25		1	4.45	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 14:25		1	76.9	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/26/23 13:17	10/27/23 13:37		1	205	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 14:25		1	76.9	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 14:25		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-21

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 14:30  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19769

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/30/23 13:30	10/30/23 13:30		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 16:23	10/30/23 16:23		1	6.93	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 09:21	11/7/23 09:21		3	72.4	mg/L	1.8	6	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/25/23 14:27	10/25/23 14:27			323.53	uS/cm			FA
pH	10/25/23 14:27	10/25/23 14:27			6.01	SU			FA
Temperature	10/25/23 14:27	10/25/23 14:27			22.10	C			FA
Turbidity	10/25/23 14:27	10/25/23 14:27			0.9	NTU			FA
Sulfide	10/25/23 14:27	10/25/23 14:27			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 14:30  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-21

**Laboratory ID Number:** BD19769

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19775	Aluminum, Dissolved	mg/L	-0.000178	0.0198	0.100	0.102	0.101	0.0939	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD19776	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.101	0.0958	0.0951	0.0850 to 0.115	101	70.0 to 130	5.28	20.0
BD19775	Antimony, Dissolved	mg/L	0.000272	0.00100	0.100	0.100	0.0981	0.0931	0.0850 to 0.115	100	70.0 to 130	1.92	20.0
BD19776	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.0952	0.0968	0.0978	0.0850 to 0.115	95.2	70.0 to 130	1.67	20.0
BD19775	Arsenic, Dissolved	mg/L	0.0000242	0.000200	0.100	0.0997	0.0965	0.0980	0.0850 to 0.115	97.8	70.0 to 130	3.26	20.0
BD19776	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0968	0.0977	0.0991	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19775	Barium, Dissolved	mg/L	0.0000446	0.00100	0.100	0.104	0.101	0.0980	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BD19776	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.103	0.0991	0.0989	0.0850 to 0.115	103	70.0 to 130	3.86	20.0
BD19775	Beryllium, Dissolved	mg/L	0.0000017	0.000880	0.100	0.113	0.110	0.0985	0.0850 to 0.115	113	70.0 to 130	2.69	20.0
BD19776	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.104	0.101	0.0960	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD19775	Boron, Dissolved	mg/L	-0.000118	0.0650	1.00	1.08	1.09	0.951	0.850 to 1.15	94.2	70.0 to 130	0.922	20.0
BD19776	Boron, Total	mg/L	0.000015	0.0650	1.00	0.946	0.949	1.03	0.850 to 1.15	94.6	70.0 to 130	0.317	20.0
BD19775	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.0994	0.0983	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BD19776	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0943	0.0987	0.0991	0.0850 to 0.115	94.3	70.0 to 130	4.56	20.0
BD19775	Calcium, Dissolved	mg/L	-0.0253	0.152	5.00	5.49	5.33	4.81	4.25 to 5.75	97.2	70.0 to 130	2.96	20.0
BD19776	Calcium, Total	mg/L	-0.0233	0.152	5.00	4.86	4.85	4.91	4.25 to 5.75	97.2	70.0 to 130	0.206	20.0
BD19774	Chloride	mg/L	0.00508	1.00	10.0	11.1	11.4	9.93	9.00 to 11.0	98.2	80.0 to 120	2.67	20.0
BD19775	Chromium, Dissolved	mg/L	-0.0000928	0.000440	0.100	0.0985	0.0974	0.101	0.0850 to 0.115	98.5	70.0 to 130	1.12	20.0
BD19776	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0960	0.0968	0.0980	0.0850 to 0.115	96.0	70.0 to 130	0.830	20.0
BD19775	Cobalt, Dissolved	mg/L	-0.0000269	0.000147	0.100	0.102	0.0993	0.102	0.0850 to 0.115	102	70.0 to 130	2.68	20.0
BD19776	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0976	0.0987	0.0996	0.0850 to 0.115	97.6	70.0 to 130	1.12	20.0
BD19775	Iron, Dissolved	mg/L	-0.00107	0.0176	0.2	0.193	0.192	0.194	0.170 to 0.230	96.5	70.0 to 130	0.519	20.0
BD19776	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.193	0.194	0.173	0.170 to 0.230	96.5	70.0 to 130	0.517	20.0
BD19775	Lead, Dissolved	mg/L	-0.0000024	0.000147	0.100	0.111	0.110	0.109	0.0850 to 0.115	111	70.0 to 130	0.905	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 14:30  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-21

**Laboratory ID Number:** BD19769

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19776	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.113	0.112	0.108	0.0850 to 0.115	113	70.0 to 130	0.889	20.0
BD19775	Lithium, Dissolved	mg/L	0.000276	0.0154	0.200	0.192	0.190	0.195	0.170 to 0.230	96.0	70.0 to 130	1.05	20.0
BD19776	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.192	0.193	0.196	0.170 to 0.230	96.0	70.0 to 130	0.519	20.0
BD19775	Magnesium, Dissolved	mg/L	-0.00166	0.0462	5.00	4.81	4.66	4.88	4.25 to 5.75	95.4	70.0 to 130	3.17	20.0
BD19776	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	4.81	4.84	4.82	4.25 to 5.75	96.2	70.0 to 130	0.622	20.0
BD19775	Manganese, Dissolved	mg/L	0.0000794	0.00033	0.100	0.0983	0.0961	0.0976	0.0850 to 0.115	96.9	70.0 to 130	2.26	20.0
BD19776	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.0946	0.0960	0.0958	0.0850 to 0.115	94.6	70.0 to 130	1.47	20.0
BD19770	Mercury, Total by CVAA	mg/L	0.000178	0.000500	0.004	0.00381	0.00387	0.00380	0.00340 to 0.00460	95.2	70.0 to 130	1.56	20.0
BD19775	Molybdenum, Dissolved	mg/L	0.000556	0.0100	0.2	0.196	0.194	0.198	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0
BD19776	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.196	0.198	0.197	0.170 to 0.230	98.0	70.0 to 130	1.02	20.0
BD19775	Potassium, Dissolved	mg/L	0.163	0.367	10.0	10.2	10.0	10.3	8.50 to 11.5	96.6	70.0 to 130	1.98	20.0
BD19776	Potassium, Total	mg/L	-0.0126	0.367	10.0	9.60	9.76	9.77	8.50 to 11.5	96.0	70.0 to 130	1.65	20.0
BD19775	Selenium, Dissolved	mg/L	0.0000076	0.00100	0.100	0.100	0.0976	0.103	0.0850 to 0.115	100	70.0 to 130	2.43	20.0
BD19776	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0989	0.0984	0.0977	0.0850 to 0.115	98.9	70.0 to 130	0.507	20.0
BD19775	Silicon, Dissolved	mg/L	0.000968	0.0440	1.00	6.37	6.39	0.989	0.850 to 1.15	99.0	70.0 to 130	0.313	20.0
BD19776	Silicon, Total	mg/L	-0.000714	0.0440	1.00	0.977	0.987	1.06	0.850 to 1.15	97.7	70.0 to 130	1.02	20.0
BD19775	Sodium, Dissolved	mg/L	0.00339	0.0880	5.00	89.6	79.8	4.88	4.25 to 5.75	290	70.0 to 130	11.6	20.0
BD19776	Sodium, Total	mg/L	0.00941	0.0880	5.00	4.82	4.82	4.96	4.25 to 5.75	95.3	70.0 to 130	0.00	20.0
BD19776	Sulfate	mg/L	-0.0875	2.0	20.0	19.8	20.3	20.5	18.0 to 22.0	99.0	80.0 to 120	2.49	20.0
BD19775	Thallium, Dissolved	mg/L	-0.0000198	0.000147	0.100	0.108	0.107	0.106	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19776	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.110	0.111	0.106	0.0850 to 0.115	110	70.0 to 130	0.905	20.0
BD19771	Total Organic Carbon	mg/L	0.120	1.00	10.0	15.9	16.4	23.4		99.0	80.0 to 120	3.10	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 14:30  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-21

**Laboratory ID Number:** BD19769

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD19774	Fluoride	mg/L	0.000000	0.0200	2.00	2.29	0.0722	2.08	1.80 to 2.20	111	80.0 to 120	5.26	20.0
BD19775	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.95	0.053	1.82	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19769	Solids, Dissolved	mg/L	0.0000	25.0			205	52.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-13

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 16:05  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19770

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/30/23 13:08	11/2/23 17:03		1.015	0.465	mg/L	0.030000	0.1015	
* Calcium, Total	10/30/23 13:08	11/2/23 17:03		1.015	24.3	mg/L	0.070035	0.406	
* Iron, Total	10/30/23 13:08	11/2/23 17:03		1.015	1.47	mg/L	0.008120	0.0406	
* Lithium, Total	10/30/23 13:08	11/2/23 17:03		1.015	0.150	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/30/23 13:08	11/2/23 17:03		1.015	5.19	mg/L	0.021315	0.406	
* Molybdenum, Total	10/30/23 13:08	11/2/23 17:03		1.015	0.0269	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 17:03		1	7.23	mg/L			
* Silicon, Total	10/30/23 13:08	11/2/23 17:03		1.015	3.38	mg/L	0.02030	0.25375	
* Sodium, Total	10/30/23 13:08	11/2/23 17:03		1.015	30.3	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/30/23 12:08	11/2/23 18:35		1.015	0.459	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/30/23 12:08	11/2/23 18:35		1.015	24.1	mg/L	0.070035	0.406	
* Iron, Dissolved	10/30/23 12:08	11/2/23 18:35		1.015	1.36	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/30/23 12:08	11/2/23 18:35		1.015	0.148	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/30/23 12:08	11/2/23 18:35		1.015	5.16	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/30/23 12:08	11/2/23 18:35		1.015	0.0267	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/30/23 12:08	11/2/23 18:35		1	7.19	mg/L			
* Silicon, Dissolved	10/30/23 12:08	11/2/23 18:35		1.015	3.36	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/30/23 12:08	11/2/23 18:35		1.015	29.6	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/30/23 13:08	10/30/23 19:18		1.015	0.00161	mg/L	0.000710	0.001015	
* Aluminum, Total	10/30/23 13:08	10/30/23 19:18		1.015	0.0124	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/30/23 13:08	10/30/23 19:18		1.015	0.0195	mg/L	0.000112	0.000203	
* Barium, Total	10/30/23 13:08	10/30/23 19:18		1.015	0.0752	mg/L	0.000508	0.001015	
* Beryllium, Total	10/30/23 13:08	10/30/23 19:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/30/23 13:08	10/30/23 19:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/30/23 13:08	10/30/23 19:18		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/30/23 13:08	10/30/23 19:18		1.015	0.00180	mg/L	0.000068	0.000203	
* Lead, Total	10/30/23 13:08	10/30/23 19:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/30/23 13:08	10/30/23 19:18		1.015	0.504	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-13

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 16:05  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19770

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/30/23 13:08	10/30/23 19:18		1.015	4.53	mg/L	0.169505	0.5075	
* Selenium, Total	10/30/23 13:08	10/30/23 19:18		1.015	0.00397	mg/L	0.000508	0.001015	
* Thallium, Total	10/30/23 13:08	10/30/23 19:18		1.015	0.000451	mg/L	0.000068	0.000203	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/30/23 12:08	10/30/23 17:27		1.015	0.00149	mg/L	0.000710	0.001015	
* Aluminum, Dissolved	10/30/23 12:08	10/30/23 17:27		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/30/23 12:08	10/30/23 17:27		1.015	0.0186	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/30/23 12:08	10/30/23 17:27		1.015	0.0756	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/30/23 12:08	10/30/23 17:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/30/23 12:08	10/30/23 17:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/30/23 12:08	10/30/23 17:27		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/30/23 12:08	10/30/23 17:27		1.015	0.00171	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/30/23 12:08	10/30/23 17:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/30/23 12:08	10/30/23 17:27		1.015	0.505	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/30/23 12:08	10/30/23 17:27		1.015	4.67	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/30/23 12:08	10/30/23 17:27		1.015	0.00424	mg/L	0.000508	0.001015	
* Thallium, Dissolved	10/30/23 12:08	10/30/23 17:27		1.015	0.000466	mg/L	0.000068	0.000203	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 16:30		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 16:50	11/15/23 16:50		1	0.149	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 15:21	10/26/23 15:21		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 14:25		1	4.42	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 14:25		1	77.3	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: JS</b>							
* Solids, Dissolved	10/31/23 12:10	11/2/23 08:31		1	189	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 14:25		1	77.2	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 14:25		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-13

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 16:05  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:44

**Laboratory ID Number:** BD19770

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/30/23 13:46	10/30/23 13:46		1	2.55	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 16:24	10/30/23 16:24		1	11.4	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 09:22	11/7/23 09:22		3	64.8	mg/L	1.8	6	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/25/23 16:02	10/25/23 16:02			319.81	uS/cm			FA
pH	10/25/23 16:02	10/25/23 16:02			6.47	SU			FA
Temperature	10/25/23 16:02	10/25/23 16:02			28.15	C			FA
Turbidity	10/25/23 16:02	10/25/23 16:02			4.14	NTU			FA
Sulfide	10/25/23 16:02	10/25/23 16:02			0	mg/L			FA

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 16:05  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-13

**Laboratory ID Number:** BD19770

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19775	Aluminum, Dissolved	mg/L	-0.000178	0.0198	0.100	0.102	0.101	0.0939	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD19776	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.101	0.0958	0.0951	0.0850 to 0.115	101	70.0 to 130	5.28	20.0
BD19775	Antimony, Dissolved	mg/L	0.000272	0.00100	0.100	0.100	0.0981	0.0931	0.0850 to 0.115	100	70.0 to 130	1.92	20.0
BD19776	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.0952	0.0968	0.0978	0.0850 to 0.115	95.2	70.0 to 130	1.67	20.0
BD19775	Arsenic, Dissolved	mg/L	0.0000242	0.000200	0.100	0.0997	0.0965	0.0980	0.0850 to 0.115	97.8	70.0 to 130	3.26	20.0
BD19776	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0968	0.0977	0.0991	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19775	Barium, Dissolved	mg/L	0.0000446	0.00100	0.100	0.104	0.101	0.0980	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BD19776	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.103	0.0991	0.0989	0.0850 to 0.115	103	70.0 to 130	3.86	20.0
BD19775	Beryllium, Dissolved	mg/L	0.0000017	0.000880	0.100	0.113	0.110	0.0985	0.0850 to 0.115	113	70.0 to 130	2.69	20.0
BD19776	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.104	0.101	0.0960	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD19775	Boron, Dissolved	mg/L	-0.000118	0.0650	1.00	1.08	1.09	0.951	0.850 to 1.15	94.2	70.0 to 130	0.922	20.0
BD19776	Boron, Total	mg/L	0.000015	0.0650	1.00	0.946	0.949	1.03	0.850 to 1.15	94.6	70.0 to 130	0.317	20.0
BD19775	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.0994	0.0983	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BD19776	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0943	0.0987	0.0991	0.0850 to 0.115	94.3	70.0 to 130	4.56	20.0
BD19775	Calcium, Dissolved	mg/L	-0.0253	0.152	5.00	5.49	5.33	4.81	4.25 to 5.75	97.2	70.0 to 130	2.96	20.0
BD19776	Calcium, Total	mg/L	-0.0233	0.152	5.00	4.86	4.85	4.91	4.25 to 5.75	97.2	70.0 to 130	0.206	20.0
BD19774	Chloride	mg/L	0.00508	1.00	10.0	11.1	11.4	9.93	9.00 to 11.0	98.2	80.0 to 120	2.67	20.0
BD19775	Chromium, Dissolved	mg/L	-0.0000928	0.000440	0.100	0.0985	0.0974	0.101	0.0850 to 0.115	98.5	70.0 to 130	1.12	20.0
BD19776	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0960	0.0968	0.0980	0.0850 to 0.115	96.0	70.0 to 130	0.830	20.0
BD19775	Cobalt, Dissolved	mg/L	-0.0000269	0.000147	0.100	0.102	0.0993	0.102	0.0850 to 0.115	102	70.0 to 130	2.68	20.0
BD19776	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0976	0.0987	0.0996	0.0850 to 0.115	97.6	70.0 to 130	1.12	20.0
BD19775	Iron, Dissolved	mg/L	-0.00107	0.0176	0.2	0.193	0.192	0.194	0.170 to 0.230	96.5	70.0 to 130	0.519	20.0
BD19776	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.193	0.194	0.173	0.170 to 0.230	96.5	70.0 to 130	0.517	20.0
BD19775	Lead, Dissolved	mg/L	-0.0000024	0.000147	0.100	0.111	0.110	0.109	0.0850 to 0.115	111	70.0 to 130	0.905	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 16:05  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-13

**Laboratory ID Number:** BD19770

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19776	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.113	0.112	0.108	0.0850 to 0.115	113	70.0 to 130	0.889	20.0
BD19775	Lithium, Dissolved	mg/L	0.000276	0.0154	0.200	0.192	0.190	0.195	0.170 to 0.230	96.0	70.0 to 130	1.05	20.0
BD19776	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.192	0.193	0.196	0.170 to 0.230	96.0	70.0 to 130	0.519	20.0
BD19775	Magnesium, Dissolved	mg/L	-0.00166	0.0462	5.00	4.81	4.66	4.88	4.25 to 5.75	95.4	70.0 to 130	3.17	20.0
BD19776	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	4.81	4.84	4.82	4.25 to 5.75	96.2	70.0 to 130	0.622	20.0
BD19775	Manganese, Dissolved	mg/L	0.0000794	0.00033	0.100	0.0983	0.0961	0.0976	0.0850 to 0.115	96.9	70.0 to 130	2.26	20.0
BD19776	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.0946	0.0960	0.0958	0.0850 to 0.115	94.6	70.0 to 130	1.47	20.0
BD19770	Mercury, Total by CVAA	mg/L	0.000178	0.000500	0.004	0.00381	0.00387	0.00380	0.00340 to 0.00460	95.2	70.0 to 130	1.56	20.0
BD19775	Molybdenum, Dissolved	mg/L	0.000556	0.0100	0.2	0.196	0.194	0.198	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0
BD19776	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.196	0.198	0.197	0.170 to 0.230	98.0	70.0 to 130	1.02	20.0
BD19775	Potassium, Dissolved	mg/L	0.163	0.367	10.0	10.2	10.0	10.3	8.50 to 11.5	96.6	70.0 to 130	1.98	20.0
BD19776	Potassium, Total	mg/L	-0.0126	0.367	10.0	9.60	9.76	9.77	8.50 to 11.5	96.0	70.0 to 130	1.65	20.0
BD19775	Selenium, Dissolved	mg/L	0.0000076	0.00100	0.100	0.100	0.0976	0.103	0.0850 to 0.115	100	70.0 to 130	2.43	20.0
BD19776	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0989	0.0984	0.0977	0.0850 to 0.115	98.9	70.0 to 130	0.507	20.0
BD19775	Silicon, Dissolved	mg/L	0.000968	0.0440	1.00	6.37	6.39	0.989	0.850 to 1.15	99.0	70.0 to 130	0.313	20.0
BD19776	Silicon, Total	mg/L	-0.000714	0.0440	1.00	0.977	0.987	1.06	0.850 to 1.15	97.7	70.0 to 130	1.02	20.0
BD19775	Sodium, Dissolved	mg/L	0.00339	0.0880	5.00	89.6	79.8	4.88	4.25 to 5.75	290	70.0 to 130	11.6	20.0
BD19776	Sodium, Total	mg/L	0.00941	0.0880	5.00	4.82	4.82	4.96	4.25 to 5.75	95.3	70.0 to 130	0.00	20.0
BD19776	Sulfate	mg/L	-0.0875	2.0	20.0	19.8	20.3	20.5	18.0 to 22.0	99.0	80.0 to 120	2.49	20.0
BD19775	Thallium, Dissolved	mg/L	-0.0000198	0.000147	0.100	0.108	0.107	0.106	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19776	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.110	0.111	0.106	0.0850 to 0.115	110	70.0 to 130	0.905	20.0
BD19771	Total Organic Carbon	mg/L	0.120	1.00	10.0	15.9	16.4	23.4		99.0	80.0 to 120	3.10	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 16:05  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:44

**Description:** Greene County Ash Pond - MW-13

**Laboratory ID Number:** BD19770

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD19774	Fluoride	mg/L	0.000000	0.0200	2.00	2.29	0.0722	2.08	1.80 to 2.20	111	80.0 to 120	5.26	20.0
BD19775	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.95	0.053	1.82	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19775	Solids, Dissolved	mg/L	0.0000	25.0			189	51.0	40.0 to 60.0			2.14	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-37H

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 09:25  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:45

**Laboratory ID Number:** BD19771

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/30/23 13:08	11/2/23 17:06		1.015	0.175	mg/L	0.030000	0.1015	
* Calcium, Total	10/30/23 13:08	11/14/23 13:44		10.15	155	mg/L	0.70035	4.06	
* Iron, Total	10/30/23 13:08	11/14/23 13:47		101.5	72.5	mg/L	0.8120	4.06	
* Lithium, Total	10/30/23 13:08	11/2/23 17:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/30/23 13:08	11/2/23 17:06		1.015	23.5	mg/L	0.021315	0.406	
* Molybdenum, Total	10/30/23 13:08	11/2/23 17:06		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 17:06		1	19.6	mg/L			
* Silicon, Total	10/30/23 13:08	11/2/23 17:06		1.015	9.18	mg/L	0.02030	0.25375	
* Sodium, Total	10/30/23 13:08	11/2/23 17:06		1.015	28.6	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>							
* Boron, Dissolved	10/30/23 12:08	11/2/23 18:38		1.015	0.168	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/30/23 12:08	11/14/23 12:50		10.15	171	mg/L	0.70035	4.06	
* Iron, Dissolved	10/30/23 12:08	11/14/23 12:53		101.5	60.8	mg/L	0.8120	4.06	
* Lithium, Dissolved	10/30/23 12:08	11/2/23 18:38		1.015	0.00834	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	10/30/23 12:08	11/2/23 18:38		1.015	23.4	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/30/23 12:08	11/2/23 18:38		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/30/23 12:08	11/2/23 18:38		1	17.5	mg/L			
* Silicon, Dissolved	10/30/23 12:08	11/2/23 18:38		1.015	8.20	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/30/23 12:08	11/2/23 18:38		1.015	25.3	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/30/23 13:08	10/30/23 19:22		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/30/23 13:08	10/30/23 19:22		1.015	0.0141	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/30/23 13:08	10/30/23 19:22		1.015	0.00561	mg/L	0.000112	0.000203	
* Barium, Total	10/30/23 13:08	10/30/23 19:22		1.015	0.0854	mg/L	0.000508	0.001015	
* Beryllium, Total	10/30/23 13:08	10/30/23 19:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/30/23 13:08	10/30/23 19:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/30/23 13:08	10/30/23 19:22		1.015	0.000425	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/30/23 13:08	10/30/23 19:22		1.015	0.00966	mg/L	0.000068	0.000203	
* Lead, Total	10/30/23 13:08	10/30/23 19:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/30/23 13:08	10/31/23 13:04		5.075	4.38	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-37H

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 09:25  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:45

**Laboratory ID Number:** BD19771

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/30/23 13:08	10/30/23 19:22		1.015	2.73	mg/L	0.169505	0.5075	
* Selenium, Total	10/30/23 13:08	10/30/23 19:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/30/23 13:08	10/30/23 19:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/30/23 12:08	10/30/23 17:31		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/30/23 12:08	10/30/23 17:31		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/30/23 12:08	10/30/23 17:31		1.015	0.00591	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/30/23 12:08	10/30/23 17:31		1.015	0.0517	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/30/23 12:08	10/30/23 17:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/30/23 12:08	10/30/23 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/30/23 12:08	10/30/23 17:31		1.015	0.000238	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	10/30/23 12:08	10/30/23 17:31		1.015	0.0159	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/30/23 12:08	10/30/23 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/30/23 12:08	10/31/23 12:23		5.075	4.43	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/30/23 12:08	10/30/23 17:31		1.015	2.54	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/30/23 12:08	10/30/23 17:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/30/23 12:08	10/30/23 17:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 16:42		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 17:13	11/15/23 17:13		1	0.134	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 15:23	10/26/23 15:23		1	0.284	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 09:04		1	4.52	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 09:04		1	183	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: JS</b>							
* Solids, Dissolved	10/31/23 12:10	11/2/23 08:31		1	1560	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 09:04		1	183	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 09:04		1	Not Detected	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-37H

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 09:25  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:45

**Laboratory ID Number:** BD19771

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/30/23 14:03	10/30/23 14:03		1	6.00	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 16:26	10/30/23 16:26		1	12.3	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 09:24	11/7/23 09:24		25	400	mg/L	15.0	50	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	10/25/23 09:21	10/25/23 09:21			989.32	uS/cm			FA
pH	10/25/23 09:21	10/25/23 09:21			6.35	SU			FA
Temperature	10/25/23 09:21	10/25/23 09:21			21.55	C			FA
Turbidity	10/25/23 09:21	10/25/23 09:21			2.16	NTU			FA
Sulfide	10/25/23 09:21	10/25/23 09:21			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 09:25  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:45

**Description:** Greene County Ash Pond - MW-37H

**Laboratory ID Number:** BD19771

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19775	Aluminum, Dissolved	mg/L	-0.000178	0.0198	0.100	0.102	0.101	0.0939	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD19776	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.101	0.0958	0.0951	0.0850 to 0.115	101	70.0 to 130	5.28	20.0
BD19775	Antimony, Dissolved	mg/L	0.000272	0.00100	0.100	0.100	0.0981	0.0931	0.0850 to 0.115	100	70.0 to 130	1.92	20.0
BD19776	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.0952	0.0968	0.0978	0.0850 to 0.115	95.2	70.0 to 130	1.67	20.0
BD19775	Arsenic, Dissolved	mg/L	0.0000242	0.000200	0.100	0.0997	0.0965	0.0980	0.0850 to 0.115	97.8	70.0 to 130	3.26	20.0
BD19776	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0968	0.0977	0.0991	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19775	Barium, Dissolved	mg/L	0.0000446	0.00100	0.100	0.104	0.101	0.0980	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BD19776	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.103	0.0991	0.0989	0.0850 to 0.115	103	70.0 to 130	3.86	20.0
BD19775	Beryllium, Dissolved	mg/L	0.0000017	0.000880	0.100	0.113	0.110	0.0985	0.0850 to 0.115	113	70.0 to 130	2.69	20.0
BD19776	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.104	0.101	0.0960	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD19775	Boron, Dissolved	mg/L	-0.000118	0.0650	1.00	1.08	1.09	0.951	0.850 to 1.15	94.2	70.0 to 130	0.922	20.0
BD19776	Boron, Total	mg/L	0.000015	0.0650	1.00	0.946	0.949	1.03	0.850 to 1.15	94.6	70.0 to 130	0.317	20.0
BD19775	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.0994	0.0983	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BD19776	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0943	0.0987	0.0991	0.0850 to 0.115	94.3	70.0 to 130	4.56	20.0
BD19775	Calcium, Dissolved	mg/L	-0.0253	0.152	5.00	5.49	5.33	4.81	4.25 to 5.75	97.2	70.0 to 130	2.96	20.0
BD19776	Calcium, Total	mg/L	-0.0233	0.152	5.00	4.86	4.85	4.91	4.25 to 5.75	97.2	70.0 to 130	0.206	20.0
BD19774	Chloride	mg/L	0.00508	1.00	10.0	11.1	11.4	9.93	9.00 to 11.0	98.2	80.0 to 120	2.67	20.0
BD19775	Chromium, Dissolved	mg/L	-0.0000928	0.000440	0.100	0.0985	0.0974	0.101	0.0850 to 0.115	98.5	70.0 to 130	1.12	20.0
BD19776	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0960	0.0968	0.0980	0.0850 to 0.115	96.0	70.0 to 130	0.830	20.0
BD19775	Cobalt, Dissolved	mg/L	-0.0000269	0.000147	0.100	0.102	0.0993	0.102	0.0850 to 0.115	102	70.0 to 130	2.68	20.0
BD19776	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0976	0.0987	0.0996	0.0850 to 0.115	97.6	70.0 to 130	1.12	20.0
BD19775	Iron, Dissolved	mg/L	-0.00107	0.0176	0.2	0.193	0.192	0.194	0.170 to 0.230	96.5	70.0 to 130	0.519	20.0
BD19776	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.193	0.194	0.173	0.170 to 0.230	96.5	70.0 to 130	0.517	20.0
BD19775	Lead, Dissolved	mg/L	-0.0000024	0.000147	0.100	0.111	0.110	0.109	0.0850 to 0.115	111	70.0 to 130	0.905	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 09:25  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:45

**Description:** Greene County Ash Pond - MW-37H

**Laboratory ID Number:** BD19771

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19776	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.113	0.112	0.108	0.0850 to 0.115	113	70.0 to 130	0.889	20.0
BD19775	Lithium, Dissolved	mg/L	0.000276	0.0154	0.200	0.192	0.190	0.195	0.170 to 0.230	96.0	70.0 to 130	1.05	20.0
BD19776	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.192	0.193	0.196	0.170 to 0.230	96.0	70.0 to 130	0.519	20.0
BD19775	Magnesium, Dissolved	mg/L	-0.00166	0.0462	5.00	4.81	4.66	4.88	4.25 to 5.75	95.4	70.0 to 130	3.17	20.0
BD19776	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	4.81	4.84	4.82	4.25 to 5.75	96.2	70.0 to 130	0.622	20.0
BD19775	Manganese, Dissolved	mg/L	0.0000794	0.00033	0.100	0.0983	0.0961	0.0976	0.0850 to 0.115	96.9	70.0 to 130	2.26	20.0
BD19776	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.0946	0.0960	0.0958	0.0850 to 0.115	94.6	70.0 to 130	1.47	20.0
BD19776	Mercury, Total by CVAA	mg/L	0.000178	0.000500	0.004	0.00395	0.00382	0.00380	0.00340 to 0.00460	98.8	70.0 to 130	3.35	20.0
BD19775	Molybdenum, Dissolved	mg/L	0.000556	0.0100	0.2	0.196	0.194	0.198	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0
BD19776	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.196	0.198	0.197	0.170 to 0.230	98.0	70.0 to 130	1.02	20.0
BD19775	Potassium, Dissolved	mg/L	0.163	0.367	10.0	10.2	10.0	10.3	8.50 to 11.5	96.6	70.0 to 130	1.98	20.0
BD19776	Potassium, Total	mg/L	-0.0126	0.367	10.0	9.60	9.76	9.77	8.50 to 11.5	96.0	70.0 to 130	1.65	20.0
BD19775	Selenium, Dissolved	mg/L	0.0000076	0.00100	0.100	0.100	0.0976	0.103	0.0850 to 0.115	100	70.0 to 130	2.43	20.0
BD19776	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0989	0.0984	0.0977	0.0850 to 0.115	98.9	70.0 to 130	0.507	20.0
BD19775	Silicon, Dissolved	mg/L	0.000968	0.0440	1.00	6.37	6.39	0.989	0.850 to 1.15	99.0	70.0 to 130	0.313	20.0
BD19776	Silicon, Total	mg/L	-0.000714	0.0440	1.00	0.977	0.987	1.06	0.850 to 1.15	97.7	70.0 to 130	1.02	20.0
BD19775	Sodium, Dissolved	mg/L	0.00339	0.0880	5.00	89.6	79.8	4.88	4.25 to 5.75	290	70.0 to 130	11.6	20.0
BD19776	Sodium, Total	mg/L	0.00941	0.0880	5.00	4.82	4.82	4.96	4.25 to 5.75	95.3	70.0 to 130	0.00	20.0
BD19776	Sulfate	mg/L	-0.0875	2.0	20.0	19.8	20.3	20.5	18.0 to 22.0	99.0	80.0 to 120	2.49	20.0
BD19775	Thallium, Dissolved	mg/L	-0.0000198	0.000147	0.100	0.108	0.107	0.106	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19776	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.110	0.111	0.106	0.0850 to 0.115	110	70.0 to 130	0.905	20.0
BD19771	Total Organic Carbon	mg/L	0.120	1.00	10.0	15.9	16.4	23.4		99.0	80.0 to 120	3.10	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 09:25  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:45

**Description:** Greene County Ash Pond - MW-37H

**Laboratory ID Number:** BD19771

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD19774	Fluoride	mg/L	0.000000	0.0200	2.00	2.29	0.0722	2.08	1.80 to 2.20	111	80.0 to 120	5.26	20.0
BD19775	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.95	0.053	1.82	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19775	Solids, Dissolved	mg/L	0.0000	25.0			189	51.0	40.0 to 60.0			2.14	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-16

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 10:45  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:45

**Laboratory ID Number:** BD19772

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/30/23 13:08	11/2/23 17:09		1.015	1.99	mg/L	0.030000	0.1015	
* Calcium, Total	10/30/23 13:08	11/14/23 13:50		10.15	121	mg/L	0.70035	4.06	
* Iron, Total	10/30/23 13:08	11/14/23 13:50		10.15	17.1	mg/L	0.08120	0.406	
* Lithium, Total	10/30/23 13:08	11/2/23 17:09		1.015	0.552	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/30/23 13:08	11/2/23 17:09		1.015	23.5	mg/L	0.021315	0.406	
* Molybdenum, Total	10/30/23 13:08	11/2/23 17:09		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 17:09		1	12.7	mg/L			
* Silicon, Total	10/30/23 13:08	11/2/23 17:09		1.015	5.92	mg/L	0.02030	0.25375	
* Sodium, Total	10/30/23 13:08	11/2/23 17:09		1.015	33.3	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/30/23 12:08	11/2/23 18:42		1.015	1.96	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/30/23 12:08	11/14/23 12:56		10.15	119	mg/L	0.70035	4.06	
* Iron, Dissolved	10/30/23 12:08	11/14/23 12:56		10.15	17.3	mg/L	0.08120	0.406	
* Lithium, Dissolved	10/30/23 12:08	11/2/23 18:42		1.015	0.541	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/30/23 12:08	11/2/23 18:42		1.015	23.0	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/30/23 12:08	11/2/23 18:42		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/30/23 12:08	11/2/23 18:42		1	12.5	mg/L			
* Silicon, Dissolved	10/30/23 12:08	11/2/23 18:42		1.015	5.86	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/30/23 12:08	11/2/23 18:42		1.015	32.6	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/30/23 13:08	10/30/23 19:25		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/30/23 13:08	10/30/23 19:25		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/30/23 13:08	10/30/23 19:25		1.015	0.0580	mg/L	0.000112	0.000203	
* Barium, Total	10/30/23 13:08	10/30/23 19:25		1.015	0.126	mg/L	0.000508	0.001015	
* Beryllium, Total	10/30/23 13:08	10/30/23 19:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/30/23 13:08	10/30/23 19:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/30/23 13:08	10/30/23 19:25		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/30/23 13:08	10/30/23 19:25		1.015	0.0135	mg/L	0.000068	0.000203	
* Lead, Total	10/30/23 13:08	10/30/23 19:25		1.015	0.0000711	mg/L	0.000068	0.000203	J
* Manganese, Total	10/30/23 13:08	10/31/23 13:07		5.075	3.43	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-16

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 10:45  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:45

**Laboratory ID Number:** BD19772

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/30/23 13:08	10/30/23 19:25		1.015	12.7	mg/L	0.169505	0.5075	
* Selenium, Total	10/30/23 13:08	10/30/23 19:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/30/23 13:08	10/30/23 19:25		1.015	0.000339	mg/L	0.000068	0.000203	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/30/23 12:08	10/30/23 17:34		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/30/23 12:08	10/30/23 17:34		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/30/23 12:08	10/30/23 17:34		1.015	0.0509	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/30/23 12:08	10/30/23 17:34		1.015	0.117	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/30/23 12:08	10/30/23 17:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/30/23 12:08	10/30/23 17:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/30/23 12:08	10/30/23 17:34		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/30/23 12:08	10/30/23 17:34		1.015	0.0138	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/30/23 12:08	10/30/23 17:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/30/23 12:08	10/31/23 12:27		5.075	3.56	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/30/23 12:08	10/30/23 17:34		1.015	13.0	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/30/23 12:08	10/30/23 17:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/30/23 12:08	10/30/23 17:34		1.015	0.000341	mg/L	0.000068	0.000203	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 16:44		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 17:36	11/15/23 17:36		1	0.276	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 15:25	10/26/23 15:25		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 09:23		1	4.53	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 09:23		1	415	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: JS</b>							
* Solids, Dissolved	10/31/23 12:10	11/2/23 08:31		1	449	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 09:23		1	414	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 09:23		1	0.563	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-16

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 10:45  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:45

**Laboratory ID Number:** BD19772

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/30/23 15:17	10/30/23 15:17		1	3.33	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 16:27	10/30/23 16:27		1	8.33	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 09:12	11/7/23 09:12		1	35.7	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	10/25/23 10:43	10/25/23 10:43			765.36	uS/cm			FA
pH	10/25/23 10:43	10/25/23 10:43			6.53	SU			FA
Temperature	10/25/23 10:43	10/25/23 10:43			20.04	C			FA
Turbidity	10/25/23 10:43	10/25/23 10:43			3.56	NTU			FA
Sulfide	10/25/23 10:43	10/25/23 10:43			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 10:45  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:45

**Description:** Greene County Ash Pond - MW-16

**Laboratory ID Number:** BD19772

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19775	Aluminum, Dissolved	mg/L	-0.000178	0.0198	0.100	0.102	0.101	0.0939	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD19776	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.101	0.0958	0.0951	0.0850 to 0.115	101	70.0 to 130	5.28	20.0
BD19775	Antimony, Dissolved	mg/L	0.000272	0.00100	0.100	0.100	0.0981	0.0931	0.0850 to 0.115	100	70.0 to 130	1.92	20.0
BD19776	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.0952	0.0968	0.0978	0.0850 to 0.115	95.2	70.0 to 130	1.67	20.0
BD19775	Arsenic, Dissolved	mg/L	0.0000242	0.000200	0.100	0.0997	0.0965	0.0980	0.0850 to 0.115	97.8	70.0 to 130	3.26	20.0
BD19776	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0968	0.0977	0.0991	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19775	Barium, Dissolved	mg/L	0.0000446	0.00100	0.100	0.104	0.101	0.0980	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BD19776	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.103	0.0991	0.0989	0.0850 to 0.115	103	70.0 to 130	3.86	20.0
BD19775	Beryllium, Dissolved	mg/L	0.0000017	0.000880	0.100	0.113	0.110	0.0985	0.0850 to 0.115	113	70.0 to 130	2.69	20.0
BD19776	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.104	0.101	0.0960	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD19775	Boron, Dissolved	mg/L	-0.000118	0.0650	1.00	1.08	1.09	0.951	0.850 to 1.15	94.2	70.0 to 130	0.922	20.0
BD19776	Boron, Total	mg/L	0.000015	0.0650	1.00	0.946	0.949	1.03	0.850 to 1.15	94.6	70.0 to 130	0.317	20.0
BD19775	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.0994	0.0983	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BD19776	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0943	0.0987	0.0991	0.0850 to 0.115	94.3	70.0 to 130	4.56	20.0
BD19775	Calcium, Dissolved	mg/L	-0.0253	0.152	5.00	5.49	5.33	4.81	4.25 to 5.75	97.2	70.0 to 130	2.96	20.0
BD19776	Calcium, Total	mg/L	-0.0233	0.152	5.00	4.86	4.85	4.91	4.25 to 5.75	97.2	70.0 to 130	0.206	20.0
BD19774	Chloride	mg/L	0.00508	1.00	10.0	11.1	11.4	9.93	9.00 to 11.0	98.2	80.0 to 120	2.67	20.0
BD19775	Chromium, Dissolved	mg/L	-0.0000928	0.000440	0.100	0.0985	0.0974	0.101	0.0850 to 0.115	98.5	70.0 to 130	1.12	20.0
BD19776	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0960	0.0968	0.0980	0.0850 to 0.115	96.0	70.0 to 130	0.830	20.0
BD19775	Cobalt, Dissolved	mg/L	-0.0000269	0.000147	0.100	0.102	0.0993	0.102	0.0850 to 0.115	102	70.0 to 130	2.68	20.0
BD19776	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0976	0.0987	0.0996	0.0850 to 0.115	97.6	70.0 to 130	1.12	20.0
BD19775	Iron, Dissolved	mg/L	-0.00107	0.0176	0.2	0.193	0.192	0.194	0.170 to 0.230	96.5	70.0 to 130	0.519	20.0
BD19776	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.193	0.194	0.173	0.170 to 0.230	96.5	70.0 to 130	0.517	20.0
BD19775	Lead, Dissolved	mg/L	-0.0000024	0.000147	0.100	0.111	0.110	0.109	0.0850 to 0.115	111	70.0 to 130	0.905	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 10:45  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:45

**Description:** Greene County Ash Pond - MW-16

**Laboratory ID Number:** BD19772

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19776	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.113	0.112	0.108	0.0850 to 0.115	113	70.0 to 130	0.889	20.0
BD19775	Lithium, Dissolved	mg/L	0.000276	0.0154	0.200	0.192	0.190	0.195	0.170 to 0.230	96.0	70.0 to 130	1.05	20.0
BD19776	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.192	0.193	0.196	0.170 to 0.230	96.0	70.0 to 130	0.519	20.0
BD19775	Magnesium, Dissolved	mg/L	-0.00166	0.0462	5.00	4.81	4.66	4.88	4.25 to 5.75	95.4	70.0 to 130	3.17	20.0
BD19776	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	4.81	4.84	4.82	4.25 to 5.75	96.2	70.0 to 130	0.622	20.0
BD19775	Manganese, Dissolved	mg/L	0.0000794	0.00033	0.100	0.0983	0.0961	0.0976	0.0850 to 0.115	96.9	70.0 to 130	2.26	20.0
BD19776	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.0946	0.0960	0.0958	0.0850 to 0.115	94.6	70.0 to 130	1.47	20.0
BD19776	Mercury, Total by CVAA	mg/L	0.000178	0.000500	0.004	0.00395	0.00382	0.00380	0.00340 to 0.00460	98.8	70.0 to 130	3.35	20.0
BD19775	Molybdenum, Dissolved	mg/L	0.000556	0.0100	0.2	0.196	0.194	0.198	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0
BD19776	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.196	0.198	0.197	0.170 to 0.230	98.0	70.0 to 130	1.02	20.0
BD19775	Potassium, Dissolved	mg/L	0.163	0.367	10.0	10.2	10.0	10.3	8.50 to 11.5	96.6	70.0 to 130	1.98	20.0
BD19776	Potassium, Total	mg/L	-0.0126	0.367	10.0	9.60	9.76	9.77	8.50 to 11.5	96.0	70.0 to 130	1.65	20.0
BD19775	Selenium, Dissolved	mg/L	0.0000076	0.00100	0.100	0.100	0.0976	0.103	0.0850 to 0.115	100	70.0 to 130	2.43	20.0
BD19776	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0989	0.0984	0.0977	0.0850 to 0.115	98.9	70.0 to 130	0.507	20.0
BD19775	Silicon, Dissolved	mg/L	0.000968	0.0440	1.00	6.37	6.39	0.989	0.850 to 1.15	99.0	70.0 to 130	0.313	20.0
BD19776	Silicon, Total	mg/L	-0.000714	0.0440	1.00	0.977	0.987	1.06	0.850 to 1.15	97.7	70.0 to 130	1.02	20.0
BD19775	Sodium, Dissolved	mg/L	0.00339	0.0880	5.00	89.6	79.8	4.88	4.25 to 5.75	290	70.0 to 130	11.6	20.0
BD19776	Sodium, Total	mg/L	0.00941	0.0880	5.00	4.82	4.82	4.96	4.25 to 5.75	95.3	70.0 to 130	0.00	20.0
BD19776	Sulfate	mg/L	-0.0875	2.0	20.0	19.8	20.3	20.5	18.0 to 22.0	99.0	80.0 to 120	2.49	20.0
BD19775	Thallium, Dissolved	mg/L	-0.0000198	0.000147	0.100	0.108	0.107	0.106	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19776	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.110	0.111	0.106	0.0850 to 0.115	110	70.0 to 130	0.905	20.0
BD19775	Total Organic Carbon	mg/L	0.128	1.00	10.0	9.96	10.4	23.2		99.6	80.0 to 120	4.32	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 10:45  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:45

**Description:** Greene County Ash Pond - MW-16

**Laboratory ID Number:** BD19772

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD19774	Fluoride	mg/L	0.000000	0.0200	2.00	2.29	0.0722	2.08	1.80 to 2.20	111	80.0 to 120	5.26	20.0
BD19775	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.95	0.053	1.82	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19775	Solids, Dissolved	mg/L	0.0000	25.0			189	51.0	40.0 to 60.0			2.14	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-24

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 13:00  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:45

**Laboratory ID Number:** BD19773

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	10/30/23 13:08	11/2/23 17:13		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/30/23 13:08	11/2/23 17:13		1.015	33.9	mg/L	0.070035	0.406		
* Iron, Total	10/30/23 13:08	11/2/23 17:13		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	10/30/23 13:08	11/2/23 17:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/30/23 13:08	11/2/23 17:13		1.015	3.34	mg/L	0.021315	0.406		
* Molybdenum, Total	10/30/23 13:08	11/2/23 17:13		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 17:13		1	11.1	mg/L				
* Silicon, Total	10/30/23 13:08	11/2/23 17:13		1.015	5.18	mg/L	0.02030	0.25375		
* Sodium, Total	10/30/23 13:08	11/2/23 17:13		1.015	2.39	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	10/30/23 12:08	11/2/23 18:45		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	10/30/23 12:08	11/2/23 18:45		1.015	33.9	mg/L	0.070035	0.406		
* Iron, Dissolved	10/30/23 12:08	11/2/23 18:45		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	10/30/23 12:08	11/2/23 18:45		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	10/30/23 12:08	11/2/23 18:45		1.015	3.28	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	10/30/23 12:08	11/2/23 18:45		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	10/30/23 12:08	11/2/23 18:45		1	11.0	mg/L				
* Silicon, Dissolved	10/30/23 12:08	11/2/23 18:45		1.015	5.14	mg/L	0.02030	0.25375		
* Sodium, Dissolved	10/30/23 12:08	11/2/23 18:45		1.015	2.38	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	10/30/23 13:08	10/30/23 19:29		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	10/30/23 13:08	10/30/23 19:29		1.015	0.0310	mg/L	0.009135	0.05075	J	
* Arsenic, Total	10/30/23 13:08	10/30/23 19:29		1.015	0.000182	mg/L	0.000112	0.000203	J	
* Barium, Total	10/30/23 13:08	10/30/23 19:29		1.015	0.0527	mg/L	0.000508	0.001015		
* Beryllium, Total	10/30/23 13:08	10/30/23 19:29		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/30/23 13:08	10/30/23 19:29		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/30/23 13:08	10/30/23 19:29		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	10/30/23 13:08	10/30/23 19:29		1.015	0.000441	mg/L	0.000068	0.000203		
* Lead, Total	10/30/23 13:08	10/30/23 19:29		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/30/23 13:08	10/30/23 19:29		1.015	0.107	mg/L	0.000152	0.001015		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-24

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 13:00  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:45

**Laboratory ID Number:** BD19773

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/30/23 13:08	10/30/23 19:29		1.015	1.25	mg/L	0.169505	0.5075	
* Selenium, Total	10/30/23 13:08	10/30/23 19:29		1.015	0.000530	mg/L	0.000508	0.001015	J
* Thallium, Total	10/30/23 13:08	10/30/23 19:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/30/23 12:08	10/30/23 17:38		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/30/23 12:08	10/30/23 17:38		1.015	0.0198	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	10/30/23 12:08	10/30/23 17:38		1.015	0.000113	mg/L	0.000112	0.000203	J
* Barium, Dissolved	10/30/23 12:08	10/30/23 17:38		1.015	0.0527	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/30/23 12:08	10/30/23 17:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/30/23 12:08	10/30/23 17:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/30/23 12:08	10/30/23 17:38		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/30/23 12:08	10/30/23 17:38		1.015	0.000447	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/30/23 12:08	10/30/23 17:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/30/23 12:08	10/30/23 17:38		1.015	0.111	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/30/23 12:08	10/30/23 17:38		1.015	1.25	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/30/23 12:08	10/30/23 17:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/30/23 12:08	10/30/23 17:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 16:46		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 18:00	11/15/23 18:00		1	0.108	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 15:26	10/26/23 15:26		1	0.417	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 12:43		1	4.15	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 12:43		1	12.7	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: JS</b>							
* Solids, Dissolved	10/31/23 12:10	11/2/23 08:31		1	147	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 12:43		1	12.7	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 12:43		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-24

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 13:00  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:45

**Laboratory ID Number:** BD19773

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/30/23 15:32	10/30/23 15:32		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 16:28	10/30/23 16:28		1	3.45	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 09:25	11/7/23 09:25		4	78.9	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	10/25/23 12:57	10/25/23 12:57			206.00	uS/cm			FA
pH	10/25/23 12:57	10/25/23 12:57			5.33	SU			FA
Temperature	10/25/23 12:57	10/25/23 12:57			22.84	C			FA
Turbidity	10/25/23 12:57	10/25/23 12:57			0.13	NTU			FA
Sulfide	10/25/23 12:57	10/25/23 12:57			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 13:00  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:45

**Description:** Greene County Ash Pond - MW-24

**Laboratory ID Number:** BD19773

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19775	Aluminum, Dissolved	mg/L	-0.000178	0.0198	0.100	0.102	0.101	0.0939	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD19776	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.101	0.0958	0.0951	0.0850 to 0.115	101	70.0 to 130	5.28	20.0
BD19775	Antimony, Dissolved	mg/L	0.000272	0.00100	0.100	0.100	0.0981	0.0931	0.0850 to 0.115	100	70.0 to 130	1.92	20.0
BD19776	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.0952	0.0968	0.0978	0.0850 to 0.115	95.2	70.0 to 130	1.67	20.0
BD19775	Arsenic, Dissolved	mg/L	0.0000242	0.000200	0.100	0.0997	0.0965	0.0980	0.0850 to 0.115	97.8	70.0 to 130	3.26	20.0
BD19776	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0968	0.0977	0.0991	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19775	Barium, Dissolved	mg/L	0.0000446	0.00100	0.100	0.104	0.101	0.0980	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BD19776	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.103	0.0991	0.0989	0.0850 to 0.115	103	70.0 to 130	3.86	20.0
BD19775	Beryllium, Dissolved	mg/L	0.0000017	0.000880	0.100	0.113	0.110	0.0985	0.0850 to 0.115	113	70.0 to 130	2.69	20.0
BD19776	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.104	0.101	0.0960	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD19775	Boron, Dissolved	mg/L	-0.000118	0.0650	1.00	1.08	1.09	0.951	0.850 to 1.15	94.2	70.0 to 130	0.922	20.0
BD19776	Boron, Total	mg/L	0.000015	0.0650	1.00	0.946	0.949	1.03	0.850 to 1.15	94.6	70.0 to 130	0.317	20.0
BD19775	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.0994	0.0983	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BD19776	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0943	0.0987	0.0991	0.0850 to 0.115	94.3	70.0 to 130	4.56	20.0
BD19775	Calcium, Dissolved	mg/L	-0.0253	0.152	5.00	5.49	5.33	4.81	4.25 to 5.75	97.2	70.0 to 130	2.96	20.0
BD19776	Calcium, Total	mg/L	-0.0233	0.152	5.00	4.86	4.85	4.91	4.25 to 5.75	97.2	70.0 to 130	0.206	20.0
BD19774	Chloride	mg/L	0.00508	1.00	10.0	11.1	11.4	9.93	9.00 to 11.0	98.2	80.0 to 120	2.67	20.0
BD19775	Chromium, Dissolved	mg/L	-0.0000928	0.000440	0.100	0.0985	0.0974	0.101	0.0850 to 0.115	98.5	70.0 to 130	1.12	20.0
BD19776	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0960	0.0968	0.0980	0.0850 to 0.115	96.0	70.0 to 130	0.830	20.0
BD19775	Cobalt, Dissolved	mg/L	-0.0000269	0.000147	0.100	0.102	0.0993	0.102	0.0850 to 0.115	102	70.0 to 130	2.68	20.0
BD19776	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0976	0.0987	0.0996	0.0850 to 0.115	97.6	70.0 to 130	1.12	20.0
BD19775	Iron, Dissolved	mg/L	-0.00107	0.0176	0.2	0.193	0.192	0.194	0.170 to 0.230	96.5	70.0 to 130	0.519	20.0
BD19776	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.193	0.194	0.173	0.170 to 0.230	96.5	70.0 to 130	0.517	20.0
BD19775	Lead, Dissolved	mg/L	-0.0000024	0.000147	0.100	0.111	0.110	0.109	0.0850 to 0.115	111	70.0 to 130	0.905	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 13:00  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:45

**Description:** Greene County Ash Pond - MW-24

**Laboratory ID Number:** BD19773

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19776	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.113	0.112	0.108	0.0850 to 0.115	113	70.0 to 130	0.889	20.0
BD19775	Lithium, Dissolved	mg/L	0.000276	0.0154	0.200	0.192	0.190	0.195	0.170 to 0.230	96.0	70.0 to 130	1.05	20.0
BD19776	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.192	0.193	0.196	0.170 to 0.230	96.0	70.0 to 130	0.519	20.0
BD19775	Magnesium, Dissolved	mg/L	-0.00166	0.0462	5.00	4.81	4.66	4.88	4.25 to 5.75	95.4	70.0 to 130	3.17	20.0
BD19776	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	4.81	4.84	4.82	4.25 to 5.75	96.2	70.0 to 130	0.622	20.0
BD19775	Manganese, Dissolved	mg/L	0.0000794	0.00033	0.100	0.0983	0.0961	0.0976	0.0850 to 0.115	96.9	70.0 to 130	2.26	20.0
BD19776	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.0946	0.0960	0.0958	0.0850 to 0.115	94.6	70.0 to 130	1.47	20.0
BD19776	Mercury, Total by CVAA	mg/L	0.000178	0.000500	0.004	0.00395	0.00382	0.00380	0.00340 to 0.00460	98.8	70.0 to 130	3.35	20.0
BD19775	Molybdenum, Dissolved	mg/L	0.000556	0.0100	0.2	0.196	0.194	0.198	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0
BD19776	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.196	0.198	0.197	0.170 to 0.230	98.0	70.0 to 130	1.02	20.0
BD19775	Potassium, Dissolved	mg/L	0.163	0.367	10.0	10.2	10.0	10.3	8.50 to 11.5	96.6	70.0 to 130	1.98	20.0
BD19776	Potassium, Total	mg/L	-0.0126	0.367	10.0	9.60	9.76	9.77	8.50 to 11.5	96.0	70.0 to 130	1.65	20.0
BD19775	Selenium, Dissolved	mg/L	0.0000076	0.00100	0.100	0.100	0.0976	0.103	0.0850 to 0.115	100	70.0 to 130	2.43	20.0
BD19776	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0989	0.0984	0.0977	0.0850 to 0.115	98.9	70.0 to 130	0.507	20.0
BD19775	Silicon, Dissolved	mg/L	0.000968	0.0440	1.00	6.37	6.39	0.989	0.850 to 1.15	99.0	70.0 to 130	0.313	20.0
BD19776	Silicon, Total	mg/L	-0.000714	0.0440	1.00	0.977	0.987	1.06	0.850 to 1.15	97.7	70.0 to 130	1.02	20.0
BD19775	Sodium, Dissolved	mg/L	0.00339	0.0880	5.00	89.6	79.8	4.88	4.25 to 5.75	290	70.0 to 130	11.6	20.0
BD19776	Sodium, Total	mg/L	0.00941	0.0880	5.00	4.82	4.82	4.96	4.25 to 5.75	95.3	70.0 to 130	0.00	20.0
BD19776	Sulfate	mg/L	-0.0875	2.0	20.0	19.8	20.3	20.5	18.0 to 22.0	99.0	80.0 to 120	2.49	20.0
BD19775	Thallium, Dissolved	mg/L	-0.0000198	0.000147	0.100	0.108	0.107	0.106	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19776	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.110	0.111	0.106	0.0850 to 0.115	110	70.0 to 130	0.905	20.0
BD19775	Total Organic Carbon	mg/L	0.128	1.00	10.0	9.96	10.4	23.2		99.6	80.0 to 120	4.32	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 13:00  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:45

**Description:** Greene County Ash Pond - MW-24

**Laboratory ID Number:** BD19773

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD19774	Fluoride	mg/L	0.000000	0.0200	2.00	2.29	0.0722	2.08	1.80 to 2.20	111	80.0 to 120	5.26	20.0
BD19775	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.95	0.053	1.82	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19775	Solids, Dissolved	mg/L	0.0000	25.0			189	51.0	40.0 to 60.0			2.14	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-23

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 13:55  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:45

**Laboratory ID Number:** BD19774

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	10/30/23 13:08	11/2/23 17:16		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/30/23 13:08	11/2/23 17:16		1.015	24.2	mg/L	0.070035	0.406		
* Iron, Total	10/30/23 13:08	11/2/23 17:16		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	10/30/23 13:08	11/2/23 17:16		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/30/23 13:08	11/2/23 17:16		1.015	1.96	mg/L	0.021315	0.406		
* Molybdenum, Total	10/30/23 13:08	11/2/23 17:16		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 17:16		1	8.15	mg/L				
* Silicon, Total	10/30/23 13:08	11/2/23 17:16		1.015	3.81	mg/L	0.02030	0.25375		
* Sodium, Total	10/30/23 13:08	11/2/23 17:16		1.015	2.06	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	10/30/23 12:08	11/2/23 18:48		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	10/30/23 12:08	11/2/23 18:48		1.015	24.0	mg/L	0.070035	0.406		
* Iron, Dissolved	10/30/23 12:08	11/2/23 18:48		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	10/30/23 12:08	11/2/23 18:48		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	10/30/23 12:08	11/2/23 18:48		1.015	1.92	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	10/30/23 12:08	11/2/23 18:48		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	10/30/23 12:08	11/2/23 18:48		1	8.09	mg/L				
* Silicon, Dissolved	10/30/23 12:08	11/2/23 18:48		1.015	3.78	mg/L	0.02030	0.25375		
* Sodium, Dissolved	10/30/23 12:08	11/2/23 18:48		1.015	2.07	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	10/30/23 13:08	10/30/23 19:33		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	10/30/23 13:08	10/30/23 19:33		1.015	0.0178	mg/L	0.009135	0.05075	J	
* Arsenic, Total	10/30/23 13:08	10/30/23 19:33		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	10/30/23 13:08	10/30/23 19:33		1.015	0.0315	mg/L	0.000508	0.001015		
* Beryllium, Total	10/30/23 13:08	10/30/23 19:33		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/30/23 13:08	10/30/23 19:33		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/30/23 13:08	10/30/23 19:33		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	10/30/23 13:08	10/30/23 19:33		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	10/30/23 13:08	10/30/23 19:33		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/30/23 13:08	10/30/23 19:33		1.015	0.000236	mg/L	0.000152	0.001015	J	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-23

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 13:55  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:45

**Laboratory ID Number:** BD19774

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/30/23 13:08	10/30/23 19:33		1.015	0.822	mg/L	0.169505	0.5075	
* Selenium, Total	10/30/23 13:08	10/30/23 19:33		1.015	0.000992	mg/L	0.000508	0.001015	J
* Thallium, Total	10/30/23 13:08	10/30/23 19:33		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/30/23 12:08	10/30/23 17:42		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/30/23 12:08	10/30/23 17:42		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/30/23 12:08	10/30/23 17:42		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/30/23 12:08	10/30/23 17:42		1.015	0.0324	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/30/23 12:08	10/30/23 17:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/30/23 12:08	10/30/23 17:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/30/23 12:08	10/30/23 17:42		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/30/23 12:08	10/30/23 17:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/30/23 12:08	10/30/23 17:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/30/23 12:08	10/30/23 17:42		1.015	0.000154	mg/L	0.000152	0.001015	J
* Potassium, Dissolved	10/30/23 12:08	10/30/23 17:42		1.015	0.861	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/30/23 12:08	10/30/23 17:42		1.015	0.00101	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	10/30/23 12:08	10/30/23 17:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 16:49		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 18:23	11/15/23 18:23		1	0.0761	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 15:28	10/26/23 15:28		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 12:43		1	4.47	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 12:43		1	63.1	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: JS</b>							
* Solids, Dissolved	10/31/23 12:10	11/2/23 08:31		1	87.3	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 12:43		1	63.1	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 12:43		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-23

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 13:55  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:45

**Laboratory ID Number:** BD19774

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/30/23 15:46	10/30/23 15:46		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 16:29	10/30/23 16:29		1	1.28	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 09:14	11/7/23 09:14		1	12.6	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	10/25/23 13:50	10/25/23 13:50			136.11	uS/cm			FA
pH	10/25/23 13:50	10/25/23 13:50			6.17	SU			FA
Temperature	10/25/23 13:50	10/25/23 13:50			23.27	C			FA
Turbidity	10/25/23 13:50	10/25/23 13:50			1.13	NTU			FA
Sulfide	10/25/23 13:50	10/25/23 13:50			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 13:55  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:45

**Description:** Greene County Ash Pond - MW-23

**Laboratory ID Number:** BD19774

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19775	Aluminum, Dissolved	mg/L	-0.000178	0.0198	0.100	0.102	0.101	0.0939	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD19776	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.101	0.0958	0.0951	0.0850 to 0.115	101	70.0 to 130	5.28	20.0
BD19775	Antimony, Dissolved	mg/L	0.000272	0.00100	0.100	0.100	0.0981	0.0931	0.0850 to 0.115	100	70.0 to 130	1.92	20.0
BD19776	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.0952	0.0968	0.0978	0.0850 to 0.115	95.2	70.0 to 130	1.67	20.0
BD19775	Arsenic, Dissolved	mg/L	0.0000242	0.000200	0.100	0.0997	0.0965	0.0980	0.0850 to 0.115	97.8	70.0 to 130	3.26	20.0
BD19776	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0968	0.0977	0.0991	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19775	Barium, Dissolved	mg/L	0.0000446	0.00100	0.100	0.104	0.101	0.0980	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BD19776	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.103	0.0991	0.0989	0.0850 to 0.115	103	70.0 to 130	3.86	20.0
BD19775	Beryllium, Dissolved	mg/L	0.0000017	0.000880	0.100	0.113	0.110	0.0985	0.0850 to 0.115	113	70.0 to 130	2.69	20.0
BD19776	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.104	0.101	0.0960	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD19775	Boron, Dissolved	mg/L	-0.000118	0.0650	1.00	1.08	1.09	0.951	0.850 to 1.15	94.2	70.0 to 130	0.922	20.0
BD19776	Boron, Total	mg/L	0.000015	0.0650	1.00	0.946	0.949	1.03	0.850 to 1.15	94.6	70.0 to 130	0.317	20.0
BD19775	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.0994	0.0983	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BD19776	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0943	0.0987	0.0991	0.0850 to 0.115	94.3	70.0 to 130	4.56	20.0
BD19775	Calcium, Dissolved	mg/L	-0.0253	0.152	5.00	5.49	5.33	4.81	4.25 to 5.75	97.2	70.0 to 130	2.96	20.0
BD19776	Calcium, Total	mg/L	-0.0233	0.152	5.00	4.86	4.85	4.91	4.25 to 5.75	97.2	70.0 to 130	0.206	20.0
BD19774	Chloride	mg/L	0.00508	1.00	10.0	11.1	11.4	9.93	9.00 to 11.0	98.2	80.0 to 120	2.67	20.0
BD19775	Chromium, Dissolved	mg/L	-0.0000928	0.000440	0.100	0.0985	0.0974	0.101	0.0850 to 0.115	98.5	70.0 to 130	1.12	20.0
BD19776	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0960	0.0968	0.0980	0.0850 to 0.115	96.0	70.0 to 130	0.830	20.0
BD19775	Cobalt, Dissolved	mg/L	-0.0000269	0.000147	0.100	0.102	0.0993	0.102	0.0850 to 0.115	102	70.0 to 130	2.68	20.0
BD19776	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0976	0.0987	0.0996	0.0850 to 0.115	97.6	70.0 to 130	1.12	20.0
BD19775	Iron, Dissolved	mg/L	-0.00107	0.0176	0.2	0.193	0.192	0.194	0.170 to 0.230	96.5	70.0 to 130	0.519	20.0
BD19776	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.193	0.194	0.173	0.170 to 0.230	96.5	70.0 to 130	0.517	20.0
BD19775	Lead, Dissolved	mg/L	-0.0000024	0.000147	0.100	0.111	0.110	0.109	0.0850 to 0.115	111	70.0 to 130	0.905	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 13:55  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:45

**Description:** Greene County Ash Pond - MW-23

**Laboratory ID Number:** BD19774

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19776	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.113	0.112	0.108	0.0850 to 0.115	113	70.0 to 130	0.889	20.0
BD19775	Lithium, Dissolved	mg/L	0.000276	0.0154	0.200	0.192	0.190	0.195	0.170 to 0.230	96.0	70.0 to 130	1.05	20.0
BD19776	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.192	0.193	0.196	0.170 to 0.230	96.0	70.0 to 130	0.519	20.0
BD19775	Magnesium, Dissolved	mg/L	-0.00166	0.0462	5.00	4.81	4.66	4.88	4.25 to 5.75	95.4	70.0 to 130	3.17	20.0
BD19776	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	4.81	4.84	4.82	4.25 to 5.75	96.2	70.0 to 130	0.622	20.0
BD19775	Manganese, Dissolved	mg/L	0.0000794	0.00033	0.100	0.0983	0.0961	0.0976	0.0850 to 0.115	96.9	70.0 to 130	2.26	20.0
BD19776	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.0946	0.0960	0.0958	0.0850 to 0.115	94.6	70.0 to 130	1.47	20.0
BD19776	Mercury, Total by CVAA	mg/L	0.000178	0.000500	0.004	0.00395	0.00382	0.00380	0.00340 to 0.00460	98.8	70.0 to 130	3.35	20.0
BD19775	Molybdenum, Dissolved	mg/L	0.000556	0.0100	0.2	0.196	0.194	0.198	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0
BD19776	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.196	0.198	0.197	0.170 to 0.230	98.0	70.0 to 130	1.02	20.0
BD19775	Potassium, Dissolved	mg/L	0.163	0.367	10.0	10.2	10.0	10.3	8.50 to 11.5	96.6	70.0 to 130	1.98	20.0
BD19776	Potassium, Total	mg/L	-0.0126	0.367	10.0	9.60	9.76	9.77	8.50 to 11.5	96.0	70.0 to 130	1.65	20.0
BD19775	Selenium, Dissolved	mg/L	0.0000076	0.00100	0.100	0.100	0.0976	0.103	0.0850 to 0.115	100	70.0 to 130	2.43	20.0
BD19776	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0989	0.0984	0.0977	0.0850 to 0.115	98.9	70.0 to 130	0.507	20.0
BD19775	Silicon, Dissolved	mg/L	0.000968	0.0440	1.00	6.37	6.39	0.989	0.850 to 1.15	99.0	70.0 to 130	0.313	20.0
BD19776	Silicon, Total	mg/L	-0.000714	0.0440	1.00	0.977	0.987	1.06	0.850 to 1.15	97.7	70.0 to 130	1.02	20.0
BD19775	Sodium, Dissolved	mg/L	0.00339	0.0880	5.00	89.6	79.8	4.88	4.25 to 5.75	290	70.0 to 130	11.6	20.0
BD19776	Sodium, Total	mg/L	0.00941	0.0880	5.00	4.82	4.82	4.96	4.25 to 5.75	95.3	70.0 to 130	0.00	20.0
BD19776	Sulfate	mg/L	-0.0875	2.0	20.0	19.8	20.3	20.5	18.0 to 22.0	99.0	80.0 to 120	2.49	20.0
BD19775	Thallium, Dissolved	mg/L	-0.0000198	0.000147	0.100	0.108	0.107	0.106	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19776	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.110	0.111	0.106	0.0850 to 0.115	110	70.0 to 130	0.905	20.0
BD19775	Total Organic Carbon	mg/L	0.128	1.00	10.0	9.96	10.4	23.2		99.6	80.0 to 120	4.32	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 13:55  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:45

**Description:** Greene County Ash Pond - MW-23

**Laboratory ID Number:** BD19774

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD19774	Fluoride	mg/L	0.000000	0.0200	2.00	2.29	0.0722	2.08	1.80 to 2.20	111	80.0 to 120	5.26	20.0
BD19775	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.95	0.053	1.82	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19775	Solids, Dissolved	mg/L	0.0000	25.0			189	51.0	40.0 to 60.0			2.14	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-36H

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 16:25  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:45

**Laboratory ID Number:** BD19775

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	10/30/23 13:08	11/2/23 17:19		1.015	0.140	mg/L	0.030000	0.1015		
* Calcium, Total	10/30/23 13:08	11/2/23 17:19		1.015	0.851	mg/L	0.070035	0.406		
* Iron, Total	10/30/23 13:08	11/2/23 17:19		1.015	0.256	mg/L	0.008120	0.0406		
* Lithium, Total	10/30/23 13:08	11/2/23 17:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/30/23 13:08	11/2/23 17:19		1.015	0.0616	mg/L	0.021315	0.406	J	
* Molybdenum, Total	10/30/23 13:08	11/2/23 17:19		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 17:19		1	12.6	mg/L				
* Silicon, Total	10/30/23 13:08	11/2/23 17:19		1.015	5.89	mg/L	0.02030	0.25375		
* Sodium, Total	10/30/23 13:08	11/14/23 13:53		10.15	73.9	mg/L	0.4060	4.06		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	10/30/23 12:08	11/2/23 18:51		1.015	0.138	mg/L	0.030000	0.1015		
* Calcium, Dissolved	10/30/23 12:08	11/2/23 18:51		1.015	0.632	mg/L	0.070035	0.406		
* Iron, Dissolved	10/30/23 12:08	11/2/23 18:51		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	10/30/23 12:08	11/2/23 18:51		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	10/30/23 12:08	11/2/23 18:51		1.015	0.0404	mg/L	0.021315	0.406	J	
* Molybdenum, Dissolved	10/30/23 12:08	11/2/23 18:51		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	10/30/23 12:08	11/2/23 18:51		1	11.5	mg/L				
* Silicon, Dissolved	10/30/23 12:08	11/2/23 18:51		1.015	5.38	mg/L	0.02030	0.25375		
* Sodium, Dissolved	10/30/23 12:08	11/14/23 13:06		10.15	75.1	mg/L	0.4060	4.06	RA	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	10/30/23 13:08	10/30/23 19:37		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	10/30/23 13:08	10/30/23 19:37		1.015	0.933	mg/L	0.009135	0.05075		
* Arsenic, Total	10/30/23 13:08	10/30/23 19:37		1.015	0.00200	mg/L	0.000112	0.000203		
* Barium, Total	10/30/23 13:08	10/30/23 19:37		1.015	0.00357	mg/L	0.000508	0.001015		
* Beryllium, Total	10/30/23 13:08	10/30/23 19:37		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/30/23 13:08	10/30/23 19:37		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/30/23 13:08	10/30/23 19:37		1.015	0.00114	mg/L	0.000203	0.001015		
* Cobalt, Total	10/30/23 13:08	10/30/23 19:37		1.015	0.000572	mg/L	0.000068	0.000203		
* Lead, Total	10/30/23 13:08	10/30/23 19:37		1.015	0.000493	mg/L	0.000068	0.000203		
* Manganese, Total	10/30/23 13:08	10/30/23 19:37		1.015	0.00631	mg/L	0.000152	0.001015		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Fluoride was performed outside of the analytical holding time.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-36H

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 16:25  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:45

**Laboratory ID Number:** BD19775

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/30/23 13:08	10/30/23 19:37		1.015	0.579	mg/L	0.169505	0.5075	
* Selenium, Total	10/30/23 13:08	10/30/23 19:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/30/23 13:08	10/30/23 19:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/30/23 12:08	10/30/23 17:46		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/30/23 12:08	10/30/23 17:46		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/30/23 12:08	10/30/23 17:46		1.015	0.00189	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/30/23 12:08	10/30/23 17:46		1.015	0.000808	mg/L	0.000508	0.001015	J
* Beryllium, Dissolved	10/30/23 12:08	10/30/23 17:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/30/23 12:08	10/30/23 17:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/30/23 12:08	10/30/23 17:46		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/30/23 12:08	10/30/23 17:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/30/23 12:08	10/30/23 17:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/30/23 12:08	10/30/23 17:46		1.015	0.00136	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/30/23 12:08	10/30/23 17:46		1.015	0.544	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/30/23 12:08	10/30/23 17:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/30/23 12:08	10/30/23 17:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 16:51		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/30/23 13:51	11/30/23 13:51		1	0.321	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/26/23 15:30	10/26/23 15:30		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 12:43		1	4.50	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 12:43		1	140	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: JS</b>							
* Solids, Dissolved	10/31/23 12:10	11/2/23 08:31		1	185	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 12:43		1	138	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 12:43		1	2.35	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Fluoride was performed outside of the analytical holding time.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-36H

**Location Code:** WMWGREAP  
**Collected:** 10/25/23 16:25  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:45

**Laboratory ID Number:** BD19775

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/30/23 16:01	10/30/23 16:01		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 16:43	10/30/23 16:43		1	1.99	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 09:15	11/7/23 09:15		1	13.7	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	10/25/23 16:22	10/25/23 16:22			258.01	uS/cm			FA
pH	10/25/23 16:22	10/25/23 16:22			7.98	SU			FA
Temperature	10/25/23 16:22	10/25/23 16:22			23.65	C			FA
Turbidity	10/25/23 16:22	10/25/23 16:22			9.78	NTU			FA
Sulfide	10/25/23 16:22	10/25/23 16:22			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Fluoride was performed outside of the analytical holding time.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 16:25  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:45

**Description:** Greene County Ash Pond - MW-36H

**Laboratory ID Number:** BD19775

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19775	Aluminum, Dissolved	mg/L	-0.000178	0.0198	0.100	0.102	0.101	0.0939	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD19776	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.101	0.0958	0.0951	0.0850 to 0.115	101	70.0 to 130	5.28	20.0
BD19775	Antimony, Dissolved	mg/L	0.000272	0.00100	0.100	0.100	0.0981	0.0931	0.0850 to 0.115	100	70.0 to 130	1.92	20.0
BD19776	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.0952	0.0968	0.0978	0.0850 to 0.115	95.2	70.0 to 130	1.67	20.0
BD19775	Arsenic, Dissolved	mg/L	0.0000242	0.000200	0.100	0.0997	0.0965	0.0980	0.0850 to 0.115	97.8	70.0 to 130	3.26	20.0
BD19776	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0968	0.0977	0.0991	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19775	Barium, Dissolved	mg/L	0.0000446	0.00100	0.100	0.104	0.101	0.0980	0.0850 to 0.115	103	70.0 to 130	2.93	20.0
BD19776	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.103	0.0991	0.0989	0.0850 to 0.115	103	70.0 to 130	3.86	20.0
BD19775	Beryllium, Dissolved	mg/L	0.0000017	0.000880	0.100	0.113	0.110	0.0985	0.0850 to 0.115	113	70.0 to 130	2.69	20.0
BD19776	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.104	0.101	0.0960	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD19775	Boron, Dissolved	mg/L	-0.000118	0.0650	1.00	1.08	1.09	0.951	0.850 to 1.15	94.2	70.0 to 130	0.922	20.0
BD19776	Boron, Total	mg/L	0.000015	0.0650	1.00	0.946	0.949	1.03	0.850 to 1.15	94.6	70.0 to 130	0.317	20.0
BD19775	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.0994	0.0983	0.0850 to 0.115	101	70.0 to 130	1.60	20.0
BD19776	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0943	0.0987	0.0991	0.0850 to 0.115	94.3	70.0 to 130	4.56	20.0
BD19775	Calcium, Dissolved	mg/L	-0.0253	0.152	5.00	5.49	5.33	4.81	4.25 to 5.75	97.2	70.0 to 130	2.96	20.0
BD19776	Calcium, Total	mg/L	-0.0233	0.152	5.00	4.86	4.85	4.91	4.25 to 5.75	97.2	70.0 to 130	0.206	20.0
BD19776	Chloride	mg/L	-0.134	1.00	10.0	9.87	9.71	9.84	9.00 to 11.0	98.7	80.0 to 120	1.63	20.0
BD19775	Chromium, Dissolved	mg/L	-0.0000928	0.000440	0.100	0.0985	0.0974	0.101	0.0850 to 0.115	98.5	70.0 to 130	1.12	20.0
BD19776	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0960	0.0968	0.0980	0.0850 to 0.115	96.0	70.0 to 130	0.830	20.0
BD19775	Cobalt, Dissolved	mg/L	-0.0000269	0.000147	0.100	0.102	0.0993	0.102	0.0850 to 0.115	102	70.0 to 130	2.68	20.0
BD19776	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0976	0.0987	0.0996	0.0850 to 0.115	97.6	70.0 to 130	1.12	20.0
BD19775	Iron, Dissolved	mg/L	-0.00107	0.0176	0.2	0.193	0.192	0.194	0.170 to 0.230	96.5	70.0 to 130	0.519	20.0
BD19776	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.193	0.194	0.173	0.170 to 0.230	96.5	70.0 to 130	0.517	20.0
BD19775	Lead, Dissolved	mg/L	-0.0000024	0.000147	0.100	0.111	0.110	0.109	0.0850 to 0.115	111	70.0 to 130	0.905	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Fluoride was performed outside of the analytical holding time.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 16:25  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:45

**Description:** Greene County Ash Pond - MW-36H

**Laboratory ID Number:** BD19775

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19776	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.113	0.112	0.108	0.0850 to 0.115	113	70.0 to 130	0.889	20.0
BD19775	Lithium, Dissolved	mg/L	0.000276	0.0154	0.200	0.192	0.190	0.195	0.170 to 0.230	96.0	70.0 to 130	1.05	20.0
BD19776	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.192	0.193	0.196	0.170 to 0.230	96.0	70.0 to 130	0.519	20.0
BD19775	Magnesium, Dissolved	mg/L	-0.00166	0.0462	5.00	4.81	4.66	4.88	4.25 to 5.75	95.4	70.0 to 130	3.17	20.0
BD19776	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	4.81	4.84	4.82	4.25 to 5.75	96.2	70.0 to 130	0.622	20.0
BD19775	Manganese, Dissolved	mg/L	0.0000794	0.00033	0.100	0.0983	0.0961	0.0976	0.0850 to 0.115	96.9	70.0 to 130	2.26	20.0
BD19776	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.0946	0.0960	0.0958	0.0850 to 0.115	94.6	70.0 to 130	1.47	20.0
BD19776	Mercury, Total by CVAA	mg/L	0.000178	0.000500	0.004	0.00395	0.00382	0.00380	0.00340 to 0.00460	98.8	70.0 to 130	3.35	20.0
BD19775	Molybdenum, Dissolved	mg/L	0.000556	0.0100	0.2	0.196	0.194	0.198	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0
BD19776	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.196	0.198	0.197	0.170 to 0.230	98.0	70.0 to 130	1.02	20.0
BD19775	Potassium, Dissolved	mg/L	0.163	0.367	10.0	10.2	10.0	10.3	8.50 to 11.5	96.6	70.0 to 130	1.98	20.0
BD19776	Potassium, Total	mg/L	-0.0126	0.367	10.0	9.60	9.76	9.77	8.50 to 11.5	96.0	70.0 to 130	1.65	20.0
BD19775	Selenium, Dissolved	mg/L	0.0000076	0.00100	0.100	0.100	0.0976	0.103	0.0850 to 0.115	100	70.0 to 130	2.43	20.0
BD19776	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0989	0.0984	0.0977	0.0850 to 0.115	98.9	70.0 to 130	0.507	20.0
BD19775	Silicon, Dissolved	mg/L	0.000968	0.0440	1.00	6.37	6.39	0.989	0.850 to 1.15	99.0	70.0 to 130	0.313	20.0
BD19776	Silicon, Total	mg/L	-0.000714	0.0440	1.00	0.977	0.987	1.06	0.850 to 1.15	97.7	70.0 to 130	1.02	20.0
BD19775	Sodium, Dissolved	mg/L	0.00339	0.0880	5.00	89.6	79.8	4.88	4.25 to 5.75	290	70.0 to 130	11.6	20.0
BD19776	Sodium, Total	mg/L	0.00941	0.0880	5.00	4.82	4.82	4.96	4.25 to 5.75	95.3	70.0 to 130	0.00	20.0
BD19776	Sulfate	mg/L	-0.0875	2.0	20.0	19.8	20.3	20.5	18.0 to 22.0	99.0	80.0 to 120	2.49	20.0
BD19775	Thallium, Dissolved	mg/L	-0.0000198	0.000147	0.100	0.108	0.107	0.106	0.0850 to 0.115	108	70.0 to 130	0.930	20.0
BD19776	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.110	0.111	0.106	0.0850 to 0.115	110	70.0 to 130	0.905	20.0
BD19775	Total Organic Carbon	mg/L	0.128	1.00	10.0	9.96	10.4	23.2		99.6	80.0 to 120	4.32	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Fluoride was performed outside of the analytical holding time.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/25/23 16:25  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:45

**Description:** Greene County Ash Pond - MW-36H

**Laboratory ID Number:** BD19775

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD20947	Fluoride	mg/L	0.000000	0.0200	2.00	2.99	0.835	2.03	1.80 to 2.20	108	80.0 to 120	0.00	20.0
BD19775	Nitrogen, Nitrate/Nitrite	mg/L as N	0.00	0.200	2.00	1.95	0.053	1.82	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19775	Solids, Dissolved	mg/L	0.0000	25.0			189	51.0	40.0 to 60.0			2.14	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Fluoride was performed outside of the analytical holding time.

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-2

**Location Code:** WMWGREAPFB  
**Collected:** 10/25/23 16:55  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:45

**Laboratory ID Number:** BD19776

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	10/30/23 13:08	11/2/23 17:22		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/30/23 13:08	11/2/23 17:22		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	10/30/23 13:08	11/2/23 17:22		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	10/30/23 13:08	11/2/23 17:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/30/23 13:08	11/2/23 17:22		1.015	Not Detected	mg/L	0.021315	0.406	U	
* Molybdenum, Total	10/30/23 13:08	11/2/23 17:22		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/30/23 13:08	11/2/23 17:22		1	Not Detected	mg/L				
* Silicon, Total	10/30/23 13:08	11/2/23 17:22		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	10/30/23 13:08	11/2/23 17:22		1.015	0.0543	mg/L	0.04060	0.406	J	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	10/30/23 13:08	10/30/23 19:40		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	10/30/23 13:08	10/30/23 19:40		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	10/30/23 13:08	10/30/23 19:40		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	10/30/23 13:08	10/30/23 19:40		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	10/30/23 13:08	10/30/23 19:40		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/30/23 13:08	10/30/23 19:40		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/30/23 13:08	10/30/23 19:40		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	10/30/23 13:08	10/30/23 19:40		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	10/30/23 13:08	10/30/23 19:40		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/30/23 13:08	10/30/23 19:40		1.015	Not Detected	mg/L	0.000152	0.001015	U	
* Potassium, Total	10/30/23 13:08	10/30/23 19:40		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	10/30/23 13:08	10/30/23 19:40		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	10/30/23 13:08	10/30/23 19:40		1.015	Not Detected	mg/L	0.000068	0.000203	U	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>								
* Mercury, Total by CVAA	11/1/23 11:03	11/1/23 16:53		1	Not Detected	mg/L	0.0003	0.0005	U	
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>								
* Fluoride	11/30/23 14:14	11/30/23 14:14		1	Not Detected	mg/L	0.02	0.04	U	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>								
* Nitrogen, Nitrate/Nitrite	10/26/23 15:35	10/26/23 15:35		1	Not Detected	mg/L as N	0.20	0.3	U	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Fluoride was performed outside of the analytical holding time.



# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-2

**Location Code:** WMWGREAPFB  
**Collected:** 10/25/23 16:55  
**Customer ID:**  
**Submittal Date:** 10/26/23 11:45

**Laboratory ID Number:** BD19776

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 2540C</b>		<b>Analyst: JS</b>							
* Solids, Dissolved	10/31/23 12:10	11/2/23 08:31		1	Not Detected	mg/L		25	U
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/30/23 16:47	10/30/23 16:47		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500CI E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 16:44	10/30/23 16:44		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 09:16	11/7/23 09:16		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:** Fluoride was performed outside of the analytical holding time.

# Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 10/25/23 16:55

**Customer ID:**

**Delivery Date:** 10/26/23 11:45

**Description:** Greene County Ash Pond Field Blank-2

**Laboratory ID Number:** BD19776

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19776	Aluminum, Total	mg/L	0.00106	0.0198	0.100	0.101	0.0958	0.0951	0.0850 to 0.115	101	70.0 to 130	5.28	20.0
BD19776	Antimony, Total	mg/L	0.000286	0.00100	0.100	0.0952	0.0968	0.0978	0.0850 to 0.115	95.2	70.0 to 130	1.67	20.0
BD19776	Arsenic, Total	mg/L	0.0000033	0.000200	0.100	0.0968	0.0977	0.0991	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19776	Barium, Total	mg/L	0.0000242	0.00100	0.100	0.103	0.0991	0.0989	0.0850 to 0.115	103	70.0 to 130	3.86	20.0
BD19776	Beryllium, Total	mg/L	0.0000096	0.000880	0.100	0.104	0.101	0.0960	0.0850 to 0.115	104	70.0 to 130	2.93	20.0
BD19776	Boron, Total	mg/L	0.000015	0.0650	1.00	0.946	0.949	1.03	0.850 to 1.15	94.6	70.0 to 130	0.317	20.0
BD19776	Cadmium, Total	mg/L	0.0000141	0.000147	0.100	0.0943	0.0987	0.0991	0.0850 to 0.115	94.3	70.0 to 130	4.56	20.0
BD19776	Calcium, Total	mg/L	-0.0233	0.152	5.00	4.86	4.85	4.91	4.25 to 5.75	97.2	70.0 to 130	0.206	20.0
BD19776	Chloride	mg/L	-0.134	1.00	10.0	9.87	9.71	9.84	9.00 to 11.0	98.7	80.0 to 120	1.63	20.0
BD19776	Chromium, Total	mg/L	-0.000125	0.000440	0.100	0.0960	0.0968	0.0980	0.0850 to 0.115	96.0	70.0 to 130	0.830	20.0
BD19776	Cobalt, Total	mg/L	-0.0000269	0.000147	0.100	0.0976	0.0987	0.0996	0.0850 to 0.115	97.6	70.0 to 130	1.12	20.0
BD19776	Iron, Total	mg/L	-0.000816	0.0176	0.2	0.193	0.194	0.173	0.170 to 0.230	96.5	70.0 to 130	0.517	20.0
BD19776	Lead, Total	mg/L	-0.0000031	0.000147	0.100	0.113	0.112	0.108	0.0850 to 0.115	113	70.0 to 130	0.889	20.0
BD19776	Lithium, Total	mg/L	0.000606	0.0154	0.200	0.192	0.193	0.196	0.170 to 0.230	96.0	70.0 to 130	0.519	20.0
BD19776	Magnesium, Total	mg/L	-0.0164	0.0462	5.00	4.81	4.84	4.82	4.25 to 5.75	96.2	70.0 to 130	0.622	20.0
BD19776	Manganese, Total	mg/L	0.0000077	0.00033	0.100	0.0946	0.0960	0.0958	0.0850 to 0.115	94.6	70.0 to 130	1.47	20.0
BD19776	Mercury, Total by CVAA	mg/L	0.000178	0.000500	0.004	0.00395	0.00382	0.00380	0.00340 to 0.00460	98.8	70.0 to 130	3.35	20.0
BD19776	Molybdenum, Total	mg/L	0.001	0.0100	0.2	0.196	0.198	0.197	0.170 to 0.230	98.0	70.0 to 130	1.02	20.0
BD19776	Potassium, Total	mg/L	-0.0126	0.367	10.0	9.60	9.76	9.77	8.50 to 11.5	96.0	70.0 to 130	1.65	20.0
BD19776	Selenium, Total	mg/L	0.0000086	0.00100	0.100	0.0989	0.0984	0.0977	0.0850 to 0.115	98.9	70.0 to 130	0.507	20.0
BD19776	Silicon, Total	mg/L	-0.000714	0.0440	1.00	0.977	0.987	1.06	0.850 to 1.15	97.7	70.0 to 130	1.02	20.0
BD19776	Sodium, Total	mg/L	0.00941	0.0880	5.00	4.82	4.82	4.96	4.25 to 5.75	95.3	70.0 to 130	0.00	20.0
BD19776	Sulfate	mg/L	-0.0875	2.0	20.0	19.8	20.3	20.5	18.0 to 22.0	99.0	80.0 to 120	2.49	20.0
BD19776	Thallium, Total	mg/L	-0.0000171	0.000147	0.100	0.110	0.111	0.106	0.0850 to 0.115	110	70.0 to 130	0.905	20.0

**Comments:** Fluoride was performed outside of the analytical holding time.

# Batch QC Summary

**Customer Account:** WMWGREAPFB  
**Sample Date:** 10/25/23 16:55  
**Customer ID:**  
**Delivery Date:** 10/26/23 11:45

**Description:** Greene County Ash Pond Field Blank-2

**Laboratory ID Number:** BD19776

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BD19775	Total Organic Carbon	mg/L	0.128	1.00	10.0	9.96	10.4	23.2		99.6	80.0 to 120	4.32	20.0

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**Comments:** Fluoride was performed outside of the analytical holding time.

## Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 10/25/23 16:55

**Customer ID:**

**Delivery Date:** 10/26/23 11:45

**Description:** Greene County Ash Pond Field Blank-2

**Laboratory ID Number:** BD19776

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20947	Fluoride	mg/L	0.000000	0.0200	2.00	2.99	0.835	2.03	1.80 to 2.20	108	80.0 to 120	0.00	20.0
BD19776	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	1.95	0.009	1.84	1.80 to 2.20	97.5	90.0 to 110	0.00	15.0
BD19775	Solids, Dissolved	mg/L	0.0000	25.0			189	51.0	40.0 to 60.0			2.14	10.0

**Comments:** Fluoride was performed outside of the analytical holding time.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-31

**Location Code:** WMWGREAP  
**Collected:** 10/30/23 14:44  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20089

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	11/3/23 11:25	11/7/23 14:36		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	11/3/23 11:25	11/7/23 14:36		1.015	7.22	mg/L	0.070035	0.406		
* Iron, Total	11/3/23 11:25	11/7/23 14:36		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	11/3/23 11:25	11/7/23 14:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	11/3/23 11:25	11/7/23 14:36		1.015	1.41	mg/L	0.021315	0.406		
* Molybdenum, Total	11/3/23 11:25	11/7/23 14:36		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	11/3/23 11:25	11/7/23 14:36		1	10.3	mg/L				
* Silicon, Total	11/3/23 11:25	11/7/23 14:36		1.015	4.79	mg/L	0.02030	0.25375		
* Sodium, Total	11/3/23 11:25	11/7/23 14:36		1.015	6.48	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	11/2/23 15:25	11/7/23 13:16		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	11/2/23 15:25	11/7/23 13:16		1.015	7.14	mg/L	0.070035	0.406		
* Iron, Dissolved	11/2/23 15:25	11/7/23 13:16		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	11/2/23 15:25	11/7/23 13:16		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	11/2/23 15:25	11/7/23 13:16		1.015	1.52	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	11/2/23 15:25	11/7/23 13:16		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	11/2/23 15:25	11/7/23 13:16		1	10.1	mg/L				
* Silicon, Dissolved	11/2/23 15:25	11/7/23 13:16		1.015	4.71	mg/L	0.02030	0.25375		
* Sodium, Dissolved	11/2/23 15:25	11/7/23 13:16		1.015	6.34	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	11/3/23 11:25	11/3/23 18:46		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	11/3/23 11:25	11/3/23 18:46		1.015	0.00979	mg/L	0.009135	0.05075	J	
* Arsenic, Total	11/3/23 11:25	11/3/23 18:46		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	11/3/23 11:25	11/3/23 18:46		1.015	0.0372	mg/L	0.000508	0.001015		
* Beryllium, Total	11/3/23 11:25	11/3/23 18:46		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	11/3/23 11:25	11/3/23 18:46		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	11/3/23 11:25	11/3/23 18:46		1.015	0.000329	mg/L	0.000203	0.001015	J	
* Cobalt, Total	11/3/23 11:25	11/3/23 18:46		1.015	0.000715	mg/L	0.000068	0.000203		
* Lead, Total	11/3/23 11:25	11/3/23 18:46		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	11/3/23 11:25	11/3/23 18:46		1.015	0.00928	mg/L	0.000152	0.001015		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-31

**Location Code:** WMWGREAP  
**Collected:** 10/30/23 14:44  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20089

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	11/3/23 11:25	11/3/23 18:46		1.015	1.48	mg/L	0.169505	0.5075	
* Selenium, Total	11/3/23 11:25	11/3/23 18:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/3/23 11:25	11/3/23 18:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	11/2/23 15:25	11/3/23 15:27		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	11/2/23 15:25	11/3/23 15:27		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	11/2/23 15:25	11/3/23 15:27		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	11/2/23 15:25	11/3/23 15:27		1.015	0.0318	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/2/23 15:25	11/3/23 15:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/2/23 15:25	11/3/23 15:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/2/23 15:25	11/3/23 15:27		1.015	0.000225	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/2/23 15:25	11/3/23 15:27		1.015	0.000721	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/2/23 15:25	11/3/23 15:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/2/23 15:25	11/3/23 15:27		1.015	0.00699	mg/L	0.000152	0.001015	
* Potassium, Dissolved	11/2/23 15:25	11/3/23 15:27		1.015	1.34	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/2/23 15:25	11/3/23 15:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/2/23 15:25	11/3/23 15:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/7/23 13:27	11/8/23 15:42		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 22:17	11/15/23 22:17		1	0.0258	mg/L	0.02	0.04	J
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	11/7/23 17:56	11/7/23 17:56		1	0.740	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 14:25		1	4.38	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 14:25		1	25.9	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	11/2/23 13:50	11/7/23 13:25		1	52.7	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 14:25		1	25.9	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 14:25		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-31

**Location Code:** WMWGREAP  
**Collected:** 10/30/23 14:44  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20089

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	11/7/23 13:56	11/7/23 13:56		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	11/3/23 09:31	11/3/23 09:31		1	7.37	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 10:02	11/7/23 10:02		1	3.75	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/30/23 14:41	10/30/23 14:41			71.08	uS/cm			FA
pH	10/30/23 14:41	10/30/23 14:41			5.72	SU			FA
Temperature	10/30/23 14:41	10/30/23 14:41			19.00	C			FA
Turbidity	10/30/23 14:41	10/30/23 14:41			2.62	NTU			FA
Sulfide	10/30/23 14:41	10/30/23 14:41			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/30/23 14:44  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-31

**Laboratory ID Number:** BD20089

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD20099	Aluminum, Dissolved	mg/L	0.000413	0.0198	0.100	0.0957	0.0982	0.0995	0.0850 to 0.115	95.7	70.0 to 130	2.58	20.0
BD20098	Aluminum, Total	mg/L	0.000983	0.0198	0.100	0.116	0.115	0.0979	0.0850 to 0.115	95.1	70.0 to 130	0.866	20.0
BD20099	Antimony, Dissolved	mg/L	0.000364	0.00100	0.100	0.103	0.103	0.0947	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD20098	Antimony, Total	mg/L	0.000387	0.00100	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD20099	Arsenic, Dissolved	mg/L	-0.0000009	0.000200	0.100	0.0955	0.0951	0.0979	0.0850 to 0.115	93.5	70.0 to 130	0.420	20.0
BD20098	Arsenic, Total	mg/L	0.0000176	0.000200	0.100	0.0947	0.0962	0.0971	0.0850 to 0.115	92.7	70.0 to 130	1.57	20.0
BD20099	Barium, Dissolved	mg/L	0.0000108	0.00100	0.100	0.210	0.213	0.0975	0.0850 to 0.115	92.0	70.0 to 130	1.42	20.0
BD20098	Barium, Total	mg/L	-0.0000192	0.00100	0.100	0.211	0.215	0.0957	0.0850 to 0.115	84.0	70.0 to 130	1.88	20.0
BD20099	Beryllium, Dissolved	mg/L	0.0000056	0.000880	0.100	0.0988	0.103	0.102	0.0850 to 0.115	98.8	70.0 to 130	4.16	20.0
BD20098	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0971	0.0991	0.100	0.0850 to 0.115	97.1	70.0 to 130	2.04	20.0
BD20099	Boron, Dissolved	mg/L	-0.000794	0.0650	1.00	1.63	1.64	1.10	0.850 to 1.15	106	70.0 to 130	0.612	20.0
BD20098	Boron, Total	mg/L	0.00016	0.0650	1.00	1.58	1.62	1.01	0.850 to 1.15	102	70.0 to 130	2.50	20.0
BD20099	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0994	0.105	0.0850 to 0.115	98.7	70.0 to 130	0.707	20.0
BD20098	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0977	0.0960	0.102	0.0850 to 0.115	97.7	70.0 to 130	1.76	20.0
BD20099	Calcium, Dissolved	mg/L	-0.0586	0.152	5.00	129	128	4.36	4.25 to 5.75	80.0	70.0 to 130	0.778	20.0
BD20098	Calcium, Total	mg/L	-0.0336	0.152	5.00	159	159	4.93	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD20098	Chloride	mg/L	0.0518	1.00	10.0	22.1	22.0	10.2	9.00 to 11.0	93.0	80.0 to 120	0.454	20.0
BD20099	Chromium, Dissolved	mg/L	-0.0000719	0.000440	0.100	0.0989	0.0985	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.405	20.0
BD20098	Chromium, Total	mg/L	-0.0000794	0.000440	0.100	0.0976	0.0967	0.101	0.0850 to 0.115	97.0	70.0 to 130	0.926	20.0
BD20099	Cobalt, Dissolved	mg/L	0.0000018	0.000147	0.100	0.122	0.121	0.107	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BD20098	Cobalt, Total	mg/L	0.0000001	0.000147	0.100	0.121	0.120	0.104	0.0850 to 0.115	97.7	70.0 to 130	0.830	20.0
BD20099	Iron, Dissolved	mg/L	-0.000421	0.0176	0.2	9.78	9.89	0.205	0.170 to 0.230	95.0	70.0 to 130	1.12	20.0
BD20098	Iron, Total	mg/L	-0.000654	0.0176	0.2	12.0	11.7	0.204	0.170 to 0.230	50.0	70.0 to 130	2.53	20.0
BD20099	Lead, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0961	0.103	0.101	0.0850 to 0.115	96.1	70.0 to 130	6.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/30/23 14:44  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-31

**Laboratory ID Number:** BD20089

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD20098	Lead, Total	mg/L	0.0000036	0.000147	0.100	0.0970	0.0994	0.100	0.0850 to 0.115	97.0	70.0 to 130	2.44	20.0
BD20099	Lithium, Dissolved	mg/L	0.000587	0.0154	0.200	0.336	0.339	0.204	0.170 to 0.230	108	70.0 to 130	0.889	20.0
BD20098	Lithium, Total	mg/L	0.000259	0.0154	0.200	0.328	0.335	0.206	0.170 to 0.230	102	70.0 to 130	2.11	20.0
BD20099	Magnesium, Dissolved	mg/L	-0.00878	0.0462	5.00	22.4	22.4	4.26	4.25 to 5.75	116	70.0 to 130	0.00	20.0
BD20098	Magnesium, Total	mg/L	-0.0126	0.0462	5.00	21.6	22.0	5.10	4.25 to 5.75	98.0	70.0 to 130	1.83	20.0
BD20099	Manganese, Dissolved	mg/L	0.0000135	0.00033	0.100	4.49	4.48	0.101	0.0850 to 0.115	100	70.0 to 130	0.223	20.0
BD20098	Manganese, Total	mg/L	0.0000088	0.00033	0.100	4.72	4.59	0.0982	0.0850 to 0.115	220	70.0 to 130	2.79	20.0
BD20094	Mercury, Total by CVAA	mg/L	0.00034	0.000500	0.004	0.00376	0.00396	0.00402	0.00340 to 0.00460	85.7	70.0 to 130	5.18	20.0
BD20099	Molybdenum, Dissolved	mg/L	0.00031	0.0100	0.2	0.211	0.213	0.202	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BD20098	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.212	0.210	0.170 to 0.230	104	70.0 to 130	2.39	20.0
BD20099	Potassium, Dissolved	mg/L	0.00422	0.367	10.0	16.7	17.1	10.6	8.50 to 11.5	102	70.0 to 130	2.37	20.0
BD20098	Potassium, Total	mg/L	-0.0162	0.367	10.0	16.8	16.6	10.1	8.50 to 11.5	91.7	70.0 to 130	1.20	20.0
BD20099	Selenium, Dissolved	mg/L	0.000215	0.00100	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD20098	Selenium, Total	mg/L	0.0000222	0.00100	0.100	0.0989	0.0969	0.102	0.0850 to 0.115	98.9	70.0 to 130	2.04	20.0
BD20099	Silicon, Dissolved	mg/L	0.00091	0.0440	1.00	5.44	5.43	1.03	0.850 to 1.15	114	70.0 to 130	0.184	20.0
BD20098	Silicon, Total	mg/L	0.000484	0.0440	1.00	5.33	5.40	1.05	0.850 to 1.15	103	70.0 to 130	1.30	20.0
BD20099	Sodium, Dissolved	mg/L	0.00144	0.0880	5.00	34.8	35.1	5.01	4.25 to 5.75	116	70.0 to 130	0.858	20.0
BD20098	Sodium, Total	mg/L	0.00322	0.0880	5.00	33.2	33.7	5.12	4.25 to 5.75	98.0	70.0 to 130	1.49	20.0
BD20098	Sulfate	mg/L	-0.0356	2.0	400.0	679	670	20.3	18.0 to 22.0	96.0	80.0 to 120	1.33	20.0
BD20099	Thallium, Dissolved	mg/L	0.0000017	0.000147	0.100	0.0975	0.102	0.101	0.0850 to 0.115	97.5	70.0 to 130	4.51	20.0
BD20098	Thallium, Total	mg/L	0.0000134	0.000147	0.100	0.0970	0.101	0.0992	0.0850 to 0.115	97.0	70.0 to 130	4.04	20.0
BD20097	Total Organic Carbon	mg/L	0.253	1.00	10.0	10.9	11.5	10.3		91.2	80.0 to 120	5.36	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/30/23 14:44  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-31

**Laboratory ID Number:** BD20089

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD20096	Fluoride	mg/L	0.000000	0.0200	2.00	2.26	0.173	2.06	1.80 to 2.20	104	80.0 to 120	0.576	20.0
BD20098	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.01	0.022	1.95	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD20091	Solids, Dissolved	mg/L	1.00	25.0			58.7	51.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-33

**Location Code:** WMWGREAP  
**Collected:** 10/30/23 15:38  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:59

**Laboratory ID Number:** BD20090

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ELH</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	11/3/23 11:25	11/7/23 14:39		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/3/23 11:25	11/7/23 14:39		1.015	2.11	mg/L	0.070035	0.406	
* Iron, Total	11/3/23 11:25	11/7/23 14:39		1.015	0.0342	mg/L	0.008120	0.0406	J
* Lithium, Total	11/3/23 11:25	11/7/23 14:39		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/3/23 11:25	11/7/23 14:39		1.015	2.89	mg/L	0.021315	0.406	
* Molybdenum, Total	11/3/23 11:25	11/7/23 14:39		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	11/3/23 11:25	11/7/23 14:39		1	6.98	mg/L			
* Silicon, Total	11/3/23 11:25	11/7/23 14:39		1.015	3.26	mg/L	0.02030	0.25375	
* Sodium, Total	11/3/23 11:25	11/7/23 14:39		1.015	6.23	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ELH</b>						
* Boron, Dissolved	11/2/23 15:25	11/7/23 13:19		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	11/2/23 15:25	11/7/23 13:19		1.015	2.10	mg/L	0.070035	0.406	
* Iron, Dissolved	11/2/23 15:25	11/7/23 13:19		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	11/2/23 15:25	11/7/23 13:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/2/23 15:25	11/7/23 13:19		1.015	2.93	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	11/2/23 15:25	11/7/23 13:19		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	11/2/23 15:25	11/7/23 13:19		1	6.89	mg/L			
* Silicon, Dissolved	11/2/23 15:25	11/7/23 13:19		1.015	3.22	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/2/23 15:25	11/7/23 13:19		1.015	6.33	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	11/3/23 11:25	11/3/23 18:50		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	11/3/23 11:25	11/3/23 18:50		1.015	0.163	mg/L	0.009135	0.05075	
* Arsenic, Total	11/3/23 11:25	11/3/23 18:50		1.015	0.000169	mg/L	0.000112	0.000203	J
* Barium, Total	11/3/23 11:25	11/3/23 18:50		1.015	0.0764	mg/L	0.000508	0.001015	
* Beryllium, Total	11/3/23 11:25	11/3/23 18:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/3/23 11:25	11/3/23 18:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/3/23 11:25	11/3/23 18:50		1.015	0.000385	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/3/23 11:25	11/3/23 18:50		1.015	0.00108	mg/L	0.000068	0.000203	
* Lead, Total	11/3/23 11:25	11/3/23 18:50		1.015	0.000181	mg/L	0.000068	0.000203	J
* Manganese, Total	11/3/23 11:25	11/3/23 18:50		1.015	0.0153	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-33

**Location Code:** WMWGREAP  
**Collected:** 10/30/23 15:38  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:59

**Laboratory ID Number:** BD20090

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	11/3/23 11:25	11/3/23 18:50		1.015	4.44	mg/L	0.169505	0.5075	
* Selenium, Total	11/3/23 11:25	11/3/23 18:50		1.015	0.000704	mg/L	0.000508	0.001015	J
* Thallium, Total	11/3/23 11:25	11/3/23 18:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	11/2/23 15:25	11/3/23 15:31		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	11/2/23 15:25	11/3/23 15:31		1.015	0.0892	mg/L	0.009135	0.05075	
* Arsenic, Dissolved	11/2/23 15:25	11/3/23 15:31		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	11/2/23 15:25	11/3/23 15:31		1.015	0.0746	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/2/23 15:25	11/3/23 15:31		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/2/23 15:25	11/3/23 15:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/2/23 15:25	11/3/23 15:31		1.015	0.000233	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/2/23 15:25	11/3/23 15:31		1.015	0.00109	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/2/23 15:25	11/3/23 15:31		1.015	0.000179	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	11/2/23 15:25	11/3/23 15:31		1.015	0.0171	mg/L	0.000152	0.001015	
* Potassium, Dissolved	11/2/23 15:25	11/3/23 15:31		1.015	4.50	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/2/23 15:25	11/3/23 15:31		1.015	0.000551	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	11/2/23 15:25	11/3/23 15:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/7/23 13:27	11/8/23 15:45		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 22:41	11/15/23 22:41		1	0.0640	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	11/7/23 17:57	11/7/23 17:57		1	3.30	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 14:25		1	4.10	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 14:25		1	2.42	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	11/2/23 13:50	11/7/23 13:25		1	58.7	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 14:25		1	2.42	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 14:25		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-33

**Location Code:** WMWGREAP  
**Collected:** 10/30/23 15:38  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:59

**Laboratory ID Number:** BD20090

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	11/7/23 14:14	11/7/23 14:14		1	1.22	mg/L	1.00	2	J
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	11/3/23 09:32	11/3/23 09:32		1	3.92	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 10:03	11/7/23 10:03		1	17.6	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/30/23 15:35	10/30/23 15:35			76.50	uS/cm			FA
pH	10/30/23 15:35	10/30/23 15:35			4.63	SU			FA
Temperature	10/30/23 15:35	10/30/23 15:35			19.27	C			FA
Turbidity	10/30/23 15:35	10/30/23 15:35			1.94	NTU			FA
Sulfide	10/30/23 15:35	10/30/23 15:35			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/30/23 15:38  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:59

**Description:** Greene County Ash Pond - MW-33

**Laboratory ID Number:** BD20090

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD20099	Aluminum, Dissolved	mg/L	0.000413	0.0198	0.100	0.0957	0.0982	0.0995	0.0850 to 0.115	95.7	70.0 to 130	2.58	20.0	
BD20098	Aluminum, Total	mg/L	0.000983	0.0198	0.100	0.116	0.115	0.0979	0.0850 to 0.115	95.1	70.0 to 130	0.866	20.0	
BD20099	Antimony, Dissolved	mg/L	0.000364	0.00100	0.100	0.103	0.103	0.0947	0.0850 to 0.115	103	70.0 to 130	0.00	20.0	
BD20098	Antimony, Total	mg/L	0.000387	0.00100	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0	
BD20099	Arsenic, Dissolved	mg/L	-0.0000009	0.000200	0.100	0.0955	0.0951	0.0979	0.0850 to 0.115	93.5	70.0 to 130	0.420	20.0	
BD20098	Arsenic, Total	mg/L	0.0000176	0.000200	0.100	0.0947	0.0962	0.0971	0.0850 to 0.115	92.7	70.0 to 130	1.57	20.0	
BD20099	Barium, Dissolved	mg/L	0.0000108	0.00100	0.100	0.210	0.213	0.0975	0.0850 to 0.115	92.0	70.0 to 130	1.42	20.0	
BD20098	Barium, Total	mg/L	-0.0000192	0.00100	0.100	0.211	0.215	0.0957	0.0850 to 0.115	84.0	70.0 to 130	1.88	20.0	
BD20099	Beryllium, Dissolved	mg/L	0.0000056	0.000880	0.100	0.0988	0.103	0.102	0.0850 to 0.115	98.8	70.0 to 130	4.16	20.0	
BD20098	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0971	0.0991	0.100	0.0850 to 0.115	97.1	70.0 to 130	2.04	20.0	
BD20099	Boron, Dissolved	mg/L	-0.000794	0.0650	1.00	1.63	1.64	1.10	0.850 to 1.15	106	70.0 to 130	0.612	20.0	
BD20098	Boron, Total	mg/L	0.00016	0.0650	1.00	1.58	1.62	1.01	0.850 to 1.15	102	70.0 to 130	2.50	20.0	
BD20099	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0994	0.105	0.0850 to 0.115	98.7	70.0 to 130	0.707	20.0	
BD20098	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0977	0.0960	0.102	0.0850 to 0.115	97.7	70.0 to 130	1.76	20.0	
BD20099	Calcium, Dissolved	mg/L	-0.0586	0.152	5.00	129	128	4.36	4.25 to 5.75	80.0	70.0 to 130	0.778	20.0	
BD20098	Calcium, Total	mg/L	-0.0336	0.152	5.00	159	159	4.93	4.25 to 5.75	100	70.0 to 130	0.00	20.0	
BD20098	Chloride	mg/L	0.0518	1.00	10.0	22.1	22.0	10.2	9.00 to 11.0	93.0	80.0 to 120	0.454	20.0	
BD20099	Chromium, Dissolved	mg/L	-0.0000719	0.000440	0.100	0.0989	0.0985	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.405	20.0	
BD20098	Chromium, Total	mg/L	-0.0000794	0.000440	0.100	0.0976	0.0967	0.101	0.0850 to 0.115	97.0	70.0 to 130	0.926	20.0	
BD20099	Cobalt, Dissolved	mg/L	0.0000018	0.000147	0.100	0.122	0.121	0.107	0.0850 to 0.115	102	70.0 to 130	0.823	20.0	
BD20098	Cobalt, Total	mg/L	0.0000001	0.000147	0.100	0.121	0.120	0.104	0.0850 to 0.115	97.7	70.0 to 130	0.830	20.0	
BD20099	Iron, Dissolved	mg/L	-0.000421	0.0176	0.2	9.78	9.89	0.205	0.170 to 0.230	95.0	70.0 to 130	1.12	20.0	
BD20098	Iron, Total	mg/L	-0.000654	0.0176	0.2	12.0	11.7	0.204	0.170 to 0.230	50.0	70.0 to 130	2.53	20.0	
BD20099	Lead, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0961	0.103	0.101	0.0850 to 0.115	96.1	70.0 to 130	6.93	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/30/23 15:38  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:59

**Description:** Greene County Ash Pond - MW-33

**Laboratory ID Number:** BD20090

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BD20098	Lead, Total	mg/L	0.0000036	0.000147	0.100	0.0970	0.0994	0.100	0.0850 to 0.115	97.0	70.0 to 130	2.44	20.0
BD20099	Lithium, Dissolved	mg/L	0.000587	0.0154	0.200	0.336	0.339	0.204	0.170 to 0.230	108	70.0 to 130	0.889	20.0
BD20098	Lithium, Total	mg/L	0.000259	0.0154	0.200	0.328	0.335	0.206	0.170 to 0.230	102	70.0 to 130	2.11	20.0
BD20099	Magnesium, Dissolved	mg/L	-0.00878	0.0462	5.00	22.4	22.4	4.26	4.25 to 5.75	116	70.0 to 130	0.00	20.0
BD20098	Magnesium, Total	mg/L	-0.0126	0.0462	5.00	21.6	22.0	5.10	4.25 to 5.75	98.0	70.0 to 130	1.83	20.0
BD20099	Manganese, Dissolved	mg/L	0.0000135	0.00033	0.100	4.49	4.48	0.101	0.0850 to 0.115	100	70.0 to 130	0.223	20.0
BD20098	Manganese, Total	mg/L	0.0000088	0.00033	0.100	4.72	4.59	0.0982	0.0850 to 0.115	220	70.0 to 130	2.79	20.0
BD20094	Mercury, Total by CVAA	mg/L	0.00034	0.000500	0.004	0.00376	0.00396	0.00402	0.00340 to 0.00460	85.7	70.0 to 130	5.18	20.0
BD20099	Molybdenum, Dissolved	mg/L	0.00031	0.0100	0.2	0.211	0.213	0.202	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BD20098	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.212	0.210	0.170 to 0.230	104	70.0 to 130	2.39	20.0
BD20099	Potassium, Dissolved	mg/L	0.00422	0.367	10.0	16.7	17.1	10.6	8.50 to 11.5	102	70.0 to 130	2.37	20.0
BD20098	Potassium, Total	mg/L	-0.0162	0.367	10.0	16.8	16.6	10.1	8.50 to 11.5	91.7	70.0 to 130	1.20	20.0
BD20099	Selenium, Dissolved	mg/L	0.000215	0.00100	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD20098	Selenium, Total	mg/L	0.0000222	0.00100	0.100	0.0989	0.0969	0.102	0.0850 to 0.115	98.9	70.0 to 130	2.04	20.0
BD20099	Silicon, Dissolved	mg/L	0.00091	0.0440	1.00	5.44	5.43	1.03	0.850 to 1.15	114	70.0 to 130	0.184	20.0
BD20098	Silicon, Total	mg/L	0.000484	0.0440	1.00	5.33	5.40	1.05	0.850 to 1.15	103	70.0 to 130	1.30	20.0
BD20099	Sodium, Dissolved	mg/L	0.00144	0.0880	5.00	34.8	35.1	5.01	4.25 to 5.75	116	70.0 to 130	0.858	20.0
BD20098	Sodium, Total	mg/L	0.00322	0.0880	5.00	33.2	33.7	5.12	4.25 to 5.75	98.0	70.0 to 130	1.49	20.0
BD20098	Sulfate	mg/L	-0.0356	2.0	400.0	679	670	20.3	18.0 to 22.0	96.0	80.0 to 120	1.33	20.0
BD20099	Thallium, Dissolved	mg/L	0.0000017	0.000147	0.100	0.0975	0.102	0.101	0.0850 to 0.115	97.5	70.0 to 130	4.51	20.0
BD20098	Thallium, Total	mg/L	0.0000134	0.000147	0.100	0.0970	0.101	0.0992	0.0850 to 0.115	97.0	70.0 to 130	4.04	20.0
BD20097	Total Organic Carbon	mg/L	0.253	1.00	10.0	10.9	11.5	10.3		91.2	80.0 to 120	5.36	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/30/23 15:38  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:59

**Description:** Greene County Ash Pond - MW-33

**Laboratory ID Number:** BD20090

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD20096	Fluoride	mg/L	0.000000	0.0200	2.00	2.26	0.173	2.06	1.80 to 2.20	104	80.0 to 120	0.576	20.0
BD20098	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.01	0.022	1.95	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD20091	Solids, Dissolved	mg/L	1.00	25.0			58.7	51.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-32

**Location Code:** WMWGREAP  
**Collected:** 10/30/23 16:29  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:59

**Laboratory ID Number:** BD20091

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	11/3/23 11:25	11/7/23 14:42		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	11/3/23 11:25	11/7/23 14:42		1.015	10.5	mg/L	0.070035	0.406		
* Iron, Total	11/3/23 11:25	11/7/23 14:42		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	11/3/23 11:25	11/7/23 14:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	11/3/23 11:25	11/7/23 14:42		1.015	0.758	mg/L	0.021315	0.406		
* Molybdenum, Total	11/3/23 11:25	11/7/23 14:42		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	11/3/23 11:25	11/7/23 14:42		1	12.1	mg/L				
* Silicon, Total	11/3/23 11:25	11/7/23 14:42		1.015	5.64	mg/L	0.02030	0.25375		
* Sodium, Total	11/3/23 11:25	11/7/23 14:42		1.015	4.18	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>								
* Boron, Dissolved	11/2/23 15:25	11/7/23 13:22		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	11/2/23 15:25	11/7/23 13:22		1.015	10.5	mg/L	0.070035	0.406		
* Iron, Dissolved	11/2/23 15:25	11/7/23 13:22		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	11/2/23 15:25	11/7/23 13:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	11/2/23 15:25	11/7/23 13:22		1.015	0.735	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	11/2/23 15:25	11/7/23 13:22		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	11/2/23 15:25	11/7/23 13:22		1	12.1	mg/L				
* Silicon, Dissolved	11/2/23 15:25	11/7/23 13:22		1.015	5.64	mg/L	0.02030	0.25375		
* Sodium, Dissolved	11/2/23 15:25	11/7/23 13:22		1.015	4.14	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	11/3/23 11:25	11/3/23 18:53		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	11/3/23 11:25	11/3/23 18:53		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	11/3/23 11:25	11/3/23 18:53		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	11/3/23 11:25	11/3/23 18:53		1.015	0.0134	mg/L	0.000508	0.001015		
* Beryllium, Total	11/3/23 11:25	11/3/23 18:53		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	11/3/23 11:25	11/3/23 18:53		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	11/3/23 11:25	11/3/23 18:53		1.015	0.000409	mg/L	0.000203	0.001015	J	
* Cobalt, Total	11/3/23 11:25	11/3/23 18:53		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	11/3/23 11:25	11/3/23 18:53		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	11/3/23 11:25	11/3/23 18:53		1.015	0.000162	mg/L	0.000152	0.001015	J	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-32

**Location Code:** WMWGREAP  
**Collected:** 10/30/23 16:29  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:59

**Laboratory ID Number:** BD20091

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	11/3/23 11:25	11/3/23 18:53		1.015	0.721	mg/L	0.169505	0.5075	
* Selenium, Total	11/3/23 11:25	11/3/23 18:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/3/23 11:25	11/3/23 18:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	11/2/23 15:25	11/3/23 15:34		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	11/2/23 15:25	11/3/23 15:34		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	11/2/23 15:25	11/3/23 15:34		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	11/2/23 15:25	11/3/23 15:34		1.015	0.0133	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/2/23 15:25	11/3/23 15:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/2/23 15:25	11/3/23 15:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/2/23 15:25	11/3/23 15:34		1.015	0.000300	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/2/23 15:25	11/3/23 15:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	11/2/23 15:25	11/3/23 15:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/2/23 15:25	11/3/23 15:34		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Dissolved	11/2/23 15:25	11/3/23 15:34		1.015	0.743	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/2/23 15:25	11/3/23 15:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/2/23 15:25	11/3/23 15:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/7/23 13:27	11/8/23 15:47		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 23:04	11/15/23 23:04		1	0.0401	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	11/7/23 18:03	11/7/23 18:03		1	0.331	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/8/23 08:25	11/8/23 14:25		1	4.48	SU		2.00	
* Alkalinity	11/8/23 08:25	11/8/23 14:25		1	30.2	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	11/2/23 13:50	11/7/23 13:25		1	58.7	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 14:25		1	30.2	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/8/23 08:25	11/8/23 14:25		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-32

**Location Code:** WMWGREAP  
**Collected:** 10/30/23 16:29  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:59

**Laboratory ID Number:** BD20091

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	11/7/23 14:28	11/7/23 14:28		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	11/3/23 09:33	11/3/23 09:33		1	3.92	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 10:04	11/7/23 10:04		1	3.36	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/30/23 16:26	10/30/23 16:26			60.39	uS/cm			FA
pH	10/30/23 16:26	10/30/23 16:26			5.92	SU			FA
Temperature	10/30/23 16:26	10/30/23 16:26			20.17	C			FA
Turbidity	10/30/23 16:26	10/30/23 16:26			1.42	NTU			FA
Sulfide	10/30/23 16:26	10/30/23 16:26			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/30/23 16:29  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:59

**Description:** Greene County Ash Pond - MW-32

**Laboratory ID Number:** BD20091

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD20099	Aluminum, Dissolved	mg/L	0.000413	0.0198	0.100	0.0957	0.0982	0.0995	0.0850 to 0.115	95.7	70.0 to 130	2.58	20.0
BD20098	Aluminum, Total	mg/L	0.000983	0.0198	0.100	0.116	0.115	0.0979	0.0850 to 0.115	95.1	70.0 to 130	0.866	20.0
BD20099	Antimony, Dissolved	mg/L	0.000364	0.00100	0.100	0.103	0.103	0.0947	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD20098	Antimony, Total	mg/L	0.000387	0.00100	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD20099	Arsenic, Dissolved	mg/L	-0.0000009	0.000200	0.100	0.0955	0.0951	0.0979	0.0850 to 0.115	93.5	70.0 to 130	0.420	20.0
BD20098	Arsenic, Total	mg/L	0.0000176	0.000200	0.100	0.0947	0.0962	0.0971	0.0850 to 0.115	92.7	70.0 to 130	1.57	20.0
BD20099	Barium, Dissolved	mg/L	0.0000108	0.00100	0.100	0.210	0.213	0.0975	0.0850 to 0.115	92.0	70.0 to 130	1.42	20.0
BD20098	Barium, Total	mg/L	-0.0000192	0.00100	0.100	0.211	0.215	0.0957	0.0850 to 0.115	84.0	70.0 to 130	1.88	20.0
BD20099	Beryllium, Dissolved	mg/L	0.0000056	0.000880	0.100	0.0988	0.103	0.102	0.0850 to 0.115	98.8	70.0 to 130	4.16	20.0
BD20098	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0971	0.0991	0.100	0.0850 to 0.115	97.1	70.0 to 130	2.04	20.0
BD20099	Boron, Dissolved	mg/L	-0.000794	0.0650	1.00	1.63	1.64	1.10	0.850 to 1.15	106	70.0 to 130	0.612	20.0
BD20098	Boron, Total	mg/L	0.00016	0.0650	1.00	1.58	1.62	1.01	0.850 to 1.15	102	70.0 to 130	2.50	20.0
BD20099	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0994	0.105	0.0850 to 0.115	98.7	70.0 to 130	0.707	20.0
BD20098	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0977	0.0960	0.102	0.0850 to 0.115	97.7	70.0 to 130	1.76	20.0
BD20099	Calcium, Dissolved	mg/L	-0.0586	0.152	5.00	129	128	4.36	4.25 to 5.75	80.0	70.0 to 130	0.778	20.0
BD20098	Calcium, Total	mg/L	-0.0336	0.152	5.00	159	159	4.93	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD20098	Chloride	mg/L	0.0518	1.00	10.0	22.1	22.0	10.2	9.00 to 11.0	93.0	80.0 to 120	0.454	20.0
BD20099	Chromium, Dissolved	mg/L	-0.0000719	0.000440	0.100	0.0989	0.0985	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.405	20.0
BD20098	Chromium, Total	mg/L	-0.0000794	0.000440	0.100	0.0976	0.0967	0.101	0.0850 to 0.115	97.0	70.0 to 130	0.926	20.0
BD20099	Cobalt, Dissolved	mg/L	0.0000018	0.000147	0.100	0.122	0.121	0.107	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BD20098	Cobalt, Total	mg/L	0.0000001	0.000147	0.100	0.121	0.120	0.104	0.0850 to 0.115	97.7	70.0 to 130	0.830	20.0
BD20099	Iron, Dissolved	mg/L	-0.000421	0.0176	0.2	9.78	9.89	0.205	0.170 to 0.230	95.0	70.0 to 130	1.12	20.0
BD20098	Iron, Total	mg/L	-0.000654	0.0176	0.2	12.0	11.7	0.204	0.170 to 0.230	50.0	70.0 to 130	2.53	20.0
BD20099	Lead, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0961	0.103	0.101	0.0850 to 0.115	96.1	70.0 to 130	6.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/30/23 16:29  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:59

**Description:** Greene County Ash Pond - MW-32

**Laboratory ID Number:** BD20091

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD20098	Lead, Total	mg/L	0.0000036	0.000147	0.100	0.0970	0.0994	0.100	0.0850 to 0.115	97.0	70.0 to 130	2.44	20.0
BD20099	Lithium, Dissolved	mg/L	0.000587	0.0154	0.200	0.336	0.339	0.204	0.170 to 0.230	108	70.0 to 130	0.889	20.0
BD20098	Lithium, Total	mg/L	0.000259	0.0154	0.200	0.328	0.335	0.206	0.170 to 0.230	102	70.0 to 130	2.11	20.0
BD20099	Magnesium, Dissolved	mg/L	-0.00878	0.0462	5.00	22.4	22.4	4.26	4.25 to 5.75	116	70.0 to 130	0.00	20.0
BD20098	Magnesium, Total	mg/L	-0.0126	0.0462	5.00	21.6	22.0	5.10	4.25 to 5.75	98.0	70.0 to 130	1.83	20.0
BD20099	Manganese, Dissolved	mg/L	0.0000135	0.00033	0.100	4.49	4.48	0.101	0.0850 to 0.115	100	70.0 to 130	0.223	20.0
BD20098	Manganese, Total	mg/L	0.0000088	0.00033	0.100	4.72	4.59	0.0982	0.0850 to 0.115	220	70.0 to 130	2.79	20.0
BD20094	Mercury, Total by CVAA	mg/L	0.00034	0.000500	0.004	0.00376	0.00396	0.00402	0.00340 to 0.00460	85.7	70.0 to 130	5.18	20.0
BD20099	Molybdenum, Dissolved	mg/L	0.00031	0.0100	0.2	0.211	0.213	0.202	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BD20098	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.212	0.210	0.170 to 0.230	104	70.0 to 130	2.39	20.0
BD20099	Potassium, Dissolved	mg/L	0.00422	0.367	10.0	16.7	17.1	10.6	8.50 to 11.5	102	70.0 to 130	2.37	20.0
BD20098	Potassium, Total	mg/L	-0.0162	0.367	10.0	16.8	16.6	10.1	8.50 to 11.5	91.7	70.0 to 130	1.20	20.0
BD20099	Selenium, Dissolved	mg/L	0.000215	0.00100	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD20098	Selenium, Total	mg/L	0.0000222	0.00100	0.100	0.0989	0.0969	0.102	0.0850 to 0.115	98.9	70.0 to 130	2.04	20.0
BD20099	Silicon, Dissolved	mg/L	0.00091	0.0440	1.00	5.44	5.43	1.03	0.850 to 1.15	114	70.0 to 130	0.184	20.0
BD20098	Silicon, Total	mg/L	0.000484	0.0440	1.00	5.33	5.40	1.05	0.850 to 1.15	103	70.0 to 130	1.30	20.0
BD20099	Sodium, Dissolved	mg/L	0.00144	0.0880	5.00	34.8	35.1	5.01	4.25 to 5.75	116	70.0 to 130	0.858	20.0
BD20098	Sodium, Total	mg/L	0.00322	0.0880	5.00	33.2	33.7	5.12	4.25 to 5.75	98.0	70.0 to 130	1.49	20.0
BD20098	Sulfate	mg/L	-0.0356	2.0	400.0	679	670	20.3	18.0 to 22.0	96.0	80.0 to 120	1.33	20.0
BD20099	Thallium, Dissolved	mg/L	0.0000017	0.000147	0.100	0.0975	0.102	0.101	0.0850 to 0.115	97.5	70.0 to 130	4.51	20.0
BD20098	Thallium, Total	mg/L	0.0000134	0.000147	0.100	0.0970	0.101	0.0992	0.0850 to 0.115	97.0	70.0 to 130	4.04	20.0
BD20097	Total Organic Carbon	mg/L	0.253	1.00	10.0	10.9	11.5	10.3		91.2	80.0 to 120	5.36	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/30/23 16:29  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:59

**Description:** Greene County Ash Pond - MW-32

**Laboratory ID Number:** BD20091

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20089	Alkalinity	mg CaCO3/L					24.9	51.4	45.0 to 55.0			3.94	10.0
BD20096	Fluoride	mg/L	0.000000	0.0200	2.00	2.26	0.173	2.06	1.80 to 2.20	104	80.0 to 120	0.576	20.0
BD20098	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.01	0.022	1.95	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD20091	Solids, Dissolved	mg/L	1.00	25.0			58.7	51.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-1

**Location Code:** WMWGREAPFB  
**Collected:** 10/30/23 16:55  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:59

**Laboratory ID Number:** BD20092

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	11/3/23 11:25	11/7/23 14:45		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/3/23 11:25	11/7/23 14:45		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	11/3/23 11:25	11/7/23 14:45		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	11/3/23 11:25	11/7/23 14:45		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/3/23 11:25	11/7/23 14:45		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	11/3/23 11:25	11/7/23 14:45		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	11/3/23 11:25	11/7/23 14:45		1	Not Detected	mg/L			
* Silicon, Total	11/3/23 11:25	11/7/23 14:45		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	11/3/23 11:25	11/7/23 14:45		1.015	Not Detected	mg/L	0.04060	0.406	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	11/3/23 11:25	11/3/23 18:57		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	11/3/23 11:25	11/3/23 18:57		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	11/3/23 11:25	11/3/23 18:57		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	11/3/23 11:25	11/3/23 18:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	11/3/23 11:25	11/3/23 18:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/3/23 11:25	11/3/23 18:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/3/23 11:25	11/3/23 18:57		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	11/3/23 11:25	11/3/23 18:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	11/3/23 11:25	11/3/23 18:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/3/23 11:25	11/3/23 18:57		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	11/3/23 11:25	11/3/23 18:57		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	11/3/23 11:25	11/3/23 18:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/3/23 11:25	11/3/23 18:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/7/23 13:27	11/8/23 15:49		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 23:27	11/15/23 23:27		1	Not Detected	mg/L	0.02	0.04	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	11/7/23 18:05	11/7/23 18:05		1	Not Detected	mg/L as N	0.20	0.3	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-1

**Location Code:** WMWGREAPFB  
**Collected:** 10/30/23 16:55  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:59

**Laboratory ID Number:** BD20092

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	11/2/23 15:00	11/7/23 15:15		1	Not Detected	mg/L		25	U
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	11/7/23 14:43	11/7/23 14:43		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500CI E</b>		<b>Analyst: JCC</b>							
* Chloride	11/3/23 09:35	11/3/23 09:35		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 10:05	11/7/23 10:05		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**



# Batch QC Summary

**Customer Account:** WMWGREAPFB  
**Sample Date:** 10/30/23 16:55  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:59

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD20092

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD20098	Aluminum, Total	mg/L	0.000983	0.0198	0.100	0.116	0.115	0.0979	0.0850 to 0.115	95.1	70.0 to 130	0.866	20.0
BD20098	Antimony, Total	mg/L	0.000387	0.00100	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD20098	Arsenic, Total	mg/L	0.0000176	0.000200	0.100	0.0947	0.0962	0.0971	0.0850 to 0.115	92.7	70.0 to 130	1.57	20.0
BD20098	Barium, Total	mg/L	-0.0000192	0.00100	0.100	0.211	0.215	0.0957	0.0850 to 0.115	84.0	70.0 to 130	1.88	20.0
BD20098	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0971	0.0991	0.100	0.0850 to 0.115	97.1	70.0 to 130	2.04	20.0
BD20098	Boron, Total	mg/L	0.00016	0.0650	1.00	1.58	1.62	1.01	0.850 to 1.15	102	70.0 to 130	2.50	20.0
BD20098	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0977	0.0960	0.102	0.0850 to 0.115	97.7	70.0 to 130	1.76	20.0
BD20098	Calcium, Total	mg/L	-0.0336	0.152	5.00	159	159	4.93	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD20098	Chloride	mg/L	0.0518	1.00	10.0	22.1	22.0	10.2	9.00 to 11.0	93.0	80.0 to 120	0.454	20.0
BD20098	Chromium, Total	mg/L	-0.0000794	0.000440	0.100	0.0976	0.0967	0.101	0.0850 to 0.115	97.0	70.0 to 130	0.926	20.0
BD20098	Cobalt, Total	mg/L	0.0000001	0.000147	0.100	0.121	0.120	0.104	0.0850 to 0.115	97.7	70.0 to 130	0.830	20.0
BD20098	Iron, Total	mg/L	-0.000654	0.0176	0.2	12.0	11.7	0.204	0.170 to 0.230	50.0	70.0 to 130	2.53	20.0
BD20098	Lead, Total	mg/L	0.0000036	0.000147	0.100	0.0970	0.0994	0.100	0.0850 to 0.115	97.0	70.0 to 130	2.44	20.0
BD20098	Lithium, Total	mg/L	0.000259	0.0154	0.200	0.328	0.335	0.206	0.170 to 0.230	102	70.0 to 130	2.11	20.0
BD20098	Magnesium, Total	mg/L	-0.0126	0.0462	5.00	21.6	22.0	5.10	4.25 to 5.75	98.0	70.0 to 130	1.83	20.0
BD20098	Manganese, Total	mg/L	0.0000088	0.00033	0.100	4.72	4.59	0.0982	0.0850 to 0.115	220	70.0 to 130	2.79	20.0
BD20094	Mercury, Total by CVAA	mg/L	0.00034	0.000500	0.004	0.00376	0.00396	0.00402	0.00340 to 0.00460	85.7	70.0 to 130	5.18	20.0
BD20098	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.212	0.210	0.170 to 0.230	104	70.0 to 130	2.39	20.0
BD20098	Potassium, Total	mg/L	-0.0162	0.367	10.0	16.8	16.6	10.1	8.50 to 11.5	91.7	70.0 to 130	1.20	20.0
BD20098	Selenium, Total	mg/L	0.0000222	0.00100	0.100	0.0989	0.0969	0.102	0.0850 to 0.115	98.9	70.0 to 130	2.04	20.0
BD20098	Silicon, Total	mg/L	0.000484	0.0440	1.00	5.33	5.40	1.05	0.850 to 1.15	103	70.0 to 130	1.30	20.0
BD20098	Sodium, Total	mg/L	0.00322	0.0880	5.00	33.2	33.7	5.12	4.25 to 5.75	98.0	70.0 to 130	1.49	20.0
BD20098	Sulfate	mg/L	-0.0356	2.0	400.0	679	670	20.3	18.0 to 22.0	96.0	80.0 to 120	1.33	20.0
BD20098	Thallium, Total	mg/L	0.0000134	0.000147	0.100	0.0970	0.101	0.0992	0.0850 to 0.115	97.0	70.0 to 130	4.04	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB  
**Sample Date:** 10/30/23 16:55  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:59

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD20092

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BD20097	Total Organic Carbon	mg/L	0.253	1.00	10.0	10.9	11.5	10.3		91.2	80.0 to 120	5.36	20.0

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**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 10/30/23 16:55

**Customer ID:**

**Delivery Date:** 11/2/23 11:59

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD20092

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD20096	Fluoride	mg/L	0.000000	0.0200	2.00	2.26	0.173	2.06	1.80 to 2.20	104	80.0 to 120	0.576	20.0
BD20098	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.01	0.022	1.95	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD20101	Solids, Dissolved	mg/L	2.00	25.0			449	56.0	40.0 to 60.0			0.666	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-44H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 10:01  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20093

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ELH</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	11/3/23 11:25	11/7/23 14:49		1.015	0.182	mg/L	0.030000	0.1015	
* Calcium, Total	11/3/23 11:25	11/7/23 17:41		10.15	144	mg/L	0.70035	4.06	
* Iron, Total	11/3/23 11:25	11/7/23 17:41		10.15	5.29	mg/L	0.08120	0.406	
* Lithium, Total	11/3/23 11:25	11/7/23 14:49		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/3/23 11:25	11/7/23 14:49		1.015	14.1	mg/L	0.021315	0.406	
* Molybdenum, Total	11/3/23 11:25	11/7/23 14:49		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	11/3/23 11:25	11/7/23 14:49		1	11.4	mg/L			
* Silicon, Total	11/3/23 11:25	11/7/23 14:49		1.015	5.35	mg/L	0.02030	0.25375	
* Sodium, Total	11/3/23 11:25	11/7/23 14:49		1.015	24.3	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ELH</b>						
* Boron, Dissolved	11/2/23 15:25	11/7/23 13:26		1.015	0.181	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/2/23 15:25	11/7/23 16:40		10.15	131	mg/L	0.70035	4.06	
* Iron, Dissolved	11/2/23 15:25	11/7/23 16:40		10.15	4.88	mg/L	0.08120	0.406	
* Lithium, Dissolved	11/2/23 15:25	11/7/23 13:26		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/2/23 15:25	11/7/23 13:26		1.015	14.0	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	11/2/23 15:25	11/7/23 13:26		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	11/2/23 15:25	11/7/23 13:26		1	11.2	mg/L			
* Silicon, Dissolved	11/2/23 15:25	11/7/23 13:26		1.015	5.22	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/2/23 15:25	11/7/23 13:26		1.015	24.2	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	11/3/23 11:25	11/3/23 19:01		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	11/3/23 11:25	11/3/23 19:01		1.015	0.0671	mg/L	0.009135	0.05075	
* Arsenic, Total	11/3/23 11:25	11/3/23 19:01		1.015	0.00179	mg/L	0.000112	0.000203	
* Barium, Total	11/3/23 11:25	11/3/23 19:01		1.015	0.0482	mg/L	0.000508	0.001015	
* Beryllium, Total	11/3/23 11:25	11/3/23 19:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/3/23 11:25	11/3/23 19:01		1.015	0.000136	mg/L	0.000068	0.000203	J
* Chromium, Total	11/3/23 11:25	11/3/23 19:01		1.015	0.000354	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/3/23 11:25	11/3/23 19:01		1.015	0.251	mg/L	0.000068	0.000203	
* Lead, Total	11/3/23 11:25	11/3/23 19:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/3/23 11:25	11/7/23 16:43		10.15	6.32	mg/L	0.001522	0.01015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-44H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 10:01  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20093

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	11/3/23 11:25	11/3/23 19:01		1.015	2.81	mg/L	0.169505	0.5075	
* Selenium, Total	11/3/23 11:25	11/3/23 19:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/3/23 11:25	11/3/23 19:01		1.015	0.0000869	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	11/2/23 15:25	11/3/23 15:38		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	11/2/23 15:25	11/3/23 15:38		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	11/2/23 15:25	11/3/23 15:38		1.015	0.00175	mg/L	0.000112	0.000203	
* Barium, Dissolved	11/2/23 15:25	11/3/23 15:38		1.015	0.0478	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/2/23 15:25	11/3/23 15:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/2/23 15:25	11/3/23 15:38		1.015	0.0000992	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	11/2/23 15:25	11/3/23 15:38		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/2/23 15:25	11/3/23 15:38		1.015	0.242	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/2/23 15:25	11/3/23 15:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/2/23 15:25	11/7/23 15:47		10.15	6.45	mg/L	0.001522	0.01015	
* Potassium, Dissolved	11/2/23 15:25	11/3/23 15:38		1.015	2.81	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/2/23 15:25	11/3/23 15:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/2/23 15:25	11/3/23 15:38		1.015	0.0000902	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/7/23 13:27	11/8/23 15:52		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 23:51	11/15/23 23:51		1	0.0705	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	11/7/23 18:07	11/7/23 18:07		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/14/23 08:30	11/14/23 08:45		1	4.50	SU		2	
* Alkalinity	11/14/23 08:30	11/14/23 08:45		1	99.0	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	11/2/23 15:00	11/7/23 15:15		1	549	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 08:45		1	99.0	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 08:45		1	Not Detected	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-44H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 10:01  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20093

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	11/7/23 14:58	11/7/23 14:58		1	1.77	mg/L	1.00	2	J
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	11/3/23 09:36	11/3/23 09:36		1	12.2	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 10:16	11/7/23 10:16		16	297	mg/L	9.6	32	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/31/23 09:58	10/31/23 09:58			735.38	uS/cm			FA
pH	10/31/23 09:58	10/31/23 09:58			6.20	SU			FA
Temperature	10/31/23 09:58	10/31/23 09:58			19.75	C			FA
Turbidity	10/31/23 09:58	10/31/23 09:58			5.87	NTU			FA
Sulfide	10/31/23 09:58	10/31/23 09:58			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 10:01  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-44H

**Laboratory ID Number:** BD20093

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD20099	Aluminum, Dissolved	mg/L	0.000413	0.0198	0.100	0.0957	0.0982	0.0995	0.0850 to 0.115	95.7	70.0 to 130	2.58	20.0	
BD20098	Aluminum, Total	mg/L	0.000983	0.0198	0.100	0.116	0.115	0.0979	0.0850 to 0.115	95.1	70.0 to 130	0.866	20.0	
BD20099	Antimony, Dissolved	mg/L	0.000364	0.00100	0.100	0.103	0.103	0.0947	0.0850 to 0.115	103	70.0 to 130	0.00	20.0	
BD20098	Antimony, Total	mg/L	0.000387	0.00100	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0	
BD20099	Arsenic, Dissolved	mg/L	-0.0000009	0.000200	0.100	0.0955	0.0951	0.0979	0.0850 to 0.115	93.5	70.0 to 130	0.420	20.0	
BD20098	Arsenic, Total	mg/L	0.0000176	0.000200	0.100	0.0947	0.0962	0.0971	0.0850 to 0.115	92.7	70.0 to 130	1.57	20.0	
BD20099	Barium, Dissolved	mg/L	0.0000108	0.00100	0.100	0.210	0.213	0.0975	0.0850 to 0.115	92.0	70.0 to 130	1.42	20.0	
BD20098	Barium, Total	mg/L	-0.0000192	0.00100	0.100	0.211	0.215	0.0957	0.0850 to 0.115	84.0	70.0 to 130	1.88	20.0	
BD20099	Beryllium, Dissolved	mg/L	0.0000056	0.000880	0.100	0.0988	0.103	0.102	0.0850 to 0.115	98.8	70.0 to 130	4.16	20.0	
BD20098	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0971	0.0991	0.100	0.0850 to 0.115	97.1	70.0 to 130	2.04	20.0	
BD20099	Boron, Dissolved	mg/L	-0.000794	0.0650	1.00	1.63	1.64	1.10	0.850 to 1.15	106	70.0 to 130	0.612	20.0	
BD20098	Boron, Total	mg/L	0.00016	0.0650	1.00	1.58	1.62	1.01	0.850 to 1.15	102	70.0 to 130	2.50	20.0	
BD20099	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0994	0.105	0.0850 to 0.115	98.7	70.0 to 130	0.707	20.0	
BD20098	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0977	0.0960	0.102	0.0850 to 0.115	97.7	70.0 to 130	1.76	20.0	
BD20099	Calcium, Dissolved	mg/L	-0.0586	0.152	5.00	129	128	4.36	4.25 to 5.75	80.0	70.0 to 130	0.778	20.0	
BD20098	Calcium, Total	mg/L	-0.0336	0.152	5.00	159	159	4.93	4.25 to 5.75	100	70.0 to 130	0.00	20.0	
BD20098	Chloride	mg/L	0.0518	1.00	10.0	22.1	22.0	10.2	9.00 to 11.0	93.0	80.0 to 120	0.454	20.0	
BD20099	Chromium, Dissolved	mg/L	-0.0000719	0.000440	0.100	0.0989	0.0985	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.405	20.0	
BD20098	Chromium, Total	mg/L	-0.0000794	0.000440	0.100	0.0976	0.0967	0.101	0.0850 to 0.115	97.0	70.0 to 130	0.926	20.0	
BD20099	Cobalt, Dissolved	mg/L	0.0000018	0.000147	0.100	0.122	0.121	0.107	0.0850 to 0.115	102	70.0 to 130	0.823	20.0	
BD20098	Cobalt, Total	mg/L	0.0000001	0.000147	0.100	0.121	0.120	0.104	0.0850 to 0.115	97.7	70.0 to 130	0.830	20.0	
BD20099	Iron, Dissolved	mg/L	-0.000421	0.0176	0.2	9.78	9.89	0.205	0.170 to 0.230	95.0	70.0 to 130	1.12	20.0	
BD20098	Iron, Total	mg/L	-0.000654	0.0176	0.2	12.0	11.7	0.204	0.170 to 0.230	50.0	70.0 to 130	2.53	20.0	
BD20099	Lead, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0961	0.103	0.101	0.0850 to 0.115	96.1	70.0 to 130	6.93	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 10:01  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-44H

**Laboratory ID Number:** BD20093

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD20098	Lead, Total	mg/L	0.0000036	0.000147	0.100	0.0970	0.0994	0.100	0.0850 to 0.115	97.0	70.0 to 130	2.44	20.0
BD20099	Lithium, Dissolved	mg/L	0.000587	0.0154	0.200	0.336	0.339	0.204	0.170 to 0.230	108	70.0 to 130	0.889	20.0
BD20098	Lithium, Total	mg/L	0.000259	0.0154	0.200	0.328	0.335	0.206	0.170 to 0.230	102	70.0 to 130	2.11	20.0
BD20099	Magnesium, Dissolved	mg/L	-0.00878	0.0462	5.00	22.4	22.4	4.26	4.25 to 5.75	116	70.0 to 130	0.00	20.0
BD20098	Magnesium, Total	mg/L	-0.0126	0.0462	5.00	21.6	22.0	5.10	4.25 to 5.75	98.0	70.0 to 130	1.83	20.0
BD20099	Manganese, Dissolved	mg/L	0.0000135	0.00033	0.100	4.49	4.48	0.101	0.0850 to 0.115	100	70.0 to 130	0.223	20.0
BD20098	Manganese, Total	mg/L	0.0000088	0.00033	0.100	4.72	4.59	0.0982	0.0850 to 0.115	220	70.0 to 130	2.79	20.0
BD20094	Mercury, Total by CVAA	mg/L	0.00034	0.000500	0.004	0.00376	0.00396	0.00402	0.00340 to 0.00460	85.7	70.0 to 130	5.18	20.0
BD20099	Molybdenum, Dissolved	mg/L	0.00031	0.0100	0.2	0.211	0.213	0.202	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BD20098	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.212	0.210	0.170 to 0.230	104	70.0 to 130	2.39	20.0
BD20099	Potassium, Dissolved	mg/L	0.00422	0.367	10.0	16.7	17.1	10.6	8.50 to 11.5	102	70.0 to 130	2.37	20.0
BD20098	Potassium, Total	mg/L	-0.0162	0.367	10.0	16.8	16.6	10.1	8.50 to 11.5	91.7	70.0 to 130	1.20	20.0
BD20099	Selenium, Dissolved	mg/L	0.000215	0.00100	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD20098	Selenium, Total	mg/L	0.0000222	0.00100	0.100	0.0989	0.0969	0.102	0.0850 to 0.115	98.9	70.0 to 130	2.04	20.0
BD20099	Silicon, Dissolved	mg/L	0.00091	0.0440	1.00	5.44	5.43	1.03	0.850 to 1.15	114	70.0 to 130	0.184	20.0
BD20098	Silicon, Total	mg/L	0.000484	0.0440	1.00	5.33	5.40	1.05	0.850 to 1.15	103	70.0 to 130	1.30	20.0
BD20099	Sodium, Dissolved	mg/L	0.00144	0.0880	5.00	34.8	35.1	5.01	4.25 to 5.75	116	70.0 to 130	0.858	20.0
BD20098	Sodium, Total	mg/L	0.00322	0.0880	5.00	33.2	33.7	5.12	4.25 to 5.75	98.0	70.0 to 130	1.49	20.0
BD20098	Sulfate	mg/L	-0.0356	2.0	400.0	679	670	20.3	18.0 to 22.0	96.0	80.0 to 120	1.33	20.0
BD20099	Thallium, Dissolved	mg/L	0.0000017	0.000147	0.100	0.0975	0.102	0.101	0.0850 to 0.115	97.5	70.0 to 130	4.51	20.0
BD20098	Thallium, Total	mg/L	0.0000134	0.000147	0.100	0.0970	0.101	0.0992	0.0850 to 0.115	97.0	70.0 to 130	4.04	20.0
BD20097	Total Organic Carbon	mg/L	0.253	1.00	10.0	10.9	11.5	10.3		91.2	80.0 to 120	5.36	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 10:01  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-44H

**Laboratory ID Number:** BD20093

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BD20104	Alkalinity	mg CaCO3/L					54.0	51.6	45.0 to 55.0			0.00	10.0
BD20096	Fluoride	mg/L	0.000000	0.0200	2.00	2.26	0.173	2.06	1.80 to 2.20	104	80.0 to 120	0.576	20.0
BD20098	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.01	0.022	1.95	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD20101	Solids, Dissolved	mg/L	2.00	25.0			449	56.0	40.0 to 60.0			0.666	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-54H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 10:59  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20094

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	11/3/23 11:25	11/7/23 14:52		1.015	0.369	mg/L	0.030000	0.1015	
* Calcium, Total	11/3/23 11:25	11/7/23 17:44		10.15	125	mg/L	0.70035	4.06	
* Iron, Total	11/3/23 11:25	11/7/23 17:47		101.5	57.2	mg/L	0.8120	4.06	
* Lithium, Total	11/3/23 11:25	11/7/23 14:52		1.015	0.0648	mg/L	0.007105	0.01999956	
* Magnesium, Total	11/3/23 11:25	11/7/23 14:52		1.015	27.3	mg/L	0.021315	0.406	
* Molybdenum, Total	11/3/23 11:25	11/7/23 14:52		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	11/3/23 11:25	11/7/23 14:52		1	18.0	mg/L			
* Silicon, Total	11/3/23 11:25	11/7/23 14:52		1.015	8.42	mg/L	0.02030	0.25375	
* Sodium, Total	11/3/23 11:25	11/7/23 14:52		1.015	14.8	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>							
* Boron, Dissolved	11/2/23 15:25	11/7/23 13:29		1.015	0.368	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/2/23 15:25	11/7/23 16:44		10.15	115	mg/L	0.70035	4.06	
* Iron, Dissolved	11/2/23 15:25	11/7/23 16:47		101.5	52.9	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/2/23 15:25	11/7/23 13:29		1.015	0.0651	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	11/2/23 15:25	11/7/23 13:29		1.015	27.3	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	11/2/23 15:25	11/7/23 13:29		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	11/2/23 15:25	11/7/23 13:29		1	17.7	mg/L			
* Silicon, Dissolved	11/2/23 15:25	11/7/23 13:29		1.015	8.28	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/2/23 15:25	11/7/23 13:29		1.015	14.9	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	11/3/23 11:25	11/3/23 19:05		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	11/3/23 11:25	11/3/23 19:05		1.015	0.140	mg/L	0.009135	0.05075	
* Arsenic, Total	11/3/23 11:25	11/3/23 19:05		1.015	0.498	mg/L	0.000112	0.000203	
* Barium, Total	11/3/23 11:25	11/3/23 19:05		1.015	0.237	mg/L	0.000508	0.001015	
* Beryllium, Total	11/3/23 11:25	11/3/23 19:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/3/23 11:25	11/3/23 19:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/3/23 11:25	11/3/23 19:05		1.015	0.000374	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/3/23 11:25	11/3/23 19:05		1.015	0.0476	mg/L	0.000068	0.000203	
* Lead, Total	11/3/23 11:25	11/3/23 19:05		1.015	0.0000991	mg/L	0.000068	0.000203	J
* Manganese, Total	11/3/23 11:25	11/7/23 16:47		5.075	1.87	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-54H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 10:59  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20094

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	11/3/23 11:25	11/3/23 19:05		1.015	7.51	mg/L	0.169505	0.5075	
* Selenium, Total	11/3/23 11:25	11/3/23 19:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/3/23 11:25	11/3/23 19:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	11/2/23 15:25	11/3/23 15:42		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	11/2/23 15:25	11/3/23 15:42		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	11/2/23 15:25	11/3/23 15:42		1.015	0.498	mg/L	0.000112	0.000203	
* Barium, Dissolved	11/2/23 15:25	11/3/23 15:42		1.015	0.232	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/2/23 15:25	11/3/23 15:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/2/23 15:25	11/3/23 15:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/2/23 15:25	11/3/23 15:42		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/2/23 15:25	11/3/23 15:42		1.015	0.0473	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/2/23 15:25	11/3/23 15:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/2/23 15:25	11/7/23 15:51		5.075	1.83	mg/L	0.000761	0.005075	
* Potassium, Dissolved	11/2/23 15:25	11/3/23 15:42		1.015	7.42	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/2/23 15:25	11/3/23 15:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/2/23 15:25	11/3/23 15:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/7/23 13:27	11/8/23 15:54		1	0.000331	mg/L	0.0003	0.0005	J
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/16/23 01:01	11/16/23 01:01		1	0.239	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	11/7/23 18:09	11/7/23 18:09		1	0.235	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/14/23 08:30	11/14/23 08:55		1	4.47	SU		2	
* Alkalinity	11/14/23 08:30	11/14/23 08:55		1	306	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	11/2/23 15:00	11/7/23 15:15		1	514	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 08:55		1	306	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 08:55		1	Not Detected	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-54H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 10:59  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20094

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	11/7/23 15:11	11/7/23 15:11		1	4.19	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	11/3/23 09:37	11/3/23 09:37		1	7.65	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 10:17	11/7/23 10:17		4	94.8	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/31/23 10:56	10/31/23 10:56			770.46	uS/cm			FA
pH	10/31/23 10:56	10/31/23 10:56			6.80	SU			FA
Temperature	10/31/23 10:56	10/31/23 10:56			20.99	C			FA
Turbidity	10/31/23 10:56	10/31/23 10:56			7.88	NTU			FA
Sulfide	10/31/23 10:56	10/31/23 10:56			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 10:59  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-54H

**Laboratory ID Number:** BD20094

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD20099	Aluminum, Dissolved	mg/L	0.000413	0.0198	0.100	0.0957	0.0982	0.0995	0.0850 to 0.115	95.7	70.0 to 130	2.58	20.0
BD20098	Aluminum, Total	mg/L	0.000983	0.0198	0.100	0.116	0.115	0.0979	0.0850 to 0.115	95.1	70.0 to 130	0.866	20.0
BD20099	Antimony, Dissolved	mg/L	0.000364	0.00100	0.100	0.103	0.103	0.0947	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD20098	Antimony, Total	mg/L	0.000387	0.00100	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD20099	Arsenic, Dissolved	mg/L	-0.0000009	0.000200	0.100	0.0955	0.0951	0.0979	0.0850 to 0.115	93.5	70.0 to 130	0.420	20.0
BD20098	Arsenic, Total	mg/L	0.0000176	0.000200	0.100	0.0947	0.0962	0.0971	0.0850 to 0.115	92.7	70.0 to 130	1.57	20.0
BD20099	Barium, Dissolved	mg/L	0.0000108	0.00100	0.100	0.210	0.213	0.0975	0.0850 to 0.115	92.0	70.0 to 130	1.42	20.0
BD20098	Barium, Total	mg/L	-0.0000192	0.00100	0.100	0.211	0.215	0.0957	0.0850 to 0.115	84.0	70.0 to 130	1.88	20.0
BD20099	Beryllium, Dissolved	mg/L	0.0000056	0.000880	0.100	0.0988	0.103	0.102	0.0850 to 0.115	98.8	70.0 to 130	4.16	20.0
BD20098	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0971	0.0991	0.100	0.0850 to 0.115	97.1	70.0 to 130	2.04	20.0
BD20099	Boron, Dissolved	mg/L	-0.000794	0.0650	1.00	1.63	1.64	1.10	0.850 to 1.15	106	70.0 to 130	0.612	20.0
BD20098	Boron, Total	mg/L	0.00016	0.0650	1.00	1.58	1.62	1.01	0.850 to 1.15	102	70.0 to 130	2.50	20.0
BD20099	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0994	0.105	0.0850 to 0.115	98.7	70.0 to 130	0.707	20.0
BD20098	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0977	0.0960	0.102	0.0850 to 0.115	97.7	70.0 to 130	1.76	20.0
BD20099	Calcium, Dissolved	mg/L	-0.0586	0.152	5.00	129	128	4.36	4.25 to 5.75	80.0	70.0 to 130	0.778	20.0
BD20098	Calcium, Total	mg/L	-0.0336	0.152	5.00	159	159	4.93	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD20098	Chloride	mg/L	0.0518	1.00	10.0	22.1	22.0	10.2	9.00 to 11.0	93.0	80.0 to 120	0.454	20.0
BD20099	Chromium, Dissolved	mg/L	-0.0000719	0.000440	0.100	0.0989	0.0985	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.405	20.0
BD20098	Chromium, Total	mg/L	-0.0000794	0.000440	0.100	0.0976	0.0967	0.101	0.0850 to 0.115	97.0	70.0 to 130	0.926	20.0
BD20099	Cobalt, Dissolved	mg/L	0.0000018	0.000147	0.100	0.122	0.121	0.107	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BD20098	Cobalt, Total	mg/L	0.0000001	0.000147	0.100	0.121	0.120	0.104	0.0850 to 0.115	97.7	70.0 to 130	0.830	20.0
BD20099	Iron, Dissolved	mg/L	-0.000421	0.0176	0.2	9.78	9.89	0.205	0.170 to 0.230	95.0	70.0 to 130	1.12	20.0
BD20098	Iron, Total	mg/L	-0.000654	0.0176	0.2	12.0	11.7	0.204	0.170 to 0.230	50.0	70.0 to 130	2.53	20.0
BD20099	Lead, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0961	0.103	0.101	0.0850 to 0.115	96.1	70.0 to 130	6.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 10:59  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-54H

**Laboratory ID Number:** BD20094

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec		
BD20098	Lead, Total	mg/L	0.0000036	0.000147	0.100	0.0970	0.0994	0.100	0.0850 to 0.115	97.0	70.0 to 130	2.44	20.0	
BD20099	Lithium, Dissolved	mg/L	0.000587	0.0154	0.200	0.336	0.339	0.204	0.170 to 0.230	108	70.0 to 130	0.889	20.0	
BD20098	Lithium, Total	mg/L	0.000259	0.0154	0.200	0.328	0.335	0.206	0.170 to 0.230	102	70.0 to 130	2.11	20.0	
BD20099	Magnesium, Dissolved	mg/L	-0.00878	0.0462	5.00	22.4	22.4	4.26	4.25 to 5.75	116	70.0 to 130	0.00	20.0	
BD20098	Magnesium, Total	mg/L	-0.0126	0.0462	5.00	21.6	22.0	5.10	4.25 to 5.75	98.0	70.0 to 130	1.83	20.0	
BD20099	Manganese, Dissolved	mg/L	0.0000135	0.00033	0.100	4.49	4.48	0.101	0.0850 to 0.115	100	70.0 to 130	0.223	20.0	
BD20098	Manganese, Total	mg/L	0.0000088	0.00033	0.100	4.72	4.59	0.0982	0.0850 to 0.115	220	70.0 to 130	2.79	20.0	
BD20094	Mercury, Total by CVAA	mg/L	0.00034	0.000500	0.004	0.00376	0.00396	0.00402	0.00340 to 0.00460	85.7	70.0 to 130	5.18	20.0	
BD20099	Molybdenum, Dissolved	mg/L	0.00031	0.0100	0.2	0.211	0.213	0.202	0.170 to 0.230	106	70.0 to 130	0.943	20.0	
BD20098	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.212	0.210	0.170 to 0.230	104	70.0 to 130	2.39	20.0	
BD20099	Potassium, Dissolved	mg/L	0.00422	0.367	10.0	16.7	17.1	10.6	8.50 to 11.5	102	70.0 to 130	2.37	20.0	
BD20098	Potassium, Total	mg/L	-0.0162	0.367	10.0	16.8	16.6	10.1	8.50 to 11.5	91.7	70.0 to 130	1.20	20.0	
BD20099	Selenium, Dissolved	mg/L	0.000215	0.00100	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0	
BD20098	Selenium, Total	mg/L	0.0000222	0.00100	0.100	0.0989	0.0969	0.102	0.0850 to 0.115	98.9	70.0 to 130	2.04	20.0	
BD20099	Silicon, Dissolved	mg/L	0.00091	0.0440	1.00	5.44	5.43	1.03	0.850 to 1.15	114	70.0 to 130	0.184	20.0	
BD20098	Silicon, Total	mg/L	0.000484	0.0440	1.00	5.33	5.40	1.05	0.850 to 1.15	103	70.0 to 130	1.30	20.0	
BD20099	Sodium, Dissolved	mg/L	0.00144	0.0880	5.00	34.8	35.1	5.01	4.25 to 5.75	116	70.0 to 130	0.858	20.0	
BD20098	Sodium, Total	mg/L	0.00322	0.0880	5.00	33.2	33.7	5.12	4.25 to 5.75	98.0	70.0 to 130	1.49	20.0	
BD20098	Sulfate	mg/L	-0.0356	2.0	400.0	679	670	20.3	18.0 to 22.0	96.0	80.0 to 120	1.33	20.0	
BD20099	Thallium, Dissolved	mg/L	0.0000017	0.000147	0.100	0.0975	0.102	0.101	0.0850 to 0.115	97.5	70.0 to 130	4.51	20.0	
BD20098	Thallium, Total	mg/L	0.0000134	0.000147	0.100	0.0970	0.101	0.0992	0.0850 to 0.115	97.0	70.0 to 130	4.04	20.0	
BD20097	Total Organic Carbon	mg/L	0.253	1.00	10.0	10.9	11.5	10.3		91.2	80.0 to 120	5.36	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 10:59  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-54H

**Laboratory ID Number:** BD20094

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BD20104	Alkalinity	mg CaCO3/L					54.0	51.6	45.0 to 55.0			0.00	10.0
BD20096	Fluoride	mg/L	0.000000	0.0200	2.00	2.26	0.173	2.06	1.80 to 2.20	104	80.0 to 120	0.576	20.0
BD20098	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.01	0.022	1.95	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD20101	Solids, Dissolved	mg/L	2.00	25.0			449	56.0	40.0 to 60.0			0.666	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-53H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 12:29  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20095

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ELH</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	11/3/23 11:25	11/7/23 14:55		1.015	0.564	mg/L	0.030000	0.1015	
* Calcium, Total	11/3/23 11:25	11/7/23 17:51		10.15	90.1	mg/L	0.70035	4.06	
* Iron, Total	11/3/23 11:25	11/7/23 17:54		101.5	64.5	mg/L	0.8120	4.06	
* Lithium, Total	11/3/23 11:25	11/7/23 14:55		1.015	0.00794	mg/L	0.007105	0.01999956	J
* Magnesium, Total	11/3/23 11:25	11/7/23 14:55		1.015	8.75	mg/L	0.021315	0.406	
* Molybdenum, Total	11/3/23 11:25	11/7/23 14:55		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	11/3/23 11:25	11/7/23 14:55		1	15.0	mg/L			
* Silicon, Total	11/3/23 11:25	11/7/23 14:55		1.015	7.02	mg/L	0.02030	0.25375	
* Sodium, Total	11/3/23 11:25	11/7/23 14:55		1.015	22.5	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ELH</b>						
* Boron, Dissolved	11/2/23 15:25	11/7/23 13:32		1.015	0.561	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/2/23 15:25	11/7/23 16:50		10.15	76.6	mg/L	0.70035	4.06	
* Iron, Dissolved	11/2/23 15:25	11/7/23 16:53		101.5	65.8	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/2/23 15:25	11/7/23 13:32		1.015	0.00753	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	11/2/23 15:25	11/7/23 13:32		1.015	8.72	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	11/2/23 15:25	11/7/23 13:32		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	11/2/23 15:25	11/7/23 13:32		1	14.5	mg/L			
* Silicon, Dissolved	11/2/23 15:25	11/7/23 13:32		1.015	6.76	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/2/23 15:25	11/7/23 13:32		1.015	22.9	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	11/3/23 11:25	11/3/23 19:09		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	11/3/23 11:25	11/3/23 19:09		1.015	0.195	mg/L	0.009135	0.05075	
* Arsenic, Total	11/3/23 11:25	11/3/23 19:09		1.015	0.302	mg/L	0.000112	0.000203	
* Barium, Total	11/3/23 11:25	11/3/23 19:09		1.015	0.311	mg/L	0.000508	0.001015	
* Beryllium, Total	11/3/23 11:25	11/3/23 19:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/3/23 11:25	11/3/23 19:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/3/23 11:25	11/3/23 19:09		1.015	0.000587	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/3/23 11:25	11/3/23 19:09		1.015	0.00380	mg/L	0.000068	0.000203	
* Lead, Total	11/3/23 11:25	11/3/23 19:09		1.015	0.000132	mg/L	0.000068	0.000203	J
* Manganese, Total	11/3/23 11:25	11/7/23 16:51		5.075	2.53	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-53H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 12:29  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20095

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	11/3/23 11:25	11/3/23 19:09		1.015	4.25	mg/L	0.169505	0.5075	
* Selenium, Total	11/3/23 11:25	11/3/23 19:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/3/23 11:25	11/3/23 19:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	11/2/23 15:25	11/3/23 15:46		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	11/2/23 15:25	11/3/23 15:46		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	11/2/23 15:25	11/3/23 15:46		1.015	0.306	mg/L	0.000112	0.000203	
* Barium, Dissolved	11/2/23 15:25	11/3/23 15:46		1.015	0.299	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/2/23 15:25	11/3/23 15:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/2/23 15:25	11/3/23 15:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/2/23 15:25	11/3/23 15:46		1.015	0.000282	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/2/23 15:25	11/3/23 15:46		1.015	0.00376	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/2/23 15:25	11/3/23 15:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/2/23 15:25	11/7/23 15:55		5.075	2.43	mg/L	0.000761	0.005075	
* Potassium, Dissolved	11/2/23 15:25	11/3/23 15:46		1.015	4.41	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/2/23 15:25	11/3/23 15:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/2/23 15:25	11/3/23 15:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/7/23 13:27	11/8/23 16:11		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/16/23 01:25	11/16/23 01:25		1	0.140	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	11/7/23 18:10	11/7/23 18:10		1	0.264	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/14/23 08:30	11/14/23 09:06		1	4.56	SU		2	
* Alkalinity	11/14/23 08:30	11/14/23 09:06		1	244	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	11/2/23 15:00	11/7/23 15:15		1	362	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 09:06		1	244	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 09:06		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-53H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 12:29  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20095

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	11/7/23 15:25	11/7/23 15:25		1	4.68	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	11/3/23 09:38	11/3/23 09:38		1	15.8	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 10:09	11/7/23 10:09		1	10.2	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/31/23 12:26	10/31/23 12:26			605.95	uS/cm			FA
pH	10/31/23 12:26	10/31/23 12:26			6.61	SU			FA
Temperature	10/31/23 12:26	10/31/23 12:26			22.50	C			FA
Turbidity	10/31/23 12:26	10/31/23 12:26			8.02	NTU			FA
Sulfide	10/31/23 12:26	10/31/23 12:26			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 12:29  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-53H

**Laboratory ID Number:** BD20095

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BD20099	Aluminum, Dissolved	mg/L	0.000413	0.0198	0.100	0.0957	0.0982	0.0995	0.0850 to 0.115	95.7	70.0 to 130	2.58	20.0
BD20098	Aluminum, Total	mg/L	0.000983	0.0198	0.100	0.116	0.115	0.0979	0.0850 to 0.115	95.1	70.0 to 130	0.866	20.0
BD20099	Antimony, Dissolved	mg/L	0.000364	0.00100	0.100	0.103	0.103	0.0947	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD20098	Antimony, Total	mg/L	0.000387	0.00100	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD20099	Arsenic, Dissolved	mg/L	-0.0000009	0.000200	0.100	0.0955	0.0951	0.0979	0.0850 to 0.115	93.5	70.0 to 130	0.420	20.0
BD20098	Arsenic, Total	mg/L	0.0000176	0.000200	0.100	0.0947	0.0962	0.0971	0.0850 to 0.115	92.7	70.0 to 130	1.57	20.0
BD20099	Barium, Dissolved	mg/L	0.0000108	0.00100	0.100	0.210	0.213	0.0975	0.0850 to 0.115	92.0	70.0 to 130	1.42	20.0
BD20098	Barium, Total	mg/L	-0.0000192	0.00100	0.100	0.211	0.215	0.0957	0.0850 to 0.115	84.0	70.0 to 130	1.88	20.0
BD20099	Beryllium, Dissolved	mg/L	0.0000056	0.000880	0.100	0.0988	0.103	0.102	0.0850 to 0.115	98.8	70.0 to 130	4.16	20.0
BD20098	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0971	0.0991	0.100	0.0850 to 0.115	97.1	70.0 to 130	2.04	20.0
BD20099	Boron, Dissolved	mg/L	-0.000794	0.0650	1.00	1.63	1.64	1.10	0.850 to 1.15	106	70.0 to 130	0.612	20.0
BD20098	Boron, Total	mg/L	0.00016	0.0650	1.00	1.58	1.62	1.01	0.850 to 1.15	102	70.0 to 130	2.50	20.0
BD20099	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0994	0.105	0.0850 to 0.115	98.7	70.0 to 130	0.707	20.0
BD20098	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0977	0.0960	0.102	0.0850 to 0.115	97.7	70.0 to 130	1.76	20.0
BD20099	Calcium, Dissolved	mg/L	-0.0586	0.152	5.00	129	128	4.36	4.25 to 5.75	80.0	70.0 to 130	0.778	20.0
BD20098	Calcium, Total	mg/L	-0.0336	0.152	5.00	159	159	4.93	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD20098	Chloride	mg/L	0.0518	1.00	10.0	22.1	22.0	10.2	9.00 to 11.0	93.0	80.0 to 120	0.454	20.0
BD20099	Chromium, Dissolved	mg/L	-0.0000719	0.000440	0.100	0.0989	0.0985	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.405	20.0
BD20098	Chromium, Total	mg/L	-0.0000794	0.000440	0.100	0.0976	0.0967	0.101	0.0850 to 0.115	97.0	70.0 to 130	0.926	20.0
BD20099	Cobalt, Dissolved	mg/L	0.0000018	0.000147	0.100	0.122	0.121	0.107	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BD20098	Cobalt, Total	mg/L	0.0000001	0.000147	0.100	0.121	0.120	0.104	0.0850 to 0.115	97.7	70.0 to 130	0.830	20.0
BD20099	Iron, Dissolved	mg/L	-0.000421	0.0176	0.2	9.78	9.89	0.205	0.170 to 0.230	95.0	70.0 to 130	1.12	20.0
BD20098	Iron, Total	mg/L	-0.000654	0.0176	0.2	12.0	11.7	0.204	0.170 to 0.230	50.0	70.0 to 130	2.53	20.0
BD20099	Lead, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0961	0.103	0.101	0.0850 to 0.115	96.1	70.0 to 130	6.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 12:29  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-53H

**Laboratory ID Number:** BD20095

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD20098	Lead, Total	mg/L	0.0000036	0.000147	0.100	0.0970	0.0994	0.100	0.0850 to 0.115	97.0	70.0 to 130	2.44	20.0
BD20099	Lithium, Dissolved	mg/L	0.000587	0.0154	0.200	0.336	0.339	0.204	0.170 to 0.230	108	70.0 to 130	0.889	20.0
BD20098	Lithium, Total	mg/L	0.000259	0.0154	0.200	0.328	0.335	0.206	0.170 to 0.230	102	70.0 to 130	2.11	20.0
BD20099	Magnesium, Dissolved	mg/L	-0.00878	0.0462	5.00	22.4	22.4	4.26	4.25 to 5.75	116	70.0 to 130	0.00	20.0
BD20098	Magnesium, Total	mg/L	-0.0126	0.0462	5.00	21.6	22.0	5.10	4.25 to 5.75	98.0	70.0 to 130	1.83	20.0
BD20099	Manganese, Dissolved	mg/L	0.0000135	0.00033	0.100	4.49	4.48	0.101	0.0850 to 0.115	100	70.0 to 130	0.223	20.0
BD20098	Manganese, Total	mg/L	0.0000088	0.00033	0.100	4.72	4.59	0.0982	0.0850 to 0.115	220	70.0 to 130	2.79	20.0
BD20104	Mercury, Total by CVAA	mg/L	0.000338	0.000500	0.004	0.00353	0.00340	0.00401	0.00340 to 0.00460	88.2	70.0 to 130	3.75	20.0
BD20099	Molybdenum, Dissolved	mg/L	0.00031	0.0100	0.2	0.211	0.213	0.202	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BD20098	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.212	0.210	0.170 to 0.230	104	70.0 to 130	2.39	20.0
BD20099	Potassium, Dissolved	mg/L	0.00422	0.367	10.0	16.7	17.1	10.6	8.50 to 11.5	102	70.0 to 130	2.37	20.0
BD20098	Potassium, Total	mg/L	-0.0162	0.367	10.0	16.8	16.6	10.1	8.50 to 11.5	91.7	70.0 to 130	1.20	20.0
BD20099	Selenium, Dissolved	mg/L	0.000215	0.00100	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD20098	Selenium, Total	mg/L	0.0000222	0.00100	0.100	0.0989	0.0969	0.102	0.0850 to 0.115	98.9	70.0 to 130	2.04	20.0
BD20099	Silicon, Dissolved	mg/L	0.00091	0.0440	1.00	5.44	5.43	1.03	0.850 to 1.15	114	70.0 to 130	0.184	20.0
BD20098	Silicon, Total	mg/L	0.000484	0.0440	1.00	5.33	5.40	1.05	0.850 to 1.15	103	70.0 to 130	1.30	20.0
BD20099	Sodium, Dissolved	mg/L	0.00144	0.0880	5.00	34.8	35.1	5.01	4.25 to 5.75	116	70.0 to 130	0.858	20.0
BD20098	Sodium, Total	mg/L	0.00322	0.0880	5.00	33.2	33.7	5.12	4.25 to 5.75	98.0	70.0 to 130	1.49	20.0
BD20098	Sulfate	mg/L	-0.0356	2.0	400.0	679	670	20.3	18.0 to 22.0	96.0	80.0 to 120	1.33	20.0
BD20099	Thallium, Dissolved	mg/L	0.0000017	0.000147	0.100	0.0975	0.102	0.101	0.0850 to 0.115	97.5	70.0 to 130	4.51	20.0
BD20098	Thallium, Total	mg/L	0.0000134	0.000147	0.100	0.0970	0.101	0.0992	0.0850 to 0.115	97.0	70.0 to 130	4.04	20.0
BD20097	Total Organic Carbon	mg/L	0.253	1.00	10.0	10.9	11.5	10.3		91.2	80.0 to 120	5.36	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 12:29  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-53H

**Laboratory ID Number:** BD20095

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BD20104	Alkalinity	mg CaCO3/L					54.0	51.6	45.0 to 55.0			0.00	10.0
BD20096	Fluoride	mg/L	0.000000	0.0200	2.00	2.26	0.173	2.06	1.80 to 2.20	104	80.0 to 120	0.576	20.0
BD20098	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.01	0.022	1.95	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD20101	Solids, Dissolved	mg/L	2.00	25.0			449	56.0	40.0 to 60.0			0.666	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-57H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 13:20  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20096

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	11/3/23 11:25	11/7/23 14:58		1.015	0.188	mg/L	0.030000	0.1015		
* Calcium, Total	11/3/23 11:25	11/7/23 14:58		1.015	38.4	mg/L	0.070035	0.406		
* Iron, Total	11/3/23 11:25	11/7/23 17:57		10.15	39.9	mg/L	0.08120	0.406		
* Lithium, Total	11/3/23 11:25	11/7/23 14:58		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	11/3/23 11:25	11/7/23 14:58		1.015	11.7	mg/L	0.021315	0.406		
* Molybdenum, Total	11/3/23 11:25	11/7/23 14:58		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	11/3/23 11:25	11/7/23 14:58		1	11.0	mg/L				
* Silicon, Total	11/3/23 11:25	11/7/23 14:58		1.015	5.15	mg/L	0.02030	0.25375		
* Sodium, Total	11/3/23 11:25	11/7/23 14:58		1.015	12.2	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	11/2/23 15:25	11/7/23 13:35		1.015	0.185	mg/L	0.030000	0.1015		
* Calcium, Dissolved	11/2/23 15:25	11/7/23 13:35		1.015	37.8	mg/L	0.070035	0.406		
* Iron, Dissolved	11/2/23 15:25	11/7/23 16:56		10.15	36.6	mg/L	0.08120	0.406		
* Lithium, Dissolved	11/2/23 15:25	11/7/23 13:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	11/2/23 15:25	11/7/23 13:35		1.015	11.6	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	11/2/23 15:25	11/7/23 13:35		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	11/2/23 15:25	11/7/23 13:35		1	11.0	mg/L				
* Silicon, Dissolved	11/2/23 15:25	11/7/23 13:35		1.015	5.14	mg/L	0.02030	0.25375		
* Sodium, Dissolved	11/2/23 15:25	11/7/23 13:35		1.015	12.2	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	11/3/23 11:25	11/3/23 19:13		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	11/3/23 11:25	11/3/23 19:13		1.015	0.0115	mg/L	0.009135	0.05075	J	
* Arsenic, Total	11/3/23 11:25	11/3/23 19:13		1.015	0.0260	mg/L	0.000112	0.000203		
* Barium, Total	11/3/23 11:25	11/3/23 19:13		1.015	0.0998	mg/L	0.000508	0.001015		
* Beryllium, Total	11/3/23 11:25	11/3/23 19:13		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	11/3/23 11:25	11/3/23 19:13		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	11/3/23 11:25	11/3/23 19:13		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	11/3/23 11:25	11/3/23 19:13		1.015	0.0440	mg/L	0.000068	0.000203		
* Lead, Total	11/3/23 11:25	11/3/23 19:13		1.015	0.000112	mg/L	0.000068	0.000203	J	
* Manganese, Total	11/3/23 11:25	11/7/23 16:55		5.075	1.98	mg/L	0.000761	0.005075		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-57H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 13:20  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20096

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	11/3/23 11:25	11/3/23 19:13		1.015	4.46	mg/L	0.169505	0.5075	
* Selenium, Total	11/3/23 11:25	11/3/23 19:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/3/23 11:25	11/3/23 19:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	11/2/23 15:25	11/3/23 15:50		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	11/2/23 15:25	11/3/23 15:50		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	11/2/23 15:25	11/3/23 15:50		1.015	0.0274	mg/L	0.000112	0.000203	
* Barium, Dissolved	11/2/23 15:25	11/3/23 15:50		1.015	0.102	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/2/23 15:25	11/3/23 15:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/2/23 15:25	11/3/23 15:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/2/23 15:25	11/3/23 15:50		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/2/23 15:25	11/3/23 15:50		1.015	0.0428	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/2/23 15:25	11/3/23 15:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/2/23 15:25	11/7/23 15:58		5.075	1.91	mg/L	0.000761	0.005075	
* Potassium, Dissolved	11/2/23 15:25	11/3/23 15:50		1.015	4.21	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/2/23 15:25	11/3/23 15:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/2/23 15:25	11/3/23 15:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/7/23 13:27	11/8/23 16:13		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/15/23 20:20	11/15/23 20:20		1	0.174	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	11/7/23 18:12	11/7/23 18:12		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/14/23 08:30	11/14/23 09:17		1	4.49	SU		2	
* Alkalinity	11/14/23 08:30	11/14/23 09:17		1	94.0	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	11/2/23 15:00	11/7/23 15:15		1	267	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 09:17		1	94.0	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 09:17		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-57H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 13:20  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20096

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	11/7/23 15:41	11/7/23 15:41		1	3.03	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	11/3/23 09:39	11/3/23 09:39		1	4.83	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 10:18	11/7/23 10:18		3	80.7	mg/L	1.8	6	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/31/23 13:17	10/31/23 13:17			387.98	uS/cm			FA
pH	10/31/23 13:17	10/31/23 13:17			6.46	SU			FA
Temperature	10/31/23 13:17	10/31/23 13:17			20.44	C			FA
Turbidity	10/31/23 13:17	10/31/23 13:17			2.32	NTU			FA
Sulfide	10/31/23 13:17	10/31/23 13:17			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 13:20  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-57H

**Laboratory ID Number:** BD20096

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD20099	Aluminum, Dissolved	mg/L	0.000413	0.0198	0.100	0.0957	0.0982	0.0995	0.0850 to 0.115	95.7	70.0 to 130	2.58	20.0	
BD20098	Aluminum, Total	mg/L	0.000983	0.0198	0.100	0.116	0.115	0.0979	0.0850 to 0.115	95.1	70.0 to 130	0.866	20.0	
BD20099	Antimony, Dissolved	mg/L	0.000364	0.00100	0.100	0.103	0.103	0.0947	0.0850 to 0.115	103	70.0 to 130	0.00	20.0	
BD20098	Antimony, Total	mg/L	0.000387	0.00100	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0	
BD20099	Arsenic, Dissolved	mg/L	-0.0000009	0.000200	0.100	0.0955	0.0951	0.0979	0.0850 to 0.115	93.5	70.0 to 130	0.420	20.0	
BD20098	Arsenic, Total	mg/L	0.0000176	0.000200	0.100	0.0947	0.0962	0.0971	0.0850 to 0.115	92.7	70.0 to 130	1.57	20.0	
BD20099	Barium, Dissolved	mg/L	0.0000108	0.00100	0.100	0.210	0.213	0.0975	0.0850 to 0.115	92.0	70.0 to 130	1.42	20.0	
BD20098	Barium, Total	mg/L	-0.0000192	0.00100	0.100	0.211	0.215	0.0957	0.0850 to 0.115	84.0	70.0 to 130	1.88	20.0	
BD20099	Beryllium, Dissolved	mg/L	0.0000056	0.000880	0.100	0.0988	0.103	0.102	0.0850 to 0.115	98.8	70.0 to 130	4.16	20.0	
BD20098	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0971	0.0991	0.100	0.0850 to 0.115	97.1	70.0 to 130	2.04	20.0	
BD20099	Boron, Dissolved	mg/L	-0.000794	0.0650	1.00	1.63	1.64	1.10	0.850 to 1.15	106	70.0 to 130	0.612	20.0	
BD20098	Boron, Total	mg/L	0.00016	0.0650	1.00	1.58	1.62	1.01	0.850 to 1.15	102	70.0 to 130	2.50	20.0	
BD20099	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0994	0.105	0.0850 to 0.115	98.7	70.0 to 130	0.707	20.0	
BD20098	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0977	0.0960	0.102	0.0850 to 0.115	97.7	70.0 to 130	1.76	20.0	
BD20099	Calcium, Dissolved	mg/L	-0.0586	0.152	5.00	129	128	4.36	4.25 to 5.75	80.0	70.0 to 130	0.778	20.0	
BD20098	Calcium, Total	mg/L	-0.0336	0.152	5.00	159	159	4.93	4.25 to 5.75	100	70.0 to 130	0.00	20.0	
BD20098	Chloride	mg/L	0.0518	1.00	10.0	22.1	22.0	10.2	9.00 to 11.0	93.0	80.0 to 120	0.454	20.0	
BD20099	Chromium, Dissolved	mg/L	-0.0000719	0.000440	0.100	0.0989	0.0985	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.405	20.0	
BD20098	Chromium, Total	mg/L	-0.0000794	0.000440	0.100	0.0976	0.0967	0.101	0.0850 to 0.115	97.0	70.0 to 130	0.926	20.0	
BD20099	Cobalt, Dissolved	mg/L	0.0000018	0.000147	0.100	0.122	0.121	0.107	0.0850 to 0.115	102	70.0 to 130	0.823	20.0	
BD20098	Cobalt, Total	mg/L	0.0000001	0.000147	0.100	0.121	0.120	0.104	0.0850 to 0.115	97.7	70.0 to 130	0.830	20.0	
BD20099	Iron, Dissolved	mg/L	-0.000421	0.0176	0.2	9.78	9.89	0.205	0.170 to 0.230	95.0	70.0 to 130	1.12	20.0	
BD20098	Iron, Total	mg/L	-0.000654	0.0176	0.2	12.0	11.7	0.204	0.170 to 0.230	50.0	70.0 to 130	2.53	20.0	
BD20099	Lead, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0961	0.103	0.101	0.0850 to 0.115	96.1	70.0 to 130	6.93	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 13:20  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-57H

**Laboratory ID Number:** BD20096

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD20098	Lead, Total	mg/L	0.0000036	0.000147	0.100	0.0970	0.0994	0.100	0.0850 to 0.115	97.0	70.0 to 130	2.44	20.0
BD20099	Lithium, Dissolved	mg/L	0.000587	0.0154	0.200	0.336	0.339	0.204	0.170 to 0.230	108	70.0 to 130	0.889	20.0
BD20098	Lithium, Total	mg/L	0.000259	0.0154	0.200	0.328	0.335	0.206	0.170 to 0.230	102	70.0 to 130	2.11	20.0
BD20099	Magnesium, Dissolved	mg/L	-0.00878	0.0462	5.00	22.4	22.4	4.26	4.25 to 5.75	116	70.0 to 130	0.00	20.0
BD20098	Magnesium, Total	mg/L	-0.0126	0.0462	5.00	21.6	22.0	5.10	4.25 to 5.75	98.0	70.0 to 130	1.83	20.0
BD20099	Manganese, Dissolved	mg/L	0.0000135	0.00033	0.100	4.49	4.48	0.101	0.0850 to 0.115	100	70.0 to 130	0.223	20.0
BD20098	Manganese, Total	mg/L	0.0000088	0.00033	0.100	4.72	4.59	0.0982	0.0850 to 0.115	220	70.0 to 130	2.79	20.0
BD20104	Mercury, Total by CVAA	mg/L	0.000338	0.000500	0.004	0.00353	0.00340	0.00401	0.00340 to 0.00460	88.2	70.0 to 130	3.75	20.0
BD20099	Molybdenum, Dissolved	mg/L	0.00031	0.0100	0.2	0.211	0.213	0.202	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BD20098	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.212	0.210	0.170 to 0.230	104	70.0 to 130	2.39	20.0
BD20099	Potassium, Dissolved	mg/L	0.00422	0.367	10.0	16.7	17.1	10.6	8.50 to 11.5	102	70.0 to 130	2.37	20.0
BD20098	Potassium, Total	mg/L	-0.0162	0.367	10.0	16.8	16.6	10.1	8.50 to 11.5	91.7	70.0 to 130	1.20	20.0
BD20099	Selenium, Dissolved	mg/L	0.000215	0.00100	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD20098	Selenium, Total	mg/L	0.0000222	0.00100	0.100	0.0989	0.0969	0.102	0.0850 to 0.115	98.9	70.0 to 130	2.04	20.0
BD20099	Silicon, Dissolved	mg/L	0.00091	0.0440	1.00	5.44	5.43	1.03	0.850 to 1.15	114	70.0 to 130	0.184	20.0
BD20098	Silicon, Total	mg/L	0.000484	0.0440	1.00	5.33	5.40	1.05	0.850 to 1.15	103	70.0 to 130	1.30	20.0
BD20099	Sodium, Dissolved	mg/L	0.00144	0.0880	5.00	34.8	35.1	5.01	4.25 to 5.75	116	70.0 to 130	0.858	20.0
BD20098	Sodium, Total	mg/L	0.00322	0.0880	5.00	33.2	33.7	5.12	4.25 to 5.75	98.0	70.0 to 130	1.49	20.0
BD20098	Sulfate	mg/L	-0.0356	2.0	400.0	679	670	20.3	18.0 to 22.0	96.0	80.0 to 120	1.33	20.0
BD20099	Thallium, Dissolved	mg/L	0.0000017	0.000147	0.100	0.0975	0.102	0.101	0.0850 to 0.115	97.5	70.0 to 130	4.51	20.0
BD20098	Thallium, Total	mg/L	0.0000134	0.000147	0.100	0.0970	0.101	0.0992	0.0850 to 0.115	97.0	70.0 to 130	4.04	20.0
BD20097	Total Organic Carbon	mg/L	0.253	1.00	10.0	10.9	11.5	10.3		91.2	80.0 to 120	5.36	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 13:20  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-57H

**Laboratory ID Number:** BD20096

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20104	Alkalinity	mg CaCO3/L					54.0	51.6	45.0 to 55.0			0.00	10.0
BD20096	Fluoride	mg/L	0.000000	0.0200	2.00	2.26	0.173	2.06	1.80 to 2.20	104	80.0 to 120	0.576	20.0
BD20098	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.01	0.022	1.95	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD20101	Solids, Dissolved	mg/L	2.00	25.0			449	56.0	40.0 to 60.0			0.666	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-45H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 14:27  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20097

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	11/3/23 11:25	11/7/23 15:01		1.015	0.511	mg/L	0.030000	0.1015	
* Calcium, Total	11/3/23 11:25	11/7/23 18:00		10.15	132	mg/L	0.70035	4.06	
* Iron, Total	11/3/23 11:25	11/7/23 15:01		1.015	0.430	mg/L	0.008120	0.0406	
* Lithium, Total	11/3/23 11:25	11/7/23 15:01		1.015	0.501	mg/L	0.007105	0.01999956	
* Magnesium, Total	11/3/23 11:25	11/7/23 15:01		1.015	29.2	mg/L	0.021315	0.406	
* Molybdenum, Total	11/3/23 11:25	11/7/23 15:01		1.015	0.0608	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	11/3/23 11:25	11/7/23 15:01		1	5.78	mg/L			
* Silicon, Total	11/3/23 11:25	11/7/23 15:01		1.015	2.70	mg/L	0.02030	0.25375	
* Sodium, Total	11/3/23 11:25	11/7/23 15:01		1.015	25.4	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	11/2/23 15:25	11/7/23 13:38		1.015	0.511	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/2/23 15:25	11/7/23 17:00		10.15	114	mg/L	0.70035	4.06	
* Iron, Dissolved	11/2/23 15:25	11/7/23 13:38		1.015	0.133	mg/L	0.008120	0.0406	
* Lithium, Dissolved	11/2/23 15:25	11/7/23 13:38		1.015	0.506	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	11/2/23 15:25	11/7/23 13:38		1.015	29.5	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	11/2/23 15:25	11/7/23 13:38		1.015	0.0597	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	11/2/23 15:25	11/7/23 13:38		1	5.67	mg/L			
* Silicon, Dissolved	11/2/23 15:25	11/7/23 13:38		1.015	2.65	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/2/23 15:25	11/7/23 13:38		1.015	25.7	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	11/3/23 11:25	11/3/23 19:16		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	11/3/23 11:25	11/3/23 19:16		1.015	0.0202	mg/L	0.009135	0.05075	J
* Arsenic, Total	11/3/23 11:25	11/3/23 19:16		1.015	0.000744	mg/L	0.000112	0.000203	
* Barium, Total	11/3/23 11:25	11/3/23 19:16		1.015	0.0493	mg/L	0.000508	0.001015	
* Beryllium, Total	11/3/23 11:25	11/3/23 19:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/3/23 11:25	11/3/23 19:16		1.015	0.000128	mg/L	0.000068	0.000203	J
* Chromium, Total	11/3/23 11:25	11/3/23 19:16		1.015	0.000278	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/3/23 11:25	11/3/23 19:16		1.015	0.00947	mg/L	0.000068	0.000203	
* Lead, Total	11/3/23 11:25	11/3/23 19:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/3/23 11:25	11/7/23 16:59		5.075	4.94	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-45H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 14:27  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20097

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	11/3/23 11:25	11/3/23 19:16		1.015	8.99	mg/L	0.169505	0.5075	
* Selenium, Total	11/3/23 11:25	11/3/23 19:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/3/23 11:25	11/3/23 19:16		1.015	0.000248	mg/L	0.000068	0.000203	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	11/2/23 15:25	11/3/23 15:54		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	11/2/23 15:25	11/3/23 15:54		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	11/2/23 15:25	11/3/23 15:54		1.015	0.000389	mg/L	0.000112	0.000203	
* Barium, Dissolved	11/2/23 15:25	11/3/23 15:54		1.015	0.0490	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/2/23 15:25	11/3/23 15:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/2/23 15:25	11/3/23 15:54		1.015	0.000106	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	11/2/23 15:25	11/3/23 15:54		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/2/23 15:25	11/3/23 15:54		1.015	0.00894	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/2/23 15:25	11/3/23 15:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/2/23 15:25	11/7/23 16:02		5.075	4.86	mg/L	0.000761	0.005075	
* Potassium, Dissolved	11/2/23 15:25	11/3/23 15:54		1.015	9.08	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/2/23 15:25	11/3/23 15:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/2/23 15:25	11/3/23 15:54		1.015	0.000248	mg/L	0.000068	0.000203	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/7/23 13:27	11/8/23 16:15		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/16/23 01:48	11/16/23 01:48		1	0.157	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	11/7/23 18:14	11/7/23 18:14		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/14/23 08:30	11/14/23 09:34		1	4.48	SU		2	
* Alkalinity	11/14/23 08:30	11/14/23 09:34		1	110	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	11/2/23 15:00	11/7/23 15:15		1	575	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 09:34		1	110	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 09:34		1	Not Detected	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-45H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 14:27  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20097

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	11/7/23 15:59	11/7/23 15:59		1	1.78	mg/L	1.00	2	J
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	11/3/23 09:41	11/3/23 09:41		1	10.3	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 10:20	11/7/23 10:20		16	309	mg/L	9.6	32	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/31/23 14:23	10/31/23 14:23			717.04	uS/cm			FA
pH	10/31/23 14:23	10/31/23 14:23			6.83	SU			FA
Temperature	10/31/23 14:23	10/31/23 14:23			20.73	C			FA
Turbidity	10/31/23 14:23	10/31/23 14:23			2.97	NTU			FA
Sulfide	10/31/23 14:23	10/31/23 14:23			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 14:27  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-45H

**Laboratory ID Number:** BD20097

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BD20099	Aluminum, Dissolved	mg/L	0.000413	0.0198	0.100	0.0957	0.0982	0.0995	0.0850 to 0.115	95.7	70.0 to 130	2.58	20.0
BD20098	Aluminum, Total	mg/L	0.000983	0.0198	0.100	0.116	0.115	0.0979	0.0850 to 0.115	95.1	70.0 to 130	0.866	20.0
BD20099	Antimony, Dissolved	mg/L	0.000364	0.00100	0.100	0.103	0.103	0.0947	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD20098	Antimony, Total	mg/L	0.000387	0.00100	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD20099	Arsenic, Dissolved	mg/L	-0.0000009	0.000200	0.100	0.0955	0.0951	0.0979	0.0850 to 0.115	93.5	70.0 to 130	0.420	20.0
BD20098	Arsenic, Total	mg/L	0.0000176	0.000200	0.100	0.0947	0.0962	0.0971	0.0850 to 0.115	92.7	70.0 to 130	1.57	20.0
BD20099	Barium, Dissolved	mg/L	0.0000108	0.00100	0.100	0.210	0.213	0.0975	0.0850 to 0.115	92.0	70.0 to 130	1.42	20.0
BD20098	Barium, Total	mg/L	-0.0000192	0.00100	0.100	0.211	0.215	0.0957	0.0850 to 0.115	84.0	70.0 to 130	1.88	20.0
BD20099	Beryllium, Dissolved	mg/L	0.0000056	0.000880	0.100	0.0988	0.103	0.102	0.0850 to 0.115	98.8	70.0 to 130	4.16	20.0
BD20098	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0971	0.0991	0.100	0.0850 to 0.115	97.1	70.0 to 130	2.04	20.0
BD20099	Boron, Dissolved	mg/L	-0.000794	0.0650	1.00	1.63	1.64	1.10	0.850 to 1.15	106	70.0 to 130	0.612	20.0
BD20098	Boron, Total	mg/L	0.00016	0.0650	1.00	1.58	1.62	1.01	0.850 to 1.15	102	70.0 to 130	2.50	20.0
BD20099	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0994	0.105	0.0850 to 0.115	98.7	70.0 to 130	0.707	20.0
BD20098	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0977	0.0960	0.102	0.0850 to 0.115	97.7	70.0 to 130	1.76	20.0
BD20099	Calcium, Dissolved	mg/L	-0.0586	0.152	5.00	129	128	4.36	4.25 to 5.75	80.0	70.0 to 130	0.778	20.0
BD20098	Calcium, Total	mg/L	-0.0336	0.152	5.00	159	159	4.93	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD20098	Chloride	mg/L	0.0518	1.00	10.0	22.1	22.0	10.2	9.00 to 11.0	93.0	80.0 to 120	0.454	20.0
BD20099	Chromium, Dissolved	mg/L	-0.0000719	0.000440	0.100	0.0989	0.0985	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.405	20.0
BD20098	Chromium, Total	mg/L	-0.0000794	0.000440	0.100	0.0976	0.0967	0.101	0.0850 to 0.115	97.0	70.0 to 130	0.926	20.0
BD20099	Cobalt, Dissolved	mg/L	0.0000018	0.000147	0.100	0.122	0.121	0.107	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BD20098	Cobalt, Total	mg/L	0.0000001	0.000147	0.100	0.121	0.120	0.104	0.0850 to 0.115	97.7	70.0 to 130	0.830	20.0
BD20099	Iron, Dissolved	mg/L	-0.000421	0.0176	0.2	9.78	9.89	0.205	0.170 to 0.230	95.0	70.0 to 130	1.12	20.0
BD20098	Iron, Total	mg/L	-0.000654	0.0176	0.2	12.0	11.7	0.204	0.170 to 0.230	50.0	70.0 to 130	2.53	20.0
BD20099	Lead, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0961	0.103	0.101	0.0850 to 0.115	96.1	70.0 to 130	6.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 14:27  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-45H

**Laboratory ID Number:** BD20097

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD20098	Lead, Total	mg/L	0.0000036	0.000147	0.100	0.0970	0.0994	0.100	0.0850 to 0.115	97.0	70.0 to 130	2.44	20.0
BD20099	Lithium, Dissolved	mg/L	0.000587	0.0154	0.200	0.336	0.339	0.204	0.170 to 0.230	108	70.0 to 130	0.889	20.0
BD20098	Lithium, Total	mg/L	0.000259	0.0154	0.200	0.328	0.335	0.206	0.170 to 0.230	102	70.0 to 130	2.11	20.0
BD20099	Magnesium, Dissolved	mg/L	-0.00878	0.0462	5.00	22.4	22.4	4.26	4.25 to 5.75	116	70.0 to 130	0.00	20.0
BD20098	Magnesium, Total	mg/L	-0.0126	0.0462	5.00	21.6	22.0	5.10	4.25 to 5.75	98.0	70.0 to 130	1.83	20.0
BD20099	Manganese, Dissolved	mg/L	0.0000135	0.00033	0.100	4.49	4.48	0.101	0.0850 to 0.115	100	70.0 to 130	0.223	20.0
BD20098	Manganese, Total	mg/L	0.0000088	0.00033	0.100	4.72	4.59	0.0982	0.0850 to 0.115	220	70.0 to 130	2.79	20.0
BD20104	Mercury, Total by CVAA	mg/L	0.000338	0.000500	0.004	0.00353	0.00340	0.00401	0.00340 to 0.00460	88.2	70.0 to 130	3.75	20.0
BD20099	Molybdenum, Dissolved	mg/L	0.00031	0.0100	0.2	0.211	0.213	0.202	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BD20098	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.212	0.210	0.170 to 0.230	104	70.0 to 130	2.39	20.0
BD20099	Potassium, Dissolved	mg/L	0.00422	0.367	10.0	16.7	17.1	10.6	8.50 to 11.5	102	70.0 to 130	2.37	20.0
BD20098	Potassium, Total	mg/L	-0.0162	0.367	10.0	16.8	16.6	10.1	8.50 to 11.5	91.7	70.0 to 130	1.20	20.0
BD20099	Selenium, Dissolved	mg/L	0.000215	0.00100	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD20098	Selenium, Total	mg/L	0.0000222	0.00100	0.100	0.0989	0.0969	0.102	0.0850 to 0.115	98.9	70.0 to 130	2.04	20.0
BD20099	Silicon, Dissolved	mg/L	0.00091	0.0440	1.00	5.44	5.43	1.03	0.850 to 1.15	114	70.0 to 130	0.184	20.0
BD20098	Silicon, Total	mg/L	0.000484	0.0440	1.00	5.33	5.40	1.05	0.850 to 1.15	103	70.0 to 130	1.30	20.0
BD20099	Sodium, Dissolved	mg/L	0.00144	0.0880	5.00	34.8	35.1	5.01	4.25 to 5.75	116	70.0 to 130	0.858	20.0
BD20098	Sodium, Total	mg/L	0.00322	0.0880	5.00	33.2	33.7	5.12	4.25 to 5.75	98.0	70.0 to 130	1.49	20.0
BD20098	Sulfate	mg/L	-0.0356	2.0	400.0	679	670	20.3	18.0 to 22.0	96.0	80.0 to 120	1.33	20.0
BD20099	Thallium, Dissolved	mg/L	0.0000017	0.000147	0.100	0.0975	0.102	0.101	0.0850 to 0.115	97.5	70.0 to 130	4.51	20.0
BD20098	Thallium, Total	mg/L	0.0000134	0.000147	0.100	0.0970	0.101	0.0992	0.0850 to 0.115	97.0	70.0 to 130	4.04	20.0
BD20097	Total Organic Carbon	mg/L	0.253	1.00	10.0	10.9	11.5	10.3		91.2	80.0 to 120	5.36	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 14:27  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-45H

**Laboratory ID Number:** BD20097

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20104	Alkalinity	mg CaCO3/L					54.0	51.6	45.0 to 55.0			0.00	10.0
BD20105	Fluoride	mg/L	0.000000	0.0200	2.00	2.12	0.000000	2.09	1.80 to 2.20	106	80.0 to 120	0.00	20.0
BD20098	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.01	0.022	1.95	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD20101	Solids, Dissolved	mg/L	2.00	25.0			449	56.0	40.0 to 60.0			0.666	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-41H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 15:17  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20098

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	11/3/23 11:25	11/7/23 15:04		1.015	0.564	mg/L	0.030000	0.1015		
* Calcium, Total	11/3/23 11:25	11/7/23 18:03		10.15	154	mg/L	0.70035	4.06		
* Iron, Total	11/3/23 11:25	11/7/23 18:03		10.15	11.9	mg/L	0.08120	0.406	RA	
* Lithium, Total	11/3/23 11:25	11/7/23 15:04		1.015	0.125	mg/L	0.007105	0.01999956		
* Magnesium, Total	11/3/23 11:25	11/7/23 15:04		1.015	16.7	mg/L	0.021315	0.406		
* Molybdenum, Total	11/3/23 11:25	11/7/23 15:04		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	11/3/23 11:25	11/7/23 15:04		1	9.20	mg/L				
* Silicon, Total	11/3/23 11:25	11/7/23 15:04		1.015	4.30	mg/L	0.02030	0.25375		
* Sodium, Total	11/3/23 11:25	11/7/23 15:04		1.015	28.3	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	11/2/23 15:25	11/7/23 13:42		1.015	0.569	mg/L	0.030000	0.1015		
* Calcium, Dissolved	11/2/23 15:25	11/7/23 17:03		10.15	130	mg/L	0.70035	4.06		
* Iron, Dissolved	11/2/23 15:25	11/7/23 17:03		10.15	9.79	mg/L	0.08120	0.406		
* Lithium, Dissolved	11/2/23 15:25	11/7/23 13:42		1.015	0.118	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	11/2/23 15:25	11/7/23 13:42		1.015	16.6	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	11/2/23 15:25	11/7/23 13:42		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	11/2/23 15:25	11/7/23 13:42		1	9.20	mg/L				
* Silicon, Dissolved	11/2/23 15:25	11/7/23 13:42		1.015	4.30	mg/L	0.02030	0.25375		
* Sodium, Dissolved	11/2/23 15:25	11/7/23 13:42		1.015	28.8	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	11/3/23 11:25	11/3/23 19:20		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	11/3/23 11:25	11/3/23 19:20		1.015	0.0209	mg/L	0.009135	0.05075	J	
* Arsenic, Total	11/3/23 11:25	11/3/23 19:20		1.015	0.00200	mg/L	0.000112	0.000203		
* Barium, Total	11/3/23 11:25	11/3/23 19:20		1.015	0.127	mg/L	0.000508	0.001015		
* Beryllium, Total	11/3/23 11:25	11/3/23 19:20		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	11/3/23 11:25	11/3/23 19:20		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	11/3/23 11:25	11/3/23 19:20		1.015	0.000612	mg/L	0.000203	0.001015	J	
* Cobalt, Total	11/3/23 11:25	11/3/23 19:20		1.015	0.0233	mg/L	0.000068	0.000203		
* Lead, Total	11/3/23 11:25	11/3/23 19:20		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	11/3/23 11:25	11/7/23 17:02		5.075	4.50	mg/L	0.000761	0.005075	RA	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-41H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 15:17  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20098

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	11/3/23 11:25	11/3/23 19:20		1.015	7.63	mg/L	0.169505	0.5075	
* Selenium, Total	11/3/23 11:25	11/3/23 19:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/3/23 11:25	11/3/23 19:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	11/2/23 15:25	11/3/23 15:57		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	11/2/23 15:25	11/3/23 15:57		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	11/2/23 15:25	11/3/23 15:57		1.015	0.00193	mg/L	0.000112	0.000203	
* Barium, Dissolved	11/2/23 15:25	11/3/23 15:57		1.015	0.114	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/2/23 15:25	11/3/23 15:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/2/23 15:25	11/3/23 15:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/2/23 15:25	11/3/23 15:57		1.015	0.000217	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/2/23 15:25	11/3/23 15:57		1.015	0.0209	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/2/23 15:25	11/3/23 15:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/2/23 15:25	11/7/23 16:06		5.075	4.41	mg/L	0.000761	0.005075	
* Potassium, Dissolved	11/2/23 15:25	11/3/23 15:57		1.015	6.82	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/2/23 15:25	11/3/23 15:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/2/23 15:25	11/3/23 15:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/7/23 13:27	11/8/23 16:18		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/16/23 02:11	11/16/23 02:11		1	0.0601	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	11/7/23 18:16	11/7/23 18:16		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/14/23 08:30	11/14/23 09:49		1	4.49	SU		2	
* Alkalinity	11/14/23 08:30	11/14/23 09:49		1	116	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	11/2/23 15:00	11/7/23 15:15		1	574	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 09:49		1	116	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 09:49		1	Not Detected	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-41H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 15:17  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20098

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	11/7/23 17:11	11/7/23 17:11		1	2.36	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	11/3/23 09:42	11/3/23 09:42		1	12.8	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 10:39	11/7/23 10:39		20	295	mg/L	12.0	40	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/31/23 15:14	10/31/23 15:14			702.32	uS/cm			FA
pH	10/31/23 15:14	10/31/23 15:14			6.48	SU			FA
Temperature	10/31/23 15:14	10/31/23 15:14			20.36	C			FA
Turbidity	10/31/23 15:14	10/31/23 15:14			6.12	NTU			FA
Sulfide	10/31/23 15:14	10/31/23 15:14			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 15:17  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-41H

**Laboratory ID Number:** BD20098

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD20099	Aluminum, Dissolved	mg/L	0.000413	0.0198	0.100	0.0957	0.0982	0.0995	0.0850 to 0.115	95.7	70.0 to 130	2.58	20.0
BD20098	Aluminum, Total	mg/L	0.000983	0.0198	0.100	0.116	0.115	0.0979	0.0850 to 0.115	95.1	70.0 to 130	0.866	20.0
BD20099	Antimony, Dissolved	mg/L	0.000364	0.00100	0.100	0.103	0.103	0.0947	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD20098	Antimony, Total	mg/L	0.000387	0.00100	0.100	0.103	0.104	0.102	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BD20099	Arsenic, Dissolved	mg/L	-0.0000009	0.000200	0.100	0.0955	0.0951	0.0979	0.0850 to 0.115	93.5	70.0 to 130	0.420	20.0
BD20098	Arsenic, Total	mg/L	0.0000176	0.000200	0.100	0.0947	0.0962	0.0971	0.0850 to 0.115	92.7	70.0 to 130	1.57	20.0
BD20099	Barium, Dissolved	mg/L	0.0000108	0.00100	0.100	0.210	0.213	0.0975	0.0850 to 0.115	92.0	70.0 to 130	1.42	20.0
BD20098	Barium, Total	mg/L	-0.0000192	0.00100	0.100	0.211	0.215	0.0957	0.0850 to 0.115	84.0	70.0 to 130	1.88	20.0
BD20099	Beryllium, Dissolved	mg/L	0.0000056	0.000880	0.100	0.0988	0.103	0.102	0.0850 to 0.115	98.8	70.0 to 130	4.16	20.0
BD20098	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0971	0.0991	0.100	0.0850 to 0.115	97.1	70.0 to 130	2.04	20.0
BD20099	Boron, Dissolved	mg/L	-0.000794	0.0650	1.00	1.63	1.64	1.10	0.850 to 1.15	106	70.0 to 130	0.612	20.0
BD20098	Boron, Total	mg/L	0.00016	0.0650	1.00	1.58	1.62	1.01	0.850 to 1.15	102	70.0 to 130	2.50	20.0
BD20099	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0994	0.105	0.0850 to 0.115	98.7	70.0 to 130	0.707	20.0
BD20098	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0977	0.0960	0.102	0.0850 to 0.115	97.7	70.0 to 130	1.76	20.0
BD20099	Calcium, Dissolved	mg/L	-0.0586	0.152	5.00	129	128	4.36	4.25 to 5.75	80.0	70.0 to 130	0.778	20.0
BD20098	Calcium, Total	mg/L	-0.0336	0.152	5.00	159	159	4.93	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BD20098	Chloride	mg/L	0.0518	1.00	10.0	22.1	22.0	10.2	9.00 to 11.0	93.0	80.0 to 120	0.454	20.0
BD20099	Chromium, Dissolved	mg/L	-0.0000719	0.000440	0.100	0.0989	0.0985	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.405	20.0
BD20098	Chromium, Total	mg/L	-0.0000794	0.000440	0.100	0.0976	0.0967	0.101	0.0850 to 0.115	97.0	70.0 to 130	0.926	20.0
BD20099	Cobalt, Dissolved	mg/L	0.0000018	0.000147	0.100	0.122	0.121	0.107	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BD20098	Cobalt, Total	mg/L	0.0000001	0.000147	0.100	0.121	0.120	0.104	0.0850 to 0.115	97.7	70.0 to 130	0.830	20.0
BD20099	Iron, Dissolved	mg/L	-0.000421	0.0176	0.2	9.78	9.89	0.205	0.170 to 0.230	95.0	70.0 to 130	1.12	20.0
BD20098	Iron, Total	mg/L	-0.000654	0.0176	0.2	12.0	11.7	0.204	0.170 to 0.230	50.0	70.0 to 130	2.53	20.0
BD20099	Lead, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0961	0.103	0.101	0.0850 to 0.115	96.1	70.0 to 130	6.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 15:17  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-41H

**Laboratory ID Number:** BD20098

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD20098	Lead, Total	mg/L	0.0000036	0.000147	0.100	0.0970	0.0994	0.100	0.0850 to 0.115	97.0	70.0 to 130	2.44	20.0
BD20099	Lithium, Dissolved	mg/L	0.000587	0.0154	0.200	0.336	0.339	0.204	0.170 to 0.230	108	70.0 to 130	0.889	20.0
BD20098	Lithium, Total	mg/L	0.000259	0.0154	0.200	0.328	0.335	0.206	0.170 to 0.230	102	70.0 to 130	2.11	20.0
BD20099	Magnesium, Dissolved	mg/L	-0.00878	0.0462	5.00	22.4	22.4	4.26	4.25 to 5.75	116	70.0 to 130	0.00	20.0
BD20098	Magnesium, Total	mg/L	-0.0126	0.0462	5.00	21.6	22.0	5.10	4.25 to 5.75	98.0	70.0 to 130	1.83	20.0
BD20099	Manganese, Dissolved	mg/L	0.0000135	0.00033	0.100	4.49	4.48	0.101	0.0850 to 0.115	100	70.0 to 130	0.223	20.0
BD20098	Manganese, Total	mg/L	0.0000088	0.00033	0.100	4.72	4.59	0.0982	0.0850 to 0.115	220	70.0 to 130	2.79	20.0
BD20104	Mercury, Total by CVAA	mg/L	0.000338	0.000500	0.004	0.00353	0.00340	0.00401	0.00340 to 0.00460	88.2	70.0 to 130	3.75	20.0
BD20099	Molybdenum, Dissolved	mg/L	0.00031	0.0100	0.2	0.211	0.213	0.202	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BD20098	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.207	0.212	0.210	0.170 to 0.230	104	70.0 to 130	2.39	20.0
BD20099	Potassium, Dissolved	mg/L	0.00422	0.367	10.0	16.7	17.1	10.6	8.50 to 11.5	102	70.0 to 130	2.37	20.0
BD20098	Potassium, Total	mg/L	-0.0162	0.367	10.0	16.8	16.6	10.1	8.50 to 11.5	91.7	70.0 to 130	1.20	20.0
BD20099	Selenium, Dissolved	mg/L	0.000215	0.00100	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD20098	Selenium, Total	mg/L	0.0000222	0.00100	0.100	0.0989	0.0969	0.102	0.0850 to 0.115	98.9	70.0 to 130	2.04	20.0
BD20099	Silicon, Dissolved	mg/L	0.00091	0.0440	1.00	5.44	5.43	1.03	0.850 to 1.15	114	70.0 to 130	0.184	20.0
BD20098	Silicon, Total	mg/L	0.000484	0.0440	1.00	5.33	5.40	1.05	0.850 to 1.15	103	70.0 to 130	1.30	20.0
BD20099	Sodium, Dissolved	mg/L	0.00144	0.0880	5.00	34.8	35.1	5.01	4.25 to 5.75	116	70.0 to 130	0.858	20.0
BD20098	Sodium, Total	mg/L	0.00322	0.0880	5.00	33.2	33.7	5.12	4.25 to 5.75	98.0	70.0 to 130	1.49	20.0
BD20098	Sulfate	mg/L	-0.0356	2.0	400.0	679	670	20.3	18.0 to 22.0	96.0	80.0 to 120	1.33	20.0
BD20099	Thallium, Dissolved	mg/L	0.0000017	0.000147	0.100	0.0975	0.102	0.101	0.0850 to 0.115	97.5	70.0 to 130	4.51	20.0
BD20098	Thallium, Total	mg/L	0.0000134	0.000147	0.100	0.0970	0.101	0.0992	0.0850 to 0.115	97.0	70.0 to 130	4.04	20.0
BD20104	Total Organic Carbon	mg/L	0.230	1.00	10.0	12.0	12.1	9.26		94.5	80.0 to 120	0.830	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 15:17  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-41H

**Laboratory ID Number:** BD20098

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BD20104	Alkalinity	mg CaCO3/L					54.0	51.6	45.0 to 55.0			0.00	10.0
BD20105	Fluoride	mg/L	0.000000	0.0200	2.00	2.12	0.000000	2.09	1.80 to 2.20	106	80.0 to 120	0.00	20.0
BD20098	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.01	0.022	1.95	1.80 to 2.20	100	90.0 to 110	0.00	15.0
BD20101	Solids, Dissolved	mg/L	2.00	25.0			449	56.0	40.0 to 60.0			0.666	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-41H Dup

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 15:17  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20099

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	11/3/23 11:25	11/7/23 15:20		1.015	0.568	mg/L	0.030000	0.1015	
* Calcium, Total	11/3/23 11:25	11/7/23 18:13		10.15	149	mg/L	0.70035	4.06	
* Iron, Total	11/3/23 11:25	11/7/23 18:13		10.15	11.5	mg/L	0.08120	0.406	
* Lithium, Total	11/3/23 11:25	11/7/23 15:20		1.015	0.127	mg/L	0.007105	0.01999956	
* Magnesium, Total	11/3/23 11:25	11/7/23 15:20		1.015	16.8	mg/L	0.021315	0.406	
* Molybdenum, Total	11/3/23 11:25	11/7/23 15:20		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	11/3/23 11:25	11/7/23 15:20		1	9.24	mg/L			
* Silicon, Total	11/3/23 11:25	11/7/23 15:20		1.015	4.32	mg/L	0.02030	0.25375	
* Sodium, Total	11/3/23 11:25	11/7/23 15:20		1.015	28.7	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>							
* Boron, Dissolved	11/2/23 15:25	11/7/23 13:45		1.015	0.569	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/2/23 15:25	11/7/23 17:06		10.15	125	mg/L	0.70035	4.06	RA
* Iron, Dissolved	11/2/23 15:25	11/7/23 17:06		10.15	9.59	mg/L	0.08120	0.406	RA
* Lithium, Dissolved	11/2/23 15:25	11/7/23 13:45		1.015	0.121	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	11/2/23 15:25	11/7/23 13:45		1.015	16.6	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	11/2/23 15:25	11/7/23 13:45		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	11/2/23 15:25	11/7/23 13:45		1	9.20	mg/L			
* Silicon, Dissolved	11/2/23 15:25	11/7/23 13:45		1.015	4.30	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/2/23 15:25	11/7/23 13:45		1.015	29.0	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	11/3/23 11:25	11/3/23 19:43		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	11/3/23 11:25	11/3/23 19:43		1.015	0.0197	mg/L	0.009135	0.05075	J
* Arsenic, Total	11/3/23 11:25	11/3/23 19:43		1.015	0.00207	mg/L	0.000112	0.000203	
* Barium, Total	11/3/23 11:25	11/3/23 19:43		1.015	0.120	mg/L	0.000508	0.001015	
* Beryllium, Total	11/3/23 11:25	11/3/23 19:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/3/23 11:25	11/3/23 19:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/3/23 11:25	11/3/23 19:43		1.015	0.000272	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/3/23 11:25	11/3/23 19:43		1.015	0.0211	mg/L	0.000068	0.000203	
* Lead, Total	11/3/23 11:25	11/3/23 19:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/3/23 11:25	11/7/23 17:14		5.075	4.93	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-41H Dup

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 15:17  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20099

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	11/3/23 11:25	11/3/23 19:43		1.015	6.76	mg/L	0.169505	0.5075	
* Selenium, Total	11/3/23 11:25	11/3/23 19:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/3/23 11:25	11/3/23 19:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	11/2/23 15:25	11/3/23 16:01		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	11/2/23 15:25	11/3/23 16:01		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	11/2/23 15:25	11/3/23 16:01		1.015	0.00204	mg/L	0.000112	0.000203	
* Barium, Dissolved	11/2/23 15:25	11/3/23 16:01		1.015	0.118	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/2/23 15:25	11/3/23 16:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/2/23 15:25	11/3/23 16:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/2/23 15:25	11/3/23 16:01		1.015	0.000209	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/2/23 15:25	11/3/23 16:01		1.015	0.0203	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/2/23 15:25	11/3/23 16:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/2/23 15:25	11/7/23 16:10		5.075	4.39	mg/L	0.000761	0.005075	
* Potassium, Dissolved	11/2/23 15:25	11/3/23 16:01		1.015	6.51	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/2/23 15:25	11/3/23 16:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/2/23 15:25	11/3/23 16:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/7/23 13:27	11/8/23 16:20		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/16/23 02:35	11/16/23 02:35		1	0.0599	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	11/7/23 18:25	11/7/23 18:25		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/14/23 08:30	11/14/23 10:04		1	4.46	SU		2	
* Alkalinity	11/14/23 08:30	11/14/23 10:04		1	117	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	11/2/23 15:00	11/7/23 15:15		1	570	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 10:04		1	117	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 10:04		1	Not Detected	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-41H Dup

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 15:17  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20099

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	11/7/23 17:27	11/7/23 17:27		1	2.14	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	11/3/23 09:56	11/3/23 09:56		1	12.9	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 10:59	11/7/23 10:59		16	300	mg/L	9.6	32	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/31/23 15:14	10/31/23 15:14			702.32	uS/cm			FA
pH	10/31/23 15:14	10/31/23 15:14			6.48	SU			FA
Temperature	10/31/23 15:14	10/31/23 15:14			20.36	C			FA
Turbidity	10/31/23 15:14	10/31/23 15:14			6.12	NTU			FA
Sulfide	10/31/23 15:14	10/31/23 15:14			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 15:17  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-41H Dup

**Laboratory ID Number:** BD20099

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD20099	Aluminum, Dissolved	mg/L	0.000413	0.0198	0.100	0.0957	0.0982	0.0995	0.0850 to 0.115	95.7	70.0 to 130	2.58	20.0
BD20105	Aluminum, Total	mg/L	0.000983	0.0198	0.100	0.0992	0.101	0.0979	0.0850 to 0.115	99.2	70.0 to 130	1.80	20.0
BD20099	Antimony, Dissolved	mg/L	0.000364	0.00100	0.100	0.103	0.103	0.0947	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD20105	Antimony, Total	mg/L	0.000387	0.00100	0.100	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD20099	Arsenic, Dissolved	mg/L	-0.0000009	0.000200	0.100	0.0955	0.0951	0.0979	0.0850 to 0.115	93.5	70.0 to 130	0.420	20.0
BD20105	Arsenic, Total	mg/L	0.0000176	0.000200	0.100	0.0926	0.0972	0.0971	0.0850 to 0.115	92.6	70.0 to 130	4.85	20.0
BD20099	Barium, Dissolved	mg/L	0.0000108	0.00100	0.100	0.210	0.213	0.0975	0.0850 to 0.115	92.0	70.0 to 130	1.42	20.0
BD20105	Barium, Total	mg/L	-0.0000192	0.00100	0.100	0.101	0.0985	0.0957	0.0850 to 0.115	101	70.0 to 130	2.51	20.0
BD20099	Beryllium, Dissolved	mg/L	0.0000056	0.000880	0.100	0.0988	0.103	0.102	0.0850 to 0.115	98.8	70.0 to 130	4.16	20.0
BD20105	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0977	0.0983	0.100	0.0850 to 0.115	97.7	70.0 to 130	0.612	20.0
BD20099	Boron, Dissolved	mg/L	-0.000794	0.0650	1.00	1.63	1.64	1.10	0.850 to 1.15	106	70.0 to 130	0.612	20.0
BD20105	Boron, Total	mg/L	0.00016	0.0650	1.00	1.00	1.01	1.01	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD20099	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0987	0.0994	0.105	0.0850 to 0.115	98.7	70.0 to 130	0.707	20.0
BD20105	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0994	0.101	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BD20099	Calcium, Dissolved	mg/L	-0.0586	0.152	5.00	129	128	4.36	4.25 to 5.75	80.0	70.0 to 130	0.778	20.0
BD20105	Calcium, Total	mg/L	-0.0336	0.152	5.00	4.90	4.93	4.93	4.25 to 5.75	98.0	70.0 to 130	0.610	20.0
BD20105	Chloride	mg/L	0.0507	1.00	10.0	10.2	10.2	10.2	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BD20099	Chromium, Dissolved	mg/L	-0.0000719	0.000440	0.100	0.0989	0.0985	0.104	0.0850 to 0.115	98.7	70.0 to 130	0.405	20.0
BD20105	Chromium, Total	mg/L	-0.0000794	0.000440	0.100	0.101	0.0998	0.101	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD20099	Cobalt, Dissolved	mg/L	0.0000018	0.000147	0.100	0.122	0.121	0.107	0.0850 to 0.115	102	70.0 to 130	0.823	20.0
BD20105	Cobalt, Total	mg/L	0.0000001	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD20099	Iron, Dissolved	mg/L	-0.000421	0.0176	0.2	9.78	9.89	0.205	0.170 to 0.230	95.0	70.0 to 130	1.12	20.0
BD20105	Iron, Total	mg/L	-0.000654	0.0176	0.2	0.202	0.203	0.204	0.170 to 0.230	101	70.0 to 130	0.494	20.0
BD20099	Lead, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0961	0.103	0.101	0.0850 to 0.115	96.1	70.0 to 130	6.93	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 15:17  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-41H Dup

**Laboratory ID Number:** BD20099

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD20105	Lead, Total	mg/L	0.0000036	0.000147	0.100	0.0989	0.0984	0.100	0.0850 to 0.115	98.9	70.0 to 130	0.507	20.0
BD20099	Lithium, Dissolved	mg/L	0.000587	0.0154	0.200	0.336	0.339	0.204	0.170 to 0.230	108	70.0 to 130	0.889	20.0
BD20105	Lithium, Total	mg/L	0.000259	0.0154	0.200	0.202	0.204	0.206	0.170 to 0.230	101	70.0 to 130	0.985	20.0
BD20099	Magnesium, Dissolved	mg/L	-0.00878	0.0462	5.00	22.4	22.4	4.26	4.25 to 5.75	116	70.0 to 130	0.00	20.0
BD20105	Magnesium, Total	mg/L	-0.0126	0.0462	5.00	5.01	5.07	5.10	4.25 to 5.75	100	70.0 to 130	1.19	20.0
BD20099	Manganese, Dissolved	mg/L	0.0000135	0.00033	0.100	4.49	4.48	0.101	0.0850 to 0.115	100	70.0 to 130	0.223	20.0
BD20105	Manganese, Total	mg/L	0.0000088	0.00033	0.100	0.0993	0.0990	0.0982	0.0850 to 0.115	99.3	70.0 to 130	0.303	20.0
BD20104	Mercury, Total by CVAA	mg/L	0.000338	0.000500	0.004	0.00353	0.00340	0.00401	0.00340 to 0.00460	88.2	70.0 to 130	3.75	20.0
BD20099	Molybdenum, Dissolved	mg/L	0.00031	0.0100	0.2	0.211	0.213	0.202	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BD20105	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.210	0.210	0.210	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BD20099	Potassium, Dissolved	mg/L	0.00422	0.367	10.0	16.7	17.1	10.6	8.50 to 11.5	102	70.0 to 130	2.37	20.0
BD20105	Potassium, Total	mg/L	-0.0162	0.367	10.0	10.3	10.2	10.1	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BD20099	Selenium, Dissolved	mg/L	0.000215	0.00100	0.100	0.101	0.103	0.103	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD20105	Selenium, Total	mg/L	0.0000222	0.00100	0.100	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD20099	Silicon, Dissolved	mg/L	0.00091	0.0440	1.00	5.44	5.43	1.03	0.850 to 1.15	114	70.0 to 130	0.184	20.0
BD20105	Silicon, Total	mg/L	0.000484	0.0440	1.00	1.04	1.04	1.05	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD20099	Sodium, Dissolved	mg/L	0.00144	0.0880	5.00	34.8	35.1	5.01	4.25 to 5.75	116	70.0 to 130	0.858	20.0
BD20105	Sodium, Total	mg/L	0.00322	0.0880	5.00	5.02	5.07	5.12	4.25 to 5.75	100	70.0 to 130	0.991	20.0
BD20105	Sulfate	mg/L	0.122	2.0	20.0	20.3	20.0	20.4	18.0 to 22.0	102	80.0 to 120	1.49	20.0
BD20099	Thallium, Dissolved	mg/L	0.0000017	0.000147	0.100	0.0975	0.102	0.101	0.0850 to 0.115	97.5	70.0 to 130	4.51	20.0
BD20105	Thallium, Total	mg/L	0.0000134	0.000147	0.100	0.0991	0.0995	0.0992	0.0850 to 0.115	99.1	70.0 to 130	0.403	20.0
BD20104	Total Organic Carbon	mg/L	0.230	1.00	10.0	12.0	12.1	9.26		94.5	80.0 to 120	0.830	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 15:17  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-41H Dup

**Laboratory ID Number:** BD20099

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20104	Alkalinity	mg CaCO3/L					54.0	51.6	45.0 to 55.0			0.00	10.0
BD20105	Fluoride	mg/L	0.000000	0.0200	2.00	2.12	0.000000	2.09	1.80 to 2.20	106	80.0 to 120	0.00	20.0
BD20105	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.20	0.025	1.94	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BD20101	Solids, Dissolved	mg/L	2.00	25.0			449	56.0	40.0 to 60.0			0.666	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-39H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 16:17  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20100

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	11/3/23 11:25	11/7/23 15:24		1.015	2.14	mg/L	0.030000	0.1015	
* Calcium, Total	11/3/23 11:25	11/7/23 18:16		10.15	134	mg/L	0.70035	4.06	
* Iron, Total	11/3/23 11:25	11/7/23 18:16		10.15	33.8	mg/L	0.08120	0.406	
* Lithium, Total	11/3/23 11:25	11/7/23 15:24		1.015	0.361	mg/L	0.007105	0.01999956	
* Magnesium, Total	11/3/23 11:25	11/7/23 15:24		1.015	24.8	mg/L	0.021315	0.406	
* Molybdenum, Total	11/3/23 11:25	11/7/23 15:24		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	11/3/23 11:25	11/7/23 15:24		1	11.8	mg/L			
* Silicon, Total	11/3/23 11:25	11/7/23 15:24		1.015	5.50	mg/L	0.02030	0.25375	
* Sodium, Total	11/3/23 11:25	11/7/23 15:24		1.015	28.3	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	11/2/23 15:25	11/7/23 14:01		1.015	2.12	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/2/23 15:25	11/7/23 17:16		10.15	114	mg/L	0.70035	4.06	
* Iron, Dissolved	11/2/23 15:25	11/7/23 17:16		10.15	29.3	mg/L	0.08120	0.406	
* Lithium, Dissolved	11/2/23 15:25	11/7/23 14:01		1.015	0.355	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	11/2/23 15:25	11/7/23 14:01		1.015	24.2	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	11/2/23 15:25	11/7/23 14:01		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	11/2/23 15:25	11/7/23 14:01		1	11.6	mg/L			
* Silicon, Dissolved	11/2/23 15:25	11/7/23 14:01		1.015	5.44	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/2/23 15:25	11/7/23 14:01		1.015	27.9	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	11/3/23 11:25	11/3/23 19:47		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	11/3/23 11:25	11/3/23 19:47		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	11/3/23 11:25	11/3/23 19:47		1.015	0.0581	mg/L	0.000112	0.000203	
* Barium, Total	11/3/23 11:25	11/3/23 19:47		1.015	0.260	mg/L	0.000508	0.001015	
* Beryllium, Total	11/3/23 11:25	11/3/23 19:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/3/23 11:25	11/3/23 19:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/3/23 11:25	11/3/23 19:47		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	11/3/23 11:25	11/3/23 19:47		1.015	0.0162	mg/L	0.000068	0.000203	
* Lead, Total	11/3/23 11:25	11/3/23 19:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/3/23 11:25	11/7/23 17:18		5.075	3.76	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-39H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 16:17  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20100

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	11/3/23 11:25	11/3/23 19:47		1.015	12.8	mg/L	0.169505	0.5075	
* Selenium, Total	11/3/23 11:25	11/3/23 19:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/3/23 11:25	11/3/23 19:47		1.015	0.000595	mg/L	0.000068	0.000203	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	11/2/23 15:25	11/3/23 16:24		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	11/2/23 15:25	11/3/23 16:24		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	11/2/23 15:25	11/3/23 16:24		1.015	0.0589	mg/L	0.000112	0.000203	
* Barium, Dissolved	11/2/23 15:25	11/3/23 16:24		1.015	0.257	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/2/23 15:25	11/3/23 16:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/2/23 15:25	11/3/23 16:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/2/23 15:25	11/3/23 16:24		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/2/23 15:25	11/3/23 16:24		1.015	0.0160	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/2/23 15:25	11/3/23 16:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/2/23 15:25	11/7/23 16:21		5.075	3.66	mg/L	0.000761	0.005075	
* Potassium, Dissolved	11/2/23 15:25	11/3/23 16:24		1.015	12.9	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/2/23 15:25	11/3/23 16:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/2/23 15:25	11/3/23 16:24		1.015	0.000645	mg/L	0.000068	0.000203	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/7/23 13:27	11/8/23 16:23		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/16/23 02:58	11/16/23 02:58		1	0.436	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	11/7/23 18:27	11/7/23 18:27		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/14/23 08:30	11/14/23 10:09		1	4.49	SU		2	
* Alkalinity	11/14/23 08:30	11/14/23 10:09		1	425	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	11/2/23 15:00	11/7/23 15:15		1	492	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 10:09		1	425	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 10:09		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-39H

**Location Code:** WMWGREAP  
**Collected:** 10/31/23 16:17  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20100

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	11/7/23 17:40	11/7/23 17:40		1	3.96	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	11/3/23 09:57	11/3/23 09:57		1	4.89	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 10:53	11/7/23 10:53		1	22.0	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/31/23 16:13	10/31/23 16:13			721.04	uS/cm			FA
pH	10/31/23 16:13	10/31/23 16:13			6.56	SU			FA
Temperature	10/31/23 16:13	10/31/23 16:13			19.60	C			FA
Turbidity	10/31/23 16:13	10/31/23 16:13			1.32	NTU			FA
Sulfide	10/31/23 16:13	10/31/23 16:13			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 16:17  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-39H

**Laboratory ID Number:** BD20100

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD20104	Aluminum, Dissolved	mg/L	0.000413	0.0198	0.100	0.103	0.103	0.0995	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD20105	Aluminum, Total	mg/L	0.000983	0.0198	0.100	0.0992	0.101	0.0979	0.0850 to 0.115	99.2	70.0 to 130	1.80	20.0
BD20104	Antimony, Dissolved	mg/L	0.000364	0.00100	0.100	0.103	0.103	0.0947	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD20105	Antimony, Total	mg/L	0.000387	0.00100	0.100	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD20104	Arsenic, Dissolved	mg/L	-0.0000009	0.000200	0.100	0.0958	0.0944	0.0979	0.0850 to 0.115	95.7	70.0 to 130	1.47	20.0
BD20105	Arsenic, Total	mg/L	0.0000176	0.000200	0.100	0.0926	0.0972	0.0971	0.0850 to 0.115	92.6	70.0 to 130	4.85	20.0
BD20104	Barium, Dissolved	mg/L	0.0000108	0.00100	0.100	0.144	0.141	0.0975	0.0850 to 0.115	97.7	70.0 to 130	2.11	20.0
BD20105	Barium, Total	mg/L	-0.0000192	0.00100	0.100	0.101	0.0985	0.0957	0.0850 to 0.115	101	70.0 to 130	2.51	20.0
BD20104	Beryllium, Dissolved	mg/L	0.0000056	0.000880	0.100	0.102	0.0999	0.102	0.0850 to 0.115	102	70.0 to 130	2.08	20.0
BD20105	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0977	0.0983	0.100	0.0850 to 0.115	97.7	70.0 to 130	0.612	20.0
BD20104	Boron, Dissolved	mg/L	-0.000794	0.0650	1.00	1.06	1.21	1.10	0.850 to 1.15	106	70.0 to 130	13.2	20.0
BD20105	Boron, Total	mg/L	0.00016	0.0650	1.00	1.00	1.01	1.01	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD20104	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0999	0.0986	0.105	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BD20105	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0994	0.101	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BD20104	Calcium, Dissolved	mg/L	-0.0586	0.152	5.00	21.9	20.3	4.36	4.25 to 5.75	114	70.0 to 130	7.58	20.0
BD20105	Calcium, Total	mg/L	-0.0336	0.152	5.00	4.90	4.93	4.93	4.25 to 5.75	98.0	70.0 to 130	0.610	20.0
BD20105	Chloride	mg/L	0.0507	1.00	10.0	10.2	10.2	10.2	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BD20104	Chromium, Dissolved	mg/L	-0.0000719	0.000440	0.100	0.101	0.101	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD20105	Chromium, Total	mg/L	-0.0000794	0.000440	0.100	0.101	0.0998	0.101	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD20104	Cobalt, Dissolved	mg/L	0.0000018	0.000147	0.100	0.106	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.948	20.0
BD20105	Cobalt, Total	mg/L	0.0000001	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD20104	Iron, Dissolved	mg/L	-0.000421	0.0176	0.2	0.211	0.194	0.205	0.170 to 0.230	106	70.0 to 130	8.40	20.0
BD20105	Iron, Total	mg/L	-0.000654	0.0176	0.2	0.202	0.203	0.204	0.170 to 0.230	101	70.0 to 130	0.494	20.0
BD20104	Lead, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0993	0.0981	0.101	0.0850 to 0.115	99.3	70.0 to 130	1.22	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 16:17  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-39H

**Laboratory ID Number:** BD20100

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD20105	Lead, Total	mg/L	0.0000036	0.000147	0.100	0.0989	0.0984	0.100	0.0850 to 0.115	98.9	70.0 to 130	0.507	20.0
BD20104	Lithium, Dissolved	mg/L	0.000587	0.0154	0.200	0.207	0.193	0.204	0.170 to 0.230	104	70.0 to 130	7.00	20.0
BD20105	Lithium, Total	mg/L	0.000259	0.0154	0.200	0.202	0.204	0.206	0.170 to 0.230	101	70.0 to 130	0.985	20.0
BD20104	Magnesium, Dissolved	mg/L	-0.00878	0.0462	5.00	7.32	5.24	4.26	4.25 to 5.75	105	70.0 to 130	33.1	20.0
BD20105	Magnesium, Total	mg/L	-0.0126	0.0462	5.00	5.01	5.07	5.10	4.25 to 5.75	100	70.0 to 130	1.19	20.0
BD20104	Manganese, Dissolved	mg/L	0.0000135	0.00033	0.100	0.101	0.101	0.101	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BD20105	Manganese, Total	mg/L	0.0000088	0.00033	0.100	0.0993	0.0990	0.0982	0.0850 to 0.115	99.3	70.0 to 130	0.303	20.0
BD20104	Mercury, Total by CVAA	mg/L	0.000338	0.000500	0.004	0.00353	0.00340	0.00401	0.00340 to 0.00460	88.2	70.0 to 130	3.75	20.0
BD20104	Molybdenum, Dissolved	mg/L	0.00031	0.0100	0.2	0.212	0.195	0.202	0.170 to 0.230	106	70.0 to 130	8.35	20.0
BD20105	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.210	0.210	0.210	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BD20104	Potassium, Dissolved	mg/L	0.00422	0.367	10.0	11.2	11.1	10.6	8.50 to 11.5	103	70.0 to 130	0.897	20.0
BD20105	Potassium, Total	mg/L	-0.0162	0.367	10.0	10.3	10.2	10.1	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BD20104	Selenium, Dissolved	mg/L	0.000215	0.00100	0.100	0.103	0.0994	0.103	0.0850 to 0.115	102	70.0 to 130	3.56	20.0
BD20105	Selenium, Total	mg/L	0.0000222	0.00100	0.100	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD20104	Silicon, Dissolved	mg/L	0.00091	0.0440	1.00	5.92	5.86	1.03	0.850 to 1.15	115	70.0 to 130	1.02	20.0
BD20105	Silicon, Total	mg/L	0.000484	0.0440	1.00	1.04	1.04	1.05	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD20104	Sodium, Dissolved	mg/L	0.00144	0.0880	5.00	25.3	23.9	5.01	4.25 to 5.75	106	70.0 to 130	5.69	20.0
BD20105	Sodium, Total	mg/L	0.00322	0.0880	5.00	5.02	5.07	5.12	4.25 to 5.75	100	70.0 to 130	0.991	20.0
BD20105	Sulfate	mg/L	0.122	2.0	20.0	20.3	20.0	20.4	18.0 to 22.0	102	80.0 to 120	1.49	20.0
BD20104	Thallium, Dissolved	mg/L	0.0000017	0.000147	0.100	0.0993	0.0979	0.101	0.0850 to 0.115	99.3	70.0 to 130	1.42	20.0
BD20105	Thallium, Total	mg/L	0.0000134	0.000147	0.100	0.0991	0.0995	0.0992	0.0850 to 0.115	99.1	70.0 to 130	0.403	20.0
BD20104	Total Organic Carbon	mg/L	0.230	1.00	10.0	12.0	12.1	9.26		94.5	80.0 to 120	0.830	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/31/23 16:17  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-39H

**Laboratory ID Number:** BD20100

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20104	Alkalinity	mg CaCO3/L					54.0	51.6	45.0 to 55.0			0.00	10.0
BD20105	Fluoride	mg/L	0.000000	0.0200	2.00	2.12	0.000000	2.09	1.80 to 2.20	106	80.0 to 120	0.00	20.0
BD20105	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.20	0.025	1.94	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BD20101	Solids, Dissolved	mg/L	2.00	25.0			449	56.0	40.0 to 60.0			0.666	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-10

**Location Code:** WMWGREAP  
**Collected:** 11/1/23 11:10  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20101

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	11/3/23 11:25	11/7/23 15:27		1.015	2.23	mg/L	0.030000	0.1015	
* Calcium, Total	11/3/23 11:25	11/7/23 18:25		10.15	105	mg/L	0.70035	4.06	
* Iron, Total	11/3/23 11:25	11/7/23 18:25		10.15	27.5	mg/L	0.08120	0.406	
* Lithium, Total	11/3/23 11:25	11/7/23 15:27		1.015	0.152	mg/L	0.007105	0.01999956	
* Magnesium, Total	11/3/23 11:25	11/7/23 15:27		1.015	17.8	mg/L	0.021315	0.406	
* Molybdenum, Total	11/3/23 11:25	11/7/23 15:27		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	11/3/23 11:25	11/7/23 15:27		1	12.2	mg/L			
* Silicon, Total	11/3/23 11:25	11/7/23 15:27		1.015	5.70	mg/L	0.02030	0.25375	
* Sodium, Total	11/3/23 11:25	11/7/23 15:27		1.015	28.3	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>							
* Boron, Dissolved	11/2/23 15:25	11/7/23 14:04		1.015	2.22	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/2/23 15:25	11/7/23 17:25		10.15	94.7	mg/L	0.70035	4.06	
* Iron, Dissolved	11/2/23 15:25	11/7/23 17:25		10.15	24.6	mg/L	0.08120	0.406	
* Lithium, Dissolved	11/2/23 15:25	11/7/23 14:04		1.015	0.152	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	11/2/23 15:25	11/7/23 14:04		1.015	17.5	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	11/2/23 15:25	11/7/23 14:04		1.015	0.00519	mg/L	0.005075	0.01015	J
* Silica, Dissolved (calc.)	11/2/23 15:25	11/7/23 14:04		1	12.0	mg/L			
* Silicon, Dissolved	11/2/23 15:25	11/7/23 14:04		1.015	5.63	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/2/23 15:25	11/7/23 14:04		1.015	28.5	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	11/3/23 11:25	11/3/23 19:51		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	11/3/23 11:25	11/3/23 19:51		1.015	0.0330	mg/L	0.009135	0.05075	J
* Arsenic, Total	11/3/23 11:25	11/3/23 19:51		1.015	0.0130	mg/L	0.000112	0.000203	
* Barium, Total	11/3/23 11:25	11/3/23 19:51		1.015	0.259	mg/L	0.000508	0.001015	
* Beryllium, Total	11/3/23 11:25	11/3/23 19:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/3/23 11:25	11/3/23 19:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/3/23 11:25	11/3/23 19:51		1.015	0.000231	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/3/23 11:25	11/3/23 19:51		1.015	0.0177	mg/L	0.000068	0.000203	
* Lead, Total	11/3/23 11:25	11/3/23 19:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/3/23 11:25	11/7/23 17:21		5.075	3.07	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-10

**Location Code:** WMWGREAP  
**Collected:** 11/1/23 11:10  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20101

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	11/3/23 11:25	11/3/23 19:51		1.015	6.50	mg/L	0.169505	0.5075	
* Selenium, Total	11/3/23 11:25	11/3/23 19:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/3/23 11:25	11/3/23 19:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	11/2/23 15:25	11/3/23 16:28		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	11/2/23 15:25	11/3/23 16:28		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	11/2/23 15:25	11/3/23 16:28		1.015	0.0140	mg/L	0.000112	0.000203	
* Barium, Dissolved	11/2/23 15:25	11/3/23 16:28		1.015	0.261	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/2/23 15:25	11/3/23 16:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/2/23 15:25	11/3/23 16:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/2/23 15:25	11/3/23 16:28		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/2/23 15:25	11/3/23 16:28		1.015	0.0174	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/2/23 15:25	11/3/23 16:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/2/23 15:25	11/7/23 16:25		5.075	3.06	mg/L	0.000761	0.005075	
* Potassium, Dissolved	11/2/23 15:25	11/3/23 16:28		1.015	6.58	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/2/23 15:25	11/3/23 16:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/2/23 15:25	11/3/23 16:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/7/23 13:27	11/8/23 16:25		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/16/23 03:22	11/16/23 03:22		1	0.222	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	11/7/23 18:29	11/7/23 18:29		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/14/23 08:30	11/14/23 10:29		1	4.55	SU		2	
* Alkalinity	11/14/23 08:30	11/14/23 10:29		1	216	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	11/2/23 15:00	11/7/23 15:15		1	452	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 10:29		1	216	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 10:29		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-10

**Location Code:** WMWGREAP  
**Collected:** 11/1/23 11:10  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20101

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	11/7/23 17:56	11/7/23 17:56		1	3.74	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	11/3/23 09:58	11/3/23 09:58		1	15.3	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 11:04	11/7/23 11:04		5	124	mg/L	3.0	10	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	11/1/23 11:06	11/1/23 11:06			596.14	uS/cm			FA
pH	11/1/23 11:06	11/1/23 11:06			6.91	SU			FA
Temperature	11/1/23 11:06	11/1/23 11:06			19.83	C			FA
Turbidity	11/1/23 11:06	11/1/23 11:06			4.29	NTU			FA
Sulfide	11/1/23 11:06	11/1/23 11:06			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 11/1/23 11:10

**Customer ID:**

**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-10

**Laboratory ID Number:** BD20101

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD20104	Aluminum, Dissolved	mg/L	0.000413	0.0198	0.100	0.103	0.103	0.0995	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD20105	Aluminum, Total	mg/L	0.000983	0.0198	0.100	0.0992	0.101	0.0979	0.0850 to 0.115	99.2	70.0 to 130	1.80	20.0
BD20104	Antimony, Dissolved	mg/L	0.000364	0.00100	0.100	0.103	0.103	0.0947	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD20105	Antimony, Total	mg/L	0.000387	0.00100	0.100	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD20104	Arsenic, Dissolved	mg/L	-0.0000009	0.000200	0.100	0.0958	0.0944	0.0979	0.0850 to 0.115	95.7	70.0 to 130	1.47	20.0
BD20105	Arsenic, Total	mg/L	0.0000176	0.000200	0.100	0.0926	0.0972	0.0971	0.0850 to 0.115	92.6	70.0 to 130	4.85	20.0
BD20104	Barium, Dissolved	mg/L	0.0000108	0.00100	0.100	0.144	0.141	0.0975	0.0850 to 0.115	97.7	70.0 to 130	2.11	20.0
BD20105	Barium, Total	mg/L	-0.0000192	0.00100	0.100	0.101	0.0985	0.0957	0.0850 to 0.115	101	70.0 to 130	2.51	20.0
BD20104	Beryllium, Dissolved	mg/L	0.0000056	0.000880	0.100	0.102	0.0999	0.102	0.0850 to 0.115	102	70.0 to 130	2.08	20.0
BD20105	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0977	0.0983	0.100	0.0850 to 0.115	97.7	70.0 to 130	0.612	20.0
BD20104	Boron, Dissolved	mg/L	-0.000794	0.0650	1.00	1.06	1.21	1.10	0.850 to 1.15	106	70.0 to 130	13.2	20.0
BD20105	Boron, Total	mg/L	0.00016	0.0650	1.00	1.00	1.01	1.01	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD20104	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0999	0.0986	0.105	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BD20105	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0994	0.101	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BD20104	Calcium, Dissolved	mg/L	-0.0586	0.152	5.00	21.9	20.3	4.36	4.25 to 5.75	114	70.0 to 130	7.58	20.0
BD20105	Calcium, Total	mg/L	-0.0336	0.152	5.00	4.90	4.93	4.93	4.25 to 5.75	98.0	70.0 to 130	0.610	20.0
BD20105	Chloride	mg/L	0.0507	1.00	10.0	10.2	10.2	10.2	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BD20104	Chromium, Dissolved	mg/L	-0.0000719	0.000440	0.100	0.101	0.101	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD20105	Chromium, Total	mg/L	-0.0000794	0.000440	0.100	0.101	0.0998	0.101	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD20104	Cobalt, Dissolved	mg/L	0.0000018	0.000147	0.100	0.106	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.948	20.0
BD20105	Cobalt, Total	mg/L	0.0000001	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD20104	Iron, Dissolved	mg/L	-0.000421	0.0176	0.2	0.211	0.194	0.205	0.170 to 0.230	106	70.0 to 130	8.40	20.0
BD20105	Iron, Total	mg/L	-0.000654	0.0176	0.2	0.202	0.203	0.204	0.170 to 0.230	101	70.0 to 130	0.494	20.0
BD20104	Lead, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0993	0.0981	0.101	0.0850 to 0.115	99.3	70.0 to 130	1.22	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 11/1/23 11:10

**Customer ID:**

**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-10

**Laboratory ID Number:** BD20101

Sample	Analysis	Units	MB				Standard		Rec			Prec Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		Prec
BD20105	Lead, Total	mg/L	0.0000036	0.000147	0.100	0.0989	0.0984	0.100	0.0850 to 0.115	98.9	70.0 to 130	0.507	20.0
BD20104	Lithium, Dissolved	mg/L	0.000587	0.0154	0.200	0.207	0.193	0.204	0.170 to 0.230	104	70.0 to 130	7.00	20.0
BD20105	Lithium, Total	mg/L	0.000259	0.0154	0.200	0.202	0.204	0.206	0.170 to 0.230	101	70.0 to 130	0.985	20.0
BD20104	Magnesium, Dissolved	mg/L	-0.00878	0.0462	5.00	7.32	5.24	4.26	4.25 to 5.75	105	70.0 to 130	33.1	20.0
BD20105	Magnesium, Total	mg/L	-0.0126	0.0462	5.00	5.01	5.07	5.10	4.25 to 5.75	100	70.0 to 130	1.19	20.0
BD20104	Manganese, Dissolved	mg/L	0.0000135	0.00033	0.100	0.101	0.101	0.101	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BD20105	Manganese, Total	mg/L	0.0000088	0.00033	0.100	0.0993	0.0990	0.0982	0.0850 to 0.115	99.3	70.0 to 130	0.303	20.0
BD20104	Mercury, Total by CVAA	mg/L	0.000338	0.000500	0.004	0.00353	0.00340	0.00401	0.00340 to 0.00460	88.2	70.0 to 130	3.75	20.0
BD20104	Molybdenum, Dissolved	mg/L	0.00031	0.0100	0.2	0.212	0.195	0.202	0.170 to 0.230	106	70.0 to 130	8.35	20.0
BD20105	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.210	0.210	0.210	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BD20104	Potassium, Dissolved	mg/L	0.00422	0.367	10.0	11.2	11.1	10.6	8.50 to 11.5	103	70.0 to 130	0.897	20.0
BD20105	Potassium, Total	mg/L	-0.0162	0.367	10.0	10.3	10.2	10.1	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BD20104	Selenium, Dissolved	mg/L	0.000215	0.00100	0.100	0.103	0.0994	0.103	0.0850 to 0.115	102	70.0 to 130	3.56	20.0
BD20105	Selenium, Total	mg/L	0.0000222	0.00100	0.100	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD20104	Silicon, Dissolved	mg/L	0.00091	0.0440	1.00	5.92	5.86	1.03	0.850 to 1.15	115	70.0 to 130	1.02	20.0
BD20105	Silicon, Total	mg/L	0.000484	0.0440	1.00	1.04	1.04	1.05	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD20104	Sodium, Dissolved	mg/L	0.00144	0.0880	5.00	25.3	23.9	5.01	4.25 to 5.75	106	70.0 to 130	5.69	20.0
BD20105	Sodium, Total	mg/L	0.00322	0.0880	5.00	5.02	5.07	5.12	4.25 to 5.75	100	70.0 to 130	0.991	20.0
BD20105	Sulfate	mg/L	0.122	2.0	20.0	20.3	20.0	20.4	18.0 to 22.0	102	80.0 to 120	1.49	20.0
BD20104	Thallium, Dissolved	mg/L	0.0000017	0.000147	0.100	0.0993	0.0979	0.101	0.0850 to 0.115	99.3	70.0 to 130	1.42	20.0
BD20105	Thallium, Total	mg/L	0.0000134	0.000147	0.100	0.0991	0.0995	0.0992	0.0850 to 0.115	99.1	70.0 to 130	0.403	20.0
BD20104	Total Organic Carbon	mg/L	0.230	1.00	10.0	12.0	12.1	9.26		94.5	80.0 to 120	0.830	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 11/1/23 11:10

**Customer ID:**

**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-10

**Laboratory ID Number:** BD20101

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20104	Alkalinity	mg CaCO3/L					54.0	51.6	45.0 to 55.0			0.00	10.0
BD20105	Fluoride	mg/L	0.000000	0.0200	2.00	2.12	0.000000	2.09	1.80 to 2.20	106	80.0 to 120	0.00	20.0
BD20105	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.20	0.025	1.94	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BD20101	Solids, Dissolved	mg/L	2.00	25.0			449	56.0	40.0 to 60.0			0.666	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-14

**Location Code:** WMWGREAP  
**Collected:** 11/1/23 11:57  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20102

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	11/3/23 11:25	11/7/23 15:30		1.015	2.17	mg/L	0.030000	0.1015	
* Calcium, Total	11/3/23 11:25	11/7/23 18:28		10.15	152	mg/L	0.70035	4.06	
* Iron, Total	11/3/23 11:25	11/7/23 18:32		101.5	60.2	mg/L	0.8120	4.06	
* Lithium, Total	11/3/23 11:25	11/7/23 15:30		1.015	0.542	mg/L	0.007105	0.01999956	
* Magnesium, Total	11/3/23 11:25	11/7/23 15:30		1.015	28.5	mg/L	0.021315	0.406	
* Molybdenum, Total	11/3/23 11:25	11/7/23 15:30		1.015	0.0277	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	11/3/23 11:25	11/7/23 15:30		1	14.1	mg/L			
* Silicon, Total	11/3/23 11:25	11/7/23 15:30		1.015	6.60	mg/L	0.02030	0.25375	
* Sodium, Total	11/3/23 11:25	11/7/23 15:30		1.015	33.6	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ELH</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	11/2/23 15:25	11/7/23 14:07		1.015	2.13	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/2/23 15:25	11/7/23 17:28		10.15	122	mg/L	0.70035	4.06	
* Iron, Dissolved	11/2/23 15:25	11/7/23 17:32		101.5	59.2	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/2/23 15:25	11/7/23 14:07		1.015	0.560	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	11/2/23 15:25	11/7/23 14:07		1.015	28.6	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	11/2/23 15:25	11/7/23 14:07		1.015	0.0284	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	11/2/23 15:25	11/7/23 14:07		1	13.8	mg/L			
* Silicon, Dissolved	11/2/23 15:25	11/7/23 14:07		1.015	6.47	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/2/23 15:25	11/7/23 14:07		1.015	33.9	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	11/3/23 11:25	11/3/23 19:55		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	11/3/23 11:25	11/3/23 19:55		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	11/3/23 11:25	11/3/23 19:55		1.015	0.0298	mg/L	0.000112	0.000203	
* Barium, Total	11/3/23 11:25	11/3/23 19:55		1.015	0.117	mg/L	0.000508	0.001015	
* Beryllium, Total	11/3/23 11:25	11/3/23 19:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/3/23 11:25	11/3/23 19:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/3/23 11:25	11/3/23 19:55		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	11/3/23 11:25	11/3/23 19:55		1.015	0.0308	mg/L	0.000068	0.000203	
* Lead, Total	11/3/23 11:25	11/3/23 19:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/3/23 11:25	11/7/23 17:25		5.075	5.05	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-14

**Location Code:** WMWGREAP  
**Collected:** 11/1/23 11:57  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20102

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	11/3/23 11:25	11/3/23 19:55		1.015	11.3	mg/L	0.169505	0.5075	
* Selenium, Total	11/3/23 11:25	11/3/23 19:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/3/23 11:25	11/3/23 19:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	11/2/23 15:25	11/3/23 16:32		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	11/2/23 15:25	11/3/23 16:32		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	11/2/23 15:25	11/3/23 16:32		1.015	0.0304	mg/L	0.000112	0.000203	
* Barium, Dissolved	11/2/23 15:25	11/3/23 16:32		1.015	0.110	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/2/23 15:25	11/3/23 16:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/2/23 15:25	11/3/23 16:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/2/23 15:25	11/3/23 16:32		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/2/23 15:25	11/3/23 16:32		1.015	0.0306	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/2/23 15:25	11/3/23 16:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/2/23 15:25	11/7/23 16:28		5.075	5.03	mg/L	0.000761	0.005075	
* Potassium, Dissolved	11/2/23 15:25	11/3/23 16:32		1.015	11.4	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/2/23 15:25	11/3/23 16:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/2/23 15:25	11/3/23 16:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/7/23 13:27	11/8/23 16:27		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/16/23 03:45	11/16/23 03:45		1	0.256	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	11/7/23 18:30	11/7/23 18:30		1	0.295	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/14/23 08:30	11/14/23 10:44		1	4.52	SU		2	
* Alkalinity	11/14/23 08:30	11/14/23 10:44		1	370	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	11/2/23 15:00	11/7/23 15:15		1	653	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 10:44		1	370	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 10:44		1	Not Detected	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-14

**Location Code:** WMWGREAP  
**Collected:** 11/1/23 11:57  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20102

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	11/7/23 18:12	11/7/23 18:12		1	4.30	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	11/3/23 09:59	11/3/23 09:59		1	10.1	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 11:05	11/7/23 11:05		6	135	mg/L	3.6	12	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	11/1/23 11:53	11/1/23 11:53			795.40	uS/cm			FA
pH	11/1/23 11:53	11/1/23 11:53			6.80	SU			FA
Temperature	11/1/23 11:53	11/1/23 11:53			20.28	C			FA
Turbidity	11/1/23 11:53	11/1/23 11:53			2.72	NTU			FA
Sulfide	11/1/23 11:53	11/1/23 11:53			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 11/1/23 11:57  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-14

**Laboratory ID Number:** BD20102

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD20104	Aluminum, Dissolved	mg/L	0.000413	0.0198	0.100	0.103	0.103	0.0995	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD20105	Aluminum, Total	mg/L	0.000983	0.0198	0.100	0.0992	0.101	0.0979	0.0850 to 0.115	99.2	70.0 to 130	1.80	20.0
BD20104	Antimony, Dissolved	mg/L	0.000364	0.00100	0.100	0.103	0.103	0.0947	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD20105	Antimony, Total	mg/L	0.000387	0.00100	0.100	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD20104	Arsenic, Dissolved	mg/L	-0.0000009	0.000200	0.100	0.0958	0.0944	0.0979	0.0850 to 0.115	95.7	70.0 to 130	1.47	20.0
BD20105	Arsenic, Total	mg/L	0.0000176	0.000200	0.100	0.0926	0.0972	0.0971	0.0850 to 0.115	92.6	70.0 to 130	4.85	20.0
BD20104	Barium, Dissolved	mg/L	0.0000108	0.00100	0.100	0.144	0.141	0.0975	0.0850 to 0.115	97.7	70.0 to 130	2.11	20.0
BD20105	Barium, Total	mg/L	-0.0000192	0.00100	0.100	0.101	0.0985	0.0957	0.0850 to 0.115	101	70.0 to 130	2.51	20.0
BD20104	Beryllium, Dissolved	mg/L	0.0000056	0.000880	0.100	0.102	0.0999	0.102	0.0850 to 0.115	102	70.0 to 130	2.08	20.0
BD20105	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0977	0.0983	0.100	0.0850 to 0.115	97.7	70.0 to 130	0.612	20.0
BD20104	Boron, Dissolved	mg/L	-0.000794	0.0650	1.00	1.06	1.21	1.10	0.850 to 1.15	106	70.0 to 130	13.2	20.0
BD20105	Boron, Total	mg/L	0.00016	0.0650	1.00	1.00	1.01	1.01	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD20104	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0999	0.0986	0.105	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BD20105	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0994	0.101	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BD20104	Calcium, Dissolved	mg/L	-0.0586	0.152	5.00	21.9	20.3	4.36	4.25 to 5.75	114	70.0 to 130	7.58	20.0
BD20105	Calcium, Total	mg/L	-0.0336	0.152	5.00	4.90	4.93	4.93	4.25 to 5.75	98.0	70.0 to 130	0.610	20.0
BD20105	Chloride	mg/L	0.0507	1.00	10.0	10.2	10.2	10.2	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BD20104	Chromium, Dissolved	mg/L	-0.0000719	0.000440	0.100	0.101	0.101	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD20105	Chromium, Total	mg/L	-0.0000794	0.000440	0.100	0.101	0.0998	0.101	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD20104	Cobalt, Dissolved	mg/L	0.0000018	0.000147	0.100	0.106	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.948	20.0
BD20105	Cobalt, Total	mg/L	0.0000001	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD20104	Iron, Dissolved	mg/L	-0.000421	0.0176	0.2	0.211	0.194	0.205	0.170 to 0.230	106	70.0 to 130	8.40	20.0
BD20105	Iron, Total	mg/L	-0.000654	0.0176	0.2	0.202	0.203	0.204	0.170 to 0.230	101	70.0 to 130	0.494	20.0
BD20104	Lead, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0993	0.0981	0.101	0.0850 to 0.115	99.3	70.0 to 130	1.22	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 11/1/23 11:57  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-14

**Laboratory ID Number:** BD20102

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD20105	Lead, Total	mg/L	0.0000036	0.000147	0.100	0.0989	0.0984	0.100	0.0850 to 0.115	98.9	70.0 to 130	0.507	20.0
BD20104	Lithium, Dissolved	mg/L	0.000587	0.0154	0.200	0.207	0.193	0.204	0.170 to 0.230	104	70.0 to 130	7.00	20.0
BD20105	Lithium, Total	mg/L	0.000259	0.0154	0.200	0.202	0.204	0.206	0.170 to 0.230	101	70.0 to 130	0.985	20.0
BD20104	Magnesium, Dissolved	mg/L	-0.00878	0.0462	5.00	7.32	5.24	4.26	4.25 to 5.75	105	70.0 to 130	33.1	20.0
BD20105	Magnesium, Total	mg/L	-0.0126	0.0462	5.00	5.01	5.07	5.10	4.25 to 5.75	100	70.0 to 130	1.19	20.0
BD20104	Manganese, Dissolved	mg/L	0.0000135	0.00033	0.100	0.101	0.101	0.101	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BD20105	Manganese, Total	mg/L	0.0000088	0.00033	0.100	0.0993	0.0990	0.0982	0.0850 to 0.115	99.3	70.0 to 130	0.303	20.0
BD20104	Mercury, Total by CVAA	mg/L	0.000338	0.000500	0.004	0.00353	0.00340	0.00401	0.00340 to 0.00460	88.2	70.0 to 130	3.75	20.0
BD20104	Molybdenum, Dissolved	mg/L	0.00031	0.0100	0.2	0.212	0.195	0.202	0.170 to 0.230	106	70.0 to 130	8.35	20.0
BD20105	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.210	0.210	0.210	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BD20104	Potassium, Dissolved	mg/L	0.00422	0.367	10.0	11.2	11.1	10.6	8.50 to 11.5	103	70.0 to 130	0.897	20.0
BD20105	Potassium, Total	mg/L	-0.0162	0.367	10.0	10.3	10.2	10.1	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BD20104	Selenium, Dissolved	mg/L	0.000215	0.00100	0.100	0.103	0.0994	0.103	0.0850 to 0.115	102	70.0 to 130	3.56	20.0
BD20105	Selenium, Total	mg/L	0.0000222	0.00100	0.100	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD20104	Silicon, Dissolved	mg/L	0.00091	0.0440	1.00	5.92	5.86	1.03	0.850 to 1.15	115	70.0 to 130	1.02	20.0
BD20105	Silicon, Total	mg/L	0.000484	0.0440	1.00	1.04	1.04	1.05	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD20104	Sodium, Dissolved	mg/L	0.00144	0.0880	5.00	25.3	23.9	5.01	4.25 to 5.75	106	70.0 to 130	5.69	20.0
BD20105	Sodium, Total	mg/L	0.00322	0.0880	5.00	5.02	5.07	5.12	4.25 to 5.75	100	70.0 to 130	0.991	20.0
BD20105	Sulfate	mg/L	0.122	2.0	20.0	20.3	20.0	20.4	18.0 to 22.0	102	80.0 to 120	1.49	20.0
BD20104	Thallium, Dissolved	mg/L	0.0000017	0.000147	0.100	0.0993	0.0979	0.101	0.0850 to 0.115	99.3	70.0 to 130	1.42	20.0
BD20105	Thallium, Total	mg/L	0.0000134	0.000147	0.100	0.0991	0.0995	0.0992	0.0850 to 0.115	99.1	70.0 to 130	0.403	20.0
BD20104	Total Organic Carbon	mg/L	0.230	1.00	10.0	12.0	12.1	9.26		94.5	80.0 to 120	0.830	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 11/1/23 11:57

**Customer ID:**

**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-14

**Laboratory ID Number:** BD20102

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BD20104	Alkalinity	mg CaCO3/L					54.0	51.6	45.0 to 55.0			0.00	10.0
BD20105	Fluoride	mg/L	0.000000	0.0200	2.00	2.12	0.000000	2.09	1.80 to 2.20	106	80.0 to 120	0.00	20.0
BD20105	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.20	0.025	1.94	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BD20103	Solids, Dissolved	mg/L	2.00	25.0			251	56.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-25

**Location Code:** WMWGREAP  
**Collected:** 11/1/23 13:05  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20103

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ELH</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	11/3/23 11:25	11/7/23 15:33		1.015	0.115	mg/L	0.030000	0.1015	
* Calcium, Total	11/3/23 11:25	11/7/23 15:33		1.015	31.1	mg/L	0.070035	0.406	
* Iron, Total	11/3/23 11:25	11/7/23 15:33		1.015	1.15	mg/L	0.008120	0.0406	
* Lithium, Total	11/3/23 11:25	11/7/23 15:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/3/23 11:25	11/7/23 15:33		1.015	8.37	mg/L	0.021315	0.406	
* Molybdenum, Total	11/3/23 11:25	11/7/23 15:33		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	11/3/23 11:25	11/7/23 15:33		1	22.9	mg/L			
* Silicon, Total	11/3/23 11:25	11/7/23 15:33		1.015	10.7	mg/L	0.02030	0.25375	
* Sodium, Total	11/3/23 11:25	11/7/23 15:33		1.015	34.0	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ELH</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	11/2/23 15:25	11/7/23 14:10		1.015	0.113	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/2/23 15:25	11/7/23 14:10		1.015	29.1	mg/L	0.070035	0.406	
* Iron, Dissolved	11/2/23 15:25	11/7/23 14:10		1.015	1.08	mg/L	0.008120	0.0406	
* Lithium, Dissolved	11/2/23 15:25	11/7/23 14:10		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/2/23 15:25	11/7/23 14:10		1.015	8.13	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	11/2/23 15:25	11/7/23 14:10		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	11/2/23 15:25	11/7/23 14:10		1	22.5	mg/L			
* Silicon, Dissolved	11/2/23 15:25	11/7/23 14:10		1.015	10.5	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/2/23 15:25	11/7/23 14:10		1.015	33.9	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	11/3/23 11:25	11/3/23 19:59		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	11/3/23 11:25	11/3/23 19:59		1.015	0.0205	mg/L	0.009135	0.05075	J
* Arsenic, Total	11/3/23 11:25	11/3/23 19:59		1.015	0.000183	mg/L	0.000112	0.000203	J
* Barium, Total	11/3/23 11:25	11/3/23 19:59		1.015	0.0806	mg/L	0.000508	0.001015	
* Beryllium, Total	11/3/23 11:25	11/3/23 19:59		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/3/23 11:25	11/3/23 19:59		1.015	0.0000887	mg/L	0.000068	0.000203	J
* Chromium, Total	11/3/23 11:25	11/3/23 19:59		1.015	0.000214	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/3/23 11:25	11/3/23 19:59		1.015	0.0116	mg/L	0.000068	0.000203	
* Lead, Total	11/3/23 11:25	11/3/23 19:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/3/23 11:25	11/3/23 19:59		1.015	0.313	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-25

**Location Code:** WMWGREAP  
**Collected:** 11/1/23 13:05  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20103

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	11/3/23 11:25	11/3/23 19:59		1.015	0.973	mg/L	0.169505	0.5075	
* Selenium, Total	11/3/23 11:25	11/3/23 19:59		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/3/23 11:25	11/3/23 19:59		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	11/2/23 15:25	11/3/23 16:35		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	11/2/23 15:25	11/3/23 16:35		1.015	0.00930	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	11/2/23 15:25	11/3/23 16:35		1.015	0.000234	mg/L	0.000112	0.000203	
* Barium, Dissolved	11/2/23 15:25	11/3/23 16:35		1.015	0.0813	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/2/23 15:25	11/3/23 16:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/2/23 15:25	11/3/23 16:35		1.015	0.0000872	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	11/2/23 15:25	11/3/23 16:35		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/2/23 15:25	11/3/23 16:35		1.015	0.0114	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/2/23 15:25	11/3/23 16:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/2/23 15:25	11/3/23 16:35		1.015	0.300	mg/L	0.000152	0.001015	
* Potassium, Dissolved	11/2/23 15:25	11/3/23 16:35		1.015	0.905	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/2/23 15:25	11/3/23 16:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/2/23 15:25	11/3/23 16:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/7/23 13:27	11/8/23 16:30		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/16/23 04:12	11/16/23 04:12		1	0.0861	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	11/7/23 18:31	11/7/23 18:31		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/14/23 08:30	11/14/23 10:50		1	4.47	SU		2	
* Alkalinity	11/14/23 08:30	11/14/23 10:50		1	69.6	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	11/2/23 15:00	11/7/23 15:15		1	251	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 10:50		1	69.6	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 10:50		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-25

**Location Code:** WMWGREAP

**Collected:** 11/1/23 13:05

**Customer ID:**

**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20103

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	11/7/23 18:29	11/7/23 18:29		1	1.61	mg/L	1.00	2	J
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	11/3/23 10:06	11/3/23 10:06		2	26.9	mg/L	1.00	2	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 11:06	11/7/23 11:06		3	72.6	mg/L	1.8	6	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	11/1/23 13:02	11/1/23 13:02			346.57	uS/cm			FA
pH	11/1/23 13:02	11/1/23 13:02			6.01	SU			FA
Temperature	11/1/23 13:02	11/1/23 13:02			20.36	C			FA
Turbidity	11/1/23 13:02	11/1/23 13:02			1.89	NTU			FA
Sulfide	11/1/23 13:02	11/1/23 13:02			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 11/1/23 13:05  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-25

**Laboratory ID Number:** BD20103

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD20104	Aluminum, Dissolved	mg/L	0.000413	0.0198	0.100	0.103	0.103	0.0995	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD20105	Aluminum, Total	mg/L	0.000983	0.0198	0.100	0.0992	0.101	0.0979	0.0850 to 0.115	99.2	70.0 to 130	1.80	20.0
BD20104	Antimony, Dissolved	mg/L	0.000364	0.00100	0.100	0.103	0.103	0.0947	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD20105	Antimony, Total	mg/L	0.000387	0.00100	0.100	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD20104	Arsenic, Dissolved	mg/L	-0.0000009	0.000200	0.100	0.0958	0.0944	0.0979	0.0850 to 0.115	95.7	70.0 to 130	1.47	20.0
BD20105	Arsenic, Total	mg/L	0.0000176	0.000200	0.100	0.0926	0.0972	0.0971	0.0850 to 0.115	92.6	70.0 to 130	4.85	20.0
BD20104	Barium, Dissolved	mg/L	0.0000108	0.00100	0.100	0.144	0.141	0.0975	0.0850 to 0.115	97.7	70.0 to 130	2.11	20.0
BD20105	Barium, Total	mg/L	-0.0000192	0.00100	0.100	0.101	0.0985	0.0957	0.0850 to 0.115	101	70.0 to 130	2.51	20.0
BD20104	Beryllium, Dissolved	mg/L	0.0000056	0.000880	0.100	0.102	0.0999	0.102	0.0850 to 0.115	102	70.0 to 130	2.08	20.0
BD20105	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0977	0.0983	0.100	0.0850 to 0.115	97.7	70.0 to 130	0.612	20.0
BD20104	Boron, Dissolved	mg/L	-0.000794	0.0650	1.00	1.06	1.21	1.10	0.850 to 1.15	106	70.0 to 130	13.2	20.0
BD20105	Boron, Total	mg/L	0.00016	0.0650	1.00	1.00	1.01	1.01	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD20104	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0999	0.0986	0.105	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BD20105	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0994	0.101	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BD20104	Calcium, Dissolved	mg/L	-0.0586	0.152	5.00	21.9	20.3	4.36	4.25 to 5.75	114	70.0 to 130	7.58	20.0
BD20105	Calcium, Total	mg/L	-0.0336	0.152	5.00	4.90	4.93	4.93	4.25 to 5.75	98.0	70.0 to 130	0.610	20.0
BD20105	Chloride	mg/L	0.0507	1.00	10.0	10.2	10.2	10.2	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BD20104	Chromium, Dissolved	mg/L	-0.0000719	0.000440	0.100	0.101	0.101	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD20105	Chromium, Total	mg/L	-0.0000794	0.000440	0.100	0.101	0.0998	0.101	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD20104	Cobalt, Dissolved	mg/L	0.0000018	0.000147	0.100	0.106	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.948	20.0
BD20105	Cobalt, Total	mg/L	0.0000001	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD20104	Iron, Dissolved	mg/L	-0.000421	0.0176	0.2	0.211	0.194	0.205	0.170 to 0.230	106	70.0 to 130	8.40	20.0
BD20105	Iron, Total	mg/L	-0.000654	0.0176	0.2	0.202	0.203	0.204	0.170 to 0.230	101	70.0 to 130	0.494	20.0
BD20104	Lead, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0993	0.0981	0.101	0.0850 to 0.115	99.3	70.0 to 130	1.22	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 11/1/23 13:05  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-25

**Laboratory ID Number:** BD20103

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD20105	Lead, Total	mg/L	0.0000036	0.000147	0.100	0.0989	0.0984	0.100	0.0850 to 0.115	98.9	70.0 to 130	0.507	20.0
BD20104	Lithium, Dissolved	mg/L	0.000587	0.0154	0.200	0.207	0.193	0.204	0.170 to 0.230	104	70.0 to 130	7.00	20.0
BD20105	Lithium, Total	mg/L	0.000259	0.0154	0.200	0.202	0.204	0.206	0.170 to 0.230	101	70.0 to 130	0.985	20.0
BD20104	Magnesium, Dissolved	mg/L	-0.00878	0.0462	5.00	7.32	5.24	4.26	4.25 to 5.75	105	70.0 to 130	33.1	20.0
BD20105	Magnesium, Total	mg/L	-0.0126	0.0462	5.00	5.01	5.07	5.10	4.25 to 5.75	100	70.0 to 130	1.19	20.0
BD20104	Manganese, Dissolved	mg/L	0.0000135	0.00033	0.100	0.101	0.101	0.101	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BD20105	Manganese, Total	mg/L	0.0000088	0.00033	0.100	0.0993	0.0990	0.0982	0.0850 to 0.115	99.3	70.0 to 130	0.303	20.0
BD20104	Mercury, Total by CVAA	mg/L	0.000338	0.000500	0.004	0.00353	0.00340	0.00401	0.00340 to 0.00460	88.2	70.0 to 130	3.75	20.0
BD20104	Molybdenum, Dissolved	mg/L	0.00031	0.0100	0.2	0.212	0.195	0.202	0.170 to 0.230	106	70.0 to 130	8.35	20.0
BD20105	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.210	0.210	0.210	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BD20104	Potassium, Dissolved	mg/L	0.00422	0.367	10.0	11.2	11.1	10.6	8.50 to 11.5	103	70.0 to 130	0.897	20.0
BD20105	Potassium, Total	mg/L	-0.0162	0.367	10.0	10.3	10.2	10.1	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BD20104	Selenium, Dissolved	mg/L	0.000215	0.00100	0.100	0.103	0.0994	0.103	0.0850 to 0.115	102	70.0 to 130	3.56	20.0
BD20105	Selenium, Total	mg/L	0.0000222	0.00100	0.100	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD20104	Silicon, Dissolved	mg/L	0.00091	0.0440	1.00	5.92	5.86	1.03	0.850 to 1.15	115	70.0 to 130	1.02	20.0
BD20105	Silicon, Total	mg/L	0.000484	0.0440	1.00	1.04	1.04	1.05	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD20104	Sodium, Dissolved	mg/L	0.00144	0.0880	5.00	25.3	23.9	5.01	4.25 to 5.75	106	70.0 to 130	5.69	20.0
BD20105	Sodium, Total	mg/L	0.00322	0.0880	5.00	5.02	5.07	5.12	4.25 to 5.75	100	70.0 to 130	0.991	20.0
BD20105	Sulfate	mg/L	0.122	2.0	20.0	20.3	20.0	20.4	18.0 to 22.0	102	80.0 to 120	1.49	20.0
BD20104	Thallium, Dissolved	mg/L	0.0000017	0.000147	0.100	0.0993	0.0979	0.101	0.0850 to 0.115	99.3	70.0 to 130	1.42	20.0
BD20105	Thallium, Total	mg/L	0.0000134	0.000147	0.100	0.0991	0.0995	0.0992	0.0850 to 0.115	99.1	70.0 to 130	0.403	20.0
BD20104	Total Organic Carbon	mg/L	0.230	1.00	10.0	12.0	12.1	9.26		94.5	80.0 to 120	0.830	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 11/1/23 13:05

**Customer ID:**

**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-25

**Laboratory ID Number:** BD20103

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20104	Alkalinity	mg CaCO3/L					54.0	51.6	45.0 to 55.0			0.00	10.0
BD20105	Fluoride	mg/L	0.000000	0.0200	2.00	2.12	0.000000	2.09	1.80 to 2.20	106	80.0 to 120	0.00	20.0
BD20105	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.20	0.025	1.94	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BD20103	Solids, Dissolved	mg/L	2.00	25.0			251	56.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-34HA

**Location Code:** WMWGREAP  
**Collected:** 11/1/23 14:15  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20104

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ELH</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	11/3/23 11:25	11/7/23 15:36		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/3/23 11:25	11/7/23 15:36		1.015	16.8	mg/L	0.070035	0.406	
* Iron, Total	11/3/23 11:25	11/7/23 15:36		1.015	0.0406	mg/L	0.008120	0.0406	
* Lithium, Total	11/3/23 11:25	11/7/23 15:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/3/23 11:25	11/7/23 15:36		1.015	2.12	mg/L	0.021315	0.406	
* Molybdenum, Total	11/3/23 11:25	11/7/23 15:36		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	11/3/23 11:25	11/7/23 15:36		1	10.3	mg/L			
* Silicon, Total	11/3/23 11:25	11/7/23 15:36		1.015	4.80	mg/L	0.02030	0.25375	
* Sodium, Total	11/3/23 11:25	11/7/23 15:36		1.015	19.9	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ELH</b>						
* Boron, Dissolved	11/2/23 15:25	11/7/23 14:13		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	11/2/23 15:25	11/7/23 14:13		1.015	16.2	mg/L	0.070035	0.406	
* Iron, Dissolved	11/2/23 15:25	11/7/23 14:13		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	11/2/23 15:25	11/7/23 14:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/2/23 15:25	11/7/23 14:13		1.015	2.09	mg/L	0.021315	0.406	R
* Molybdenum, Dissolved	11/2/23 15:25	11/7/23 14:13		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	11/2/23 15:25	11/7/23 14:13		1	10.2	mg/L			
* Silicon, Dissolved	11/2/23 15:25	11/7/23 14:13		1.015	4.77	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/2/23 15:25	11/7/23 14:13		1.015	20.0	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	11/3/23 11:25	11/3/23 20:02		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	11/3/23 11:25	11/3/23 20:02		1.015	0.0125	mg/L	0.009135	0.05075	J
* Arsenic, Total	11/3/23 11:25	11/3/23 20:02		1.015	0.000128	mg/L	0.000112	0.000203	J
* Barium, Total	11/3/23 11:25	11/3/23 20:02		1.015	0.0460	mg/L	0.000508	0.001015	
* Beryllium, Total	11/3/23 11:25	11/3/23 20:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/3/23 11:25	11/3/23 20:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/3/23 11:25	11/3/23 20:02		1.015	0.000258	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/3/23 11:25	11/3/23 20:02		1.015	0.00155	mg/L	0.000068	0.000203	
* Lead, Total	11/3/23 11:25	11/3/23 20:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/3/23 11:25	11/3/23 20:02		1.015	0.00149	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Dissolved Magnesium precision is out of specification limit.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-34HA

**Location Code:** WMWGREAP

**Collected:** 11/1/23 14:15

**Customer ID:**

**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20104

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	11/3/23 11:25	11/3/23 20:02		1.015	0.840	mg/L	0.169505	0.5075	
* Selenium, Total	11/3/23 11:25	11/3/23 20:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/3/23 11:25	11/3/23 20:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	11/2/23 15:25	11/3/23 16:39		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	11/2/23 15:25	11/3/23 16:39		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	11/2/23 15:25	11/3/23 16:39		1.015	0.000132	mg/L	0.000112	0.000203	J
* Barium, Dissolved	11/2/23 15:25	11/3/23 16:39		1.015	0.0463	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/2/23 15:25	11/3/23 16:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/2/23 15:25	11/3/23 16:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/2/23 15:25	11/3/23 16:39		1.015	0.000291	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/2/23 15:25	11/3/23 16:39		1.015	0.00152	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/2/23 15:25	11/3/23 16:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/2/23 15:25	11/3/23 16:39		1.015	0.00149	mg/L	0.000152	0.001015	
* Potassium, Dissolved	11/2/23 15:25	11/3/23 16:39		1.015	0.859	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/2/23 15:25	11/3/23 16:39		1.015	0.000654	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	11/2/23 15:25	11/3/23 16:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	11/15/23 12:26	11/16/23 09:47		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/16/23 04:39	11/16/23 04:39		1	0.0600	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	11/7/23 18:31	11/7/23 18:31		1	0.908	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/14/23 08:30	11/14/23 14:04		1	4.52	SU		2	
* Alkalinity	11/14/23 08:30	11/14/23 14:04		1	54.0	mg CaCO3/L		0.10	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	11/2/23 15:00	11/7/23 15:15		1	123	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 14:04		1	54.0	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/14/23 08:30	11/14/23 14:04		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Dissolved Magnesium precision is out of specification limit.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-34HA

**Location Code:** WMWGREAP

**Collected:** 11/1/23 14:15

**Customer ID:**

**Submittal Date:** 11/2/23 11:58

**Laboratory ID Number:** BD20104

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	11/7/23 18:44	11/7/23 18:44		1	2.55	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	11/3/23 10:02	11/3/23 10:02		1	6.78	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 10:58	11/7/23 10:58		1	28.2	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	11/1/23 14:12	11/1/23 14:12			184.14	uS/cm			FA
pH	11/1/23 14:12	11/1/23 14:12			5.96	SU			FA
Temperature	11/1/23 14:12	11/1/23 14:12			23.30	C			FA
Turbidity	11/1/23 14:12	11/1/23 14:12			1.87	NTU			FA
Sulfide	11/1/23 14:12	11/1/23 14:12			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Dissolved Magnesium precision is out of specification limit.



# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 11/1/23 14:15  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-34HA

**Laboratory ID Number:** BD20104

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD20104	Aluminum, Dissolved	mg/L	0.000413	0.0198	0.100	0.103	0.103	0.0995	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD20105	Aluminum, Total	mg/L	0.000983	0.0198	0.100	0.0992	0.101	0.0979	0.0850 to 0.115	99.2	70.0 to 130	1.80	20.0
BD20104	Antimony, Dissolved	mg/L	0.000364	0.00100	0.100	0.103	0.103	0.0947	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BD20105	Antimony, Total	mg/L	0.000387	0.00100	0.100	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BD20104	Arsenic, Dissolved	mg/L	-0.0000009	0.000200	0.100	0.0958	0.0944	0.0979	0.0850 to 0.115	95.7	70.0 to 130	1.47	20.0
BD20105	Arsenic, Total	mg/L	0.0000176	0.000200	0.100	0.0926	0.0972	0.0971	0.0850 to 0.115	92.6	70.0 to 130	4.85	20.0
BD20104	Barium, Dissolved	mg/L	0.0000108	0.00100	0.100	0.144	0.141	0.0975	0.0850 to 0.115	97.7	70.0 to 130	2.11	20.0
BD20105	Barium, Total	mg/L	-0.0000192	0.00100	0.100	0.101	0.0985	0.0957	0.0850 to 0.115	101	70.0 to 130	2.51	20.0
BD20104	Beryllium, Dissolved	mg/L	0.0000056	0.000880	0.100	0.102	0.0999	0.102	0.0850 to 0.115	102	70.0 to 130	2.08	20.0
BD20105	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0977	0.0983	0.100	0.0850 to 0.115	97.7	70.0 to 130	0.612	20.0
BD20104	Boron, Dissolved	mg/L	-0.000794	0.0650	1.00	1.06	1.21	1.10	0.850 to 1.15	106	70.0 to 130	13.2	20.0
BD20105	Boron, Total	mg/L	0.00016	0.0650	1.00	1.00	1.01	1.01	0.850 to 1.15	100	70.0 to 130	0.995	20.0
BD20104	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0999	0.0986	0.105	0.0850 to 0.115	99.9	70.0 to 130	1.31	20.0
BD20105	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0994	0.101	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BD20104	Calcium, Dissolved	mg/L	-0.0586	0.152	5.00	21.9	20.3	4.36	4.25 to 5.75	114	70.0 to 130	7.58	20.0
BD20105	Calcium, Total	mg/L	-0.0336	0.152	5.00	4.90	4.93	4.93	4.25 to 5.75	98.0	70.0 to 130	0.610	20.0
BD20105	Chloride	mg/L	0.0507	1.00	10.0	10.2	10.2	10.2	9.00 to 11.0	102	80.0 to 120	0.00	20.0
BD20104	Chromium, Dissolved	mg/L	-0.0000719	0.000440	0.100	0.101	0.101	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD20105	Chromium, Total	mg/L	-0.0000794	0.000440	0.100	0.101	0.0998	0.101	0.0850 to 0.115	101	70.0 to 130	1.20	20.0
BD20104	Cobalt, Dissolved	mg/L	0.0000018	0.000147	0.100	0.106	0.105	0.107	0.0850 to 0.115	104	70.0 to 130	0.948	20.0
BD20105	Cobalt, Total	mg/L	0.0000001	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BD20104	Iron, Dissolved	mg/L	-0.000421	0.0176	0.2	0.211	0.194	0.205	0.170 to 0.230	106	70.0 to 130	8.40	20.0
BD20105	Iron, Total	mg/L	-0.000654	0.0176	0.2	0.202	0.203	0.204	0.170 to 0.230	101	70.0 to 130	0.494	20.0
BD20104	Lead, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0993	0.0981	0.101	0.0850 to 0.115	99.3	70.0 to 130	1.22	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Dissolved Magnesium precision is out of specification limit.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 11/1/23 14:15

**Customer ID:**

**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-34HA

**Laboratory ID Number:** BD20104

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD20105	Lead, Total	mg/L	0.0000036	0.000147	0.100	0.0989	0.0984	0.100	0.0850 to 0.115	98.9	70.0 to 130	0.507	20.0
BD20104	Lithium, Dissolved	mg/L	0.000587	0.0154	0.200	0.207	0.193	0.204	0.170 to 0.230	104	70.0 to 130	7.00	20.0
BD20105	Lithium, Total	mg/L	0.000259	0.0154	0.200	0.202	0.204	0.206	0.170 to 0.230	101	70.0 to 130	0.985	20.0
BD20104	Magnesium, Dissolved	mg/L	-0.00878	0.0462	5.00	7.32	5.24	4.26	4.25 to 5.75	105	70.0 to 130	33.1	20.0
BD20105	Magnesium, Total	mg/L	-0.0126	0.0462	5.00	5.01	5.07	5.10	4.25 to 5.75	100	70.0 to 130	1.19	20.0
BD20104	Manganese, Dissolved	mg/L	0.0000135	0.00033	0.100	0.101	0.101	0.101	0.0850 to 0.115	99.5	70.0 to 130	0.00	20.0
BD20105	Manganese, Total	mg/L	0.0000088	0.00033	0.100	0.0993	0.0990	0.0982	0.0850 to 0.115	99.3	70.0 to 130	0.303	20.0
BD20104	Mercury, Total by CVAA	mg/L	0.000338	0.000500	0.004	0.00353	0.00340	0.00401	0.00340 to 0.00460	88.2	70.0 to 130	3.75	20.0
BD20104	Molybdenum, Dissolved	mg/L	0.00031	0.0100	0.2	0.212	0.195	0.202	0.170 to 0.230	106	70.0 to 130	8.35	20.0
BD20105	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.210	0.210	0.210	0.170 to 0.230	105	70.0 to 130	0.00	20.0
BD20104	Potassium, Dissolved	mg/L	0.00422	0.367	10.0	11.2	11.1	10.6	8.50 to 11.5	103	70.0 to 130	0.897	20.0
BD20105	Potassium, Total	mg/L	-0.0162	0.367	10.0	10.3	10.2	10.1	8.50 to 11.5	103	70.0 to 130	0.976	20.0
BD20104	Selenium, Dissolved	mg/L	0.000215	0.00100	0.100	0.103	0.0994	0.103	0.0850 to 0.115	102	70.0 to 130	3.56	20.0
BD20105	Selenium, Total	mg/L	0.0000222	0.00100	0.100	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD20104	Silicon, Dissolved	mg/L	0.00091	0.0440	1.00	5.92	5.86	1.03	0.850 to 1.15	115	70.0 to 130	1.02	20.0
BD20105	Silicon, Total	mg/L	0.000484	0.0440	1.00	1.04	1.04	1.05	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BD20104	Sodium, Dissolved	mg/L	0.00144	0.0880	5.00	25.3	23.9	5.01	4.25 to 5.75	106	70.0 to 130	5.69	20.0
BD20105	Sodium, Total	mg/L	0.00322	0.0880	5.00	5.02	5.07	5.12	4.25 to 5.75	100	70.0 to 130	0.991	20.0
BD20105	Sulfate	mg/L	0.122	2.0	20.0	20.3	20.0	20.4	18.0 to 22.0	102	80.0 to 120	1.49	20.0
BD20104	Thallium, Dissolved	mg/L	0.0000017	0.000147	0.100	0.0993	0.0979	0.101	0.0850 to 0.115	99.3	70.0 to 130	1.42	20.0
BD20105	Thallium, Total	mg/L	0.0000134	0.000147	0.100	0.0991	0.0995	0.0992	0.0850 to 0.115	99.1	70.0 to 130	0.403	20.0
BD20104	Total Organic Carbon	mg/L	0.230	1.00	10.0	12.0	12.1	9.26		94.5	80.0 to 120	0.830	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Dissolved Magnesium precision is out of specification limit.

## Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 11/1/23 14:15

**Customer ID:**

**Delivery Date:** 11/2/23 11:58

**Description:** Greene County Ash Pond - MW-34HA

**Laboratory ID Number:** BD20104

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20104	Alkalinity	mg CaCO3/L					54.0	51.6	45.0 to 55.0			0.00	10.0
BD20105	Fluoride	mg/L	0.000000	0.0200	2.00	2.12	0.000000	2.09	1.80 to 2.20	106	80.0 to 120	0.00	20.0
BD20105	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.20	0.025	1.94	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BD20103	Solids, Dissolved	mg/L	2.00	25.0			251	56.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Dissolved Magnesium precision is out of specification limit.

# Certificate Of Analysis

**Description:** Greene County Ash Pond Equipment Blank-1

**Location Code:** WMWGREAPEB  
**Collected:** 11/1/23 14:45  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:59

**Laboratory ID Number:** BD20105

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ELH</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	11/3/23 11:25	11/7/23 15:40		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/3/23 11:25	11/7/23 15:40		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	11/3/23 11:25	11/7/23 15:40		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	11/3/23 11:25	11/7/23 15:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/3/23 11:25	11/7/23 15:40		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	11/3/23 11:25	11/7/23 15:40		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	11/3/23 11:25	11/7/23 15:40		1	Not Detected	mg/L			
* Silicon, Total	11/3/23 11:25	11/7/23 15:40		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	11/3/23 11:25	11/7/23 15:40		1.015	Not Detected	mg/L	0.04060	0.406	U
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	11/3/23 11:25	11/3/23 20:06		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	11/3/23 11:25	11/3/23 20:06		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	11/3/23 11:25	11/3/23 20:06		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	11/3/23 11:25	11/3/23 20:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	11/3/23 11:25	11/3/23 20:06		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/3/23 11:25	11/3/23 20:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/3/23 11:25	11/3/23 20:06		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	11/3/23 11:25	11/3/23 20:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	11/3/23 11:25	11/3/23 20:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/3/23 11:25	11/3/23 20:06		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	11/3/23 11:25	11/3/23 20:06		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	11/3/23 11:25	11/3/23 20:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/3/23 11:25	11/3/23 20:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>			<b>Analyst: ABB</b>						
* Mercury, Total by CVAA	11/7/23 13:27	11/8/23 16:44		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>			<b>Analyst: TJW</b>						
* Fluoride	11/16/23 05:52	11/16/23 05:52		1	Not Detected	mg/L	0.02	0.04	U
<b>Analytical Method: EPA 353.2</b>			<b>Analyst: CES</b>						
* Nitrogen, Nitrate/Nitrite	11/7/23 18:32	11/7/23 18:32		1	Not Detected	mg/L as N	0.20	0.3	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Equipment Blank-1

**Location Code:** WMWGREAPEB  
**Collected:** 11/1/23 14:45  
**Customer ID:**  
**Submittal Date:** 11/2/23 11:59

**Laboratory ID Number:** BD20105

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	11/2/23 15:00	11/7/23 15:15		1	Not Detected	mg/L		25	U
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	11/7/23 19:31	11/7/23 19:31		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500CI E</b>		<b>Analyst: JCC</b>							
* Chloride	11/3/23 10:03	11/3/23 10:03		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	11/7/23 11:00	11/7/23 11:00		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPEB

**Sample Date:** 11/1/23 14:45

**Customer ID:**

**Delivery Date:** 11/2/23 11:59

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD20105

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD20105	Aluminum, Total	mg/L	0.000983	0.0198	0.100	0.0992	0.101	0.0979	0.0850 to 0.115	99.2	70.0 to 130	1.80	20.0	
BD20105	Antimony, Total	mg/L	0.000387	0.00100	0.100	0.105	0.102	0.102	0.0850 to 0.115	105	70.0 to 130	2.90	20.0	
BD20105	Arsenic, Total	mg/L	0.0000176	0.000200	0.100	0.0926	0.0972	0.0971	0.0850 to 0.115	92.6	70.0 to 130	4.85	20.0	
BD20105	Barium, Total	mg/L	-0.0000192	0.00100	0.100	0.101	0.0985	0.0957	0.0850 to 0.115	101	70.0 to 130	2.51	20.0	
BD20105	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0977	0.0983	0.100	0.0850 to 0.115	97.7	70.0 to 130	0.612	20.0	
BD20105	Boron, Total	mg/L	0.00016	0.0650	1.00	1.00	1.01	1.01	0.850 to 1.15	100	70.0 to 130	0.995	20.0	
BD20105	Cadmium, Total	mg/L	0.0000000	0.000147	0.100	0.0994	0.101	0.102	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0	
BD20105	Calcium, Total	mg/L	-0.0336	0.152	5.00	4.90	4.93	4.93	4.25 to 5.75	98.0	70.0 to 130	0.610	20.0	
BD20105	Chloride	mg/L	0.0507	1.00	10.0	10.2	10.2	10.2	9.00 to 11.0	102	80.0 to 120	0.00	20.0	
BD20105	Chromium, Total	mg/L	-0.0000794	0.000440	0.100	0.101	0.0998	0.101	0.0850 to 0.115	101	70.0 to 130	1.20	20.0	
BD20105	Cobalt, Total	mg/L	0.0000001	0.000147	0.100	0.105	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	0.957	20.0	
BD20105	Iron, Total	mg/L	-0.000654	0.0176	0.2	0.202	0.203	0.204	0.170 to 0.230	101	70.0 to 130	0.494	20.0	
BD20105	Lead, Total	mg/L	0.0000036	0.000147	0.100	0.0989	0.0984	0.100	0.0850 to 0.115	98.9	70.0 to 130	0.507	20.0	
BD20105	Lithium, Total	mg/L	0.000259	0.0154	0.200	0.202	0.204	0.206	0.170 to 0.230	101	70.0 to 130	0.985	20.0	
BD20105	Magnesium, Total	mg/L	-0.0126	0.0462	5.00	5.01	5.07	5.10	4.25 to 5.75	100	70.0 to 130	1.19	20.0	
BD20105	Manganese, Total	mg/L	0.0000088	0.00033	0.100	0.0993	0.0990	0.0982	0.0850 to 0.115	99.3	70.0 to 130	0.303	20.0	
BD20105	Mercury, Total by CVAA	mg/L	0.00034	0.000500	0.004	0.00378	0.00373	0.00401	0.00340 to 0.00460	94.5	70.0 to 130	1.33	20.0	
BD20105	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.210	0.210	0.210	0.170 to 0.230	105	70.0 to 130	0.00	20.0	
BD20105	Potassium, Total	mg/L	-0.0162	0.367	10.0	10.3	10.2	10.1	8.50 to 11.5	103	70.0 to 130	0.976	20.0	
BD20105	Selenium, Total	mg/L	0.0000222	0.00100	0.100	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.96	20.0	
BD20105	Silicon, Total	mg/L	0.000484	0.0440	1.00	1.04	1.04	1.05	0.850 to 1.15	104	70.0 to 130	0.00	20.0	
BD20105	Sodium, Total	mg/L	0.00322	0.0880	5.00	5.02	5.07	5.12	4.25 to 5.75	100	70.0 to 130	0.991	20.0	
BD20105	Sulfate	mg/L	0.122	2.0	20.0	20.3	20.0	20.4	18.0 to 22.0	102	80.0 to 120	1.49	20.0	
BD20105	Thallium, Total	mg/L	0.0000134	0.000147	0.100	0.0991	0.0995	0.0992	0.0850 to 0.115	99.1	70.0 to 130	0.403	20.0	

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPEB  
**Sample Date:** 11/1/23 14:45  
**Customer ID:**  
**Delivery Date:** 11/2/23 11:59

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD20105

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BD20104	Total Organic Carbon	mg/L	0.230	1.00	10.0	12.0	12.1	9.26		94.5	80.0 to 120	0.830	20.0

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**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPEB

**Sample Date:** 11/1/23 14:45

**Customer ID:**

**Delivery Date:** 11/2/23 11:59

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD20105

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD20105	Fluoride	mg/L	0.000000	0.0200	2.00	2.12	0.000000	2.09	1.80 to 2.20	106	80.0 to 120	0.00	20.0
BD20105	Nitrogen, Nitrate/Nitrite	mg/L as N	0.04	0.200	2.00	2.20	0.025	1.94	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BD20103	Solids, Dissolved	mg/L	2.00	25.0			251	56.0	40.0 to 60.0			0.00	10.0

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**Comments:**



# Definitions

**Project Number:** WMWGREAP\_1430

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
A	Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are estimates due to pH>10SU and/or TDS>500mg/L.
BB	Analyte detected in reagent blank is < 10% of the sample concentration.
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
R	Matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Budd
	Collector		TJ Daugherty
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-18	10/23/2023	13:12	6	Groundwater		BD19591	<input checked="" type="checkbox"/>
MW-38H	10/23/2023	14:45	6	Groundwater		BD19592	<input checked="" type="checkbox"/>
MW-17	10/23/2023	15:45	6	Groundwater		BD19593	<input checked="" type="checkbox"/>
MW-17 Dup	10/23/2023	15:45	6	Sample Duplicate		BD19594	<input checked="" type="checkbox"/>
MW-26	10/24/2023	09:13	6	Groundwater		BD19595	<input checked="" type="checkbox"/>
MW-27	10/24/2023	10:05	6	Groundwater		BD19596	<input checked="" type="checkbox"/>
MW-28	10/24/2023	11:00	6	Groundwater		BD19597	<input checked="" type="checkbox"/>
MW-29	10/24/2023	11:57	6	Groundwater		BD19598	<input checked="" type="checkbox"/>
MW-30	10/24/2023	12:45	6	Groundwater		BD19599	<input checked="" type="checkbox"/>
MW-40H	10/24/2023	14:45	6	Groundwater		BD19600	<input checked="" type="checkbox"/>
MW-40H Dup	10/24/2023	14:45	6	Sample Duplicate		BD19601	<input checked="" type="checkbox"/>
MW-15	10/24/2023	16:05	6	Groundwater		BD19602	<input checked="" type="checkbox"/>
FB-3	10/24/2023	16:30	5	Field Blank		BD19603	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
		10/24/2023 19:00
		10/25/2023 08:14

SmarTroll ID	7586-41445-5-4	Cooler Temp	0.9 °C
Turbidity ID	9900-57262-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1430	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.

Total Metals and Alkalinity are not performed on Dissolved Sets

Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Budd
	Collector: Anthony Goggins		Requested By
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-1	10/24/2023	10:30	6	Groundwater		BD19582	<input checked="" type="checkbox"/>
MW-1Dup	10/24/2023	10:30	6	Sample Duplicate		BD19583	<input checked="" type="checkbox"/>
FB-4	10/24/2023	10:50	5	Field Blank		BD19584	<input checked="" type="checkbox"/>
MW-2	10/24/2023	12:47	6	Groundwater		BD19585	<input checked="" type="checkbox"/>
MW-3	10/24/2023	13:32	6	Groundwater		BD19586	<input checked="" type="checkbox"/>
PZ-4	10/24/2023	14:45	6	Groundwater		BD19587	<input checked="" type="checkbox"/>
PZ-4Dup	10/24/2023	14:45	6	Sample Duplicate		BD19588	<input checked="" type="checkbox"/>
FB-5	10/24/2023	15:30	5	Field Blank		BD19589	<input checked="" type="checkbox"/>
MW-5	10/24/2023	16:08	6	Groundwater		BD19590	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Greg Budd</i>	10/25/2023 08:15

SmarTroll ID	7586-41446-5-5	Cooler Temp	0.9 °C
Turbidity ID	9830-57039-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1430	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Budd
	Collector: Anthony Goggins		Requested By: Greg Budd
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments: 2 mL HNO3 added to Bottle 2 for MW-6 on 10/26/23 @ 1127. BC 10/26/23  
HNO3: 10129-58625-2-2

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-6	10/25/2023	12:35	6	Groundwater		BD19758	<input checked="" type="checkbox"/>
MW-7	10/25/2023	14:22	6	Groundwater		BD19759	<input checked="" type="checkbox"/>
MW-8	10/25/2023	15:00	6	Groundwater		BD19760	<input checked="" type="checkbox"/>
MW-9	10/25/2023	15:52	6	Groundwater		BD19761	<input checked="" type="checkbox"/>
MW-11	10/25/2023	16:33	6	Groundwater		BD19762	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Greg Budd</i>	10/26/2023 07:54

SmarTroll ID	7586-41446-5-5	Cooler Temp	1.5 °C
Turbidity ID	9830-57039-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1430	pH Strip ID	11044-63991-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

 Field Complete  
 Lab Complete

 Outside Lab

 Lab ETA 

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Budd
Collector	TJ Daugherty	Requested By	Greg Budd
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

 Comments 

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-37H	10/25/2023	09:25	6	Groundwater		BD19771	<input checked="" type="checkbox"/>
MW-16	10/25/2023	10:45	6	Groundwater		BD19772	<input checked="" type="checkbox"/>
MW-24	10/25/2023	13:00	6	Groundwater		BD19773	<input checked="" type="checkbox"/>
MW-23	10/25/2023	13:55	6	Groundwater		BD19774	<input checked="" type="checkbox"/>
MW-36H	10/25/2023	16:25	6	Groundwater		BD19775	<input checked="" type="checkbox"/>
FB-2	10/25/2023	16:55	5	Field Blank		BD19776	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
		10/26/2023 11:01

SmarTroll ID	7586-41445-5-4	Cooler Temp	1.4 °C
Turbidity ID	9900-57262-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1430	pH Strip ID	11044-63991-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks
Collector	Dallas Gentry	Requested By	Greg Budd
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments Updated MW-35H collection time from 1612 to 1611 per sample containers. BC 10/26/23

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-35H	10/24/2023	16:11	6	Groundwater		BD19763	<input checked="" type="checkbox"/>
MW-43H	10/25/2023	09:00	6	Groundwater		BD19764	<input checked="" type="checkbox"/>
MW-42H	10/25/2023	09:55	6	Groundwater		BD19765	<input checked="" type="checkbox"/>
MW-49H	10/25/2023	10:43	6	Groundwater		BD19766	<input checked="" type="checkbox"/>
MW-48H	10/25/2023	11:33	6	Groundwater		BD19767	<input checked="" type="checkbox"/>
MW-12	10/25/2023	13:19	6	Groundwater		BD19768	<input checked="" type="checkbox"/>
MW-21	10/25/2023	14:30	6	Groundwater		BD19769	<input checked="" type="checkbox"/>
MW-13	10/25/2023	16:05	6	Groundwater		BD19770	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
		10/26/2023 09:56

SmarTroll ID	7586-41443-5-2	Cooler Temp	1.0 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1430	pH Strip ID	11044-63991-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-31	10/30/2023	14:44	6	Groundwater		BD20089	<input checked="" type="checkbox"/>
MW-33	10/30/2023	15:38	6	Groundwater		BD20090	<input checked="" type="checkbox"/>
MW-32	10/30/2023	16:29	6	Groundwater		BD20091	<input checked="" type="checkbox"/>
FB-1	10/30/2023	16:55	5	Field Blank		BD20092	<input checked="" type="checkbox"/>
MW-44H	10/31/2023	10:01	6	Groundwater		BD20093	<input checked="" type="checkbox"/>
MW-54H	10/31/2023	10:59	6	Groundwater		BD20094	<input checked="" type="checkbox"/>
MW-53H	10/31/2023	12:29	6	Groundwater		BD20095	<input checked="" type="checkbox"/>
MW-57H	10/31/2023	13:20	6	Groundwater		BD20096	<input checked="" type="checkbox"/>
MW-45H	10/31/2023	14:27	6	Groundwater		BD20097	<input checked="" type="checkbox"/>
MW-41H	10/31/2023	15:17	6	Groundwater		BD20098	<input checked="" type="checkbox"/>
MW-41H dup	10/31/2023	15:17	6	Sample Duplicate		BD20099	<input checked="" type="checkbox"/>
MW-39H	10/31/2023	16:17	6	Groundwater		BD20100	<input checked="" type="checkbox"/>
MW-10	11/01/2023	11:10	6	Groundwater		BD20101	<input checked="" type="checkbox"/>
MW-14	11/01/2023	11:57	6	Groundwater		BD20102	<input checked="" type="checkbox"/>
MW-25	11/01/2023	13:05	6	Groundwater		BD20103	<input checked="" type="checkbox"/>
MW-34HA	11/01/2023	14:15	6	Groundwater		BD20104	<input checked="" type="checkbox"/>
EB-1	11/01/2023	14:45	5	Equipment Blank		BD20105	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>M. D. Gentry</i>	<i>B. Dyer</i>	11/02/2023 10:24

SmarTroll ID	7586-41443-5-2	Cooler Temp	0.4 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1430	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.

Total Metals and Alkalinity are not performed on Dissolved Sets

Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Budd
	Collector: TJ Daugherty		Requested By: Greg Budd
		Location	Greene Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-18	10/23/2023	13:12	1	Groundwater		BD19613	<input checked="" type="checkbox"/>
MW-38H	10/23/2023	14:45	1	Groundwater		BD19614	<input checked="" type="checkbox"/>
MW-17	10/23/2023	15:45	1	Groundwater		BD19615	<input checked="" type="checkbox"/>
MW-17 Dup	10/23/2023	15:45	1	Sample Duplicate		BD19616	<input checked="" type="checkbox"/>
MW-26	10/24/2023	09:13	1	Groundwater		BD19617	<input checked="" type="checkbox"/>
MW-27	10/24/2023	10:05	1	Groundwater		BD19618	<input checked="" type="checkbox"/>
MW-28	10/24/2023	11:00	1	Groundwater		BD19619	<input checked="" type="checkbox"/>
MW-29	10/24/2023	11:57	1	Groundwater		BD19620	<input checked="" type="checkbox"/>
MW-30	10/24/2023	12:45	1	Groundwater		BD19621	<input checked="" type="checkbox"/>
MW-40H	10/24/2023	14:45	1	Groundwater		BD19622	<input checked="" type="checkbox"/>
MW-40H Dup	10/24/2023	14:45	1	Sample Duplicate		BD19623	<input checked="" type="checkbox"/>
MW-15	10/24/2023	16:05	1	Groundwater		BD19624	<input checked="" type="checkbox"/>
FB-3	10/24/2023	16:30	1	Field Blank		BD19625	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
		10/24/2023 19:00
		10/25/2023 08:14

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	9900-57262-1-1	Thermometer ID	N/A
Sample Event	1430	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks





# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Budd
Collector	Anthony Goggins	Requested By	Greg Budd
		Location	Greene Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-1	10/24/2023	10:30	1	Groundwater		BD19604	<input checked="" type="checkbox"/>
MW-1Dup	10/24/2023	10:30	1	Sample Duplicate		BD19605	<input checked="" type="checkbox"/>
FB-4	10/24/2023	10:50	1	Field Blank		BD19606	<input checked="" type="checkbox"/>
MW-2	10/24/2023	12:47	1	Groundwater		BD19607	<input checked="" type="checkbox"/>
MW-3	10/24/2023	13:32	1	Groundwater		BD19608	<input checked="" type="checkbox"/>
PZ-4	10/24/2023	14:45	1	Groundwater		BD19609	<input checked="" type="checkbox"/>
PZ-4Dup	10/24/2023	14:45	1	Sample Duplicate		BD19610	<input checked="" type="checkbox"/>
FB-5	10/24/2023	15:30	1	Field Blank		BD19611	<input checked="" type="checkbox"/>
MW-5	10/24/2023	16:08	1	Groundwater		BD19612	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Burt Allen</i>	10/25/2023 08:15

SmarTroll ID	7586-41446-5-5	Cooler Temp	N/A
Turbidity ID	9830-57039-1-1	Thermometer ID	N/A
Sample Event	1430	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Budd
Collector	Anthony Goggins	Requested By	Greg Budd
		Location	Greene Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: MS/MSD collected @ MW-6; MS/MSD collected @ MW-8

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-6	10/25/2023	12:35	3	Groundwater		BD19777	<input checked="" type="checkbox"/>
MW-7	10/25/2023	14:22	1	Groundwater		BD19778	<input checked="" type="checkbox"/>
MW-8	10/25/2023	15:00	3	Groundwater		BD19779	<input checked="" type="checkbox"/>
MW-9	10/25/2023	15:52	1	Groundwater		BD19780	<input checked="" type="checkbox"/>
MW-11	10/25/2023	16:33	1	Groundwater		BD19781	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Budd/Gordon</i>	10/26/2023 07:54

SmarTroll ID	7586-41446-5-5	Cooler Temp	N/A
Turbidity ID	9830-57039-1-1	Thermometer ID	N/A
Sample Event	1430	pH Strip ID	11044-63991-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Budd
	Collector: TJ Daugherty		Requested By
		Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-37H	10/25/2023	09:25	1	Groundwater		BD19790	<input checked="" type="checkbox"/>
MW-16	10/25/2023	10:45	1	Groundwater		BD19791	<input checked="" type="checkbox"/>
MW-24	10/25/2023	13:00	1	Groundwater		BD19792	<input checked="" type="checkbox"/>
MW-23	10/25/2023	13:55	1	Groundwater		BD19793	<input checked="" type="checkbox"/>
MW-36H	10/25/2023	16:25	1	Groundwater		BD19794	<input checked="" type="checkbox"/>
FB-2	10/25/2023	16:55	1	Field Blank		BD19795	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	10/26/2023 11:01

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	9900-57262-1-1	Thermometer ID	N/A
Sample Event	1430	pH Strip ID	11044-63991-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks
	Collector: Dallas Gentry		Requested By: Greg Budd
		Location	Greene Ash Pond

Bottles	1 Radium 1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: Radium MS/MSD collected at MW-48H  
Updated MW-35H collection time from 1612 to 1611 per sample container. BC 10/26/23

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-35H	10/24/2023	16:11	1	Groundwater		BD19782	<input checked="" type="checkbox"/>
MW-43H	10/25/2023	09:00	1	Groundwater		BD19783	<input checked="" type="checkbox"/>
MW-42H	10/25/2023	09:55	1	Groundwater		BD19784	<input checked="" type="checkbox"/>
MW-49H	10/25/2023	10:43	1	Groundwater		BD19785	<input checked="" type="checkbox"/>
MW-48H	10/25/2023	11:33	3	Groundwater		BD19786	<input checked="" type="checkbox"/>
MW-12	10/25/2023	13:19	1	Groundwater		BD19787	<input checked="" type="checkbox"/>
MW-21	10/25/2023	14:30	1	Groundwater		BD19788	<input checked="" type="checkbox"/>
MW-13	10/25/2023	16:05	1	Groundwater		BD19789	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Greg Budd</i>	10/26/2023 09:56

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1430	pH Strip ID	11044-63991-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector		Dallas Gentry
		Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-31	10/30/2023	14:44	1	Groundwater		BD20106	<input checked="" type="checkbox"/>
MW-33	10/30/2023	15:38	1	Groundwater		BD20107	<input checked="" type="checkbox"/>
MW-32	10/30/2023	16:29	1	Groundwater		BD20108	<input checked="" type="checkbox"/>
FB-1	10/30/2023	16:55	1	Field Blank		BD20109	<input checked="" type="checkbox"/>
MW-44H	10/31/2023	10:01	1	Groundwater		BD20110	<input checked="" type="checkbox"/>
MW-54H	10/31/2023	10:59	1	Groundwater		BD20111	<input checked="" type="checkbox"/>
MW-53H	10/31/2023	12:29	1	Groundwater		BD20112	<input checked="" type="checkbox"/>
MW-57H	10/31/2023	13:20	1	Groundwater		BD20113	<input checked="" type="checkbox"/>
MW-45H	10/31/2023	14:27	1	Groundwater		BD20114	<input checked="" type="checkbox"/>
MW-41H	10/31/2023	15:17	1	Groundwater		BD20115	<input checked="" type="checkbox"/>
MW-41H dup	10/31/2023	15:17	1	Sample Duplicate		BD20116	<input checked="" type="checkbox"/>
MW-39H	10/31/2023	16:17	1	Groundwater		BD20117	<input checked="" type="checkbox"/>
MW-10	11/01/2023	11:10	1	Groundwater		BD20118	<input checked="" type="checkbox"/>
MW-14	11/01/2023	11:57	1	Groundwater		BD20119	<input checked="" type="checkbox"/>
MW-25	11/01/2023	13:05	1	Groundwater		BD20120	<input checked="" type="checkbox"/>
MW-34HA	11/01/2023	14:15	1	Groundwater		BD20121	<input checked="" type="checkbox"/>
EB-1	11/01/2023	14:45	1	Groundwater		BD20122	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
<i>Melinda Dyer</i>	<i>Burke Cotton</i>	11/02/2023 10:24

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1430	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks

Alabama Power  
General Test Laboratory  
744 County Road 87, GSC #8  
Calera, AL 35040  
205-664-6001

# *Analytical Report*



**Sample Group :** WMWGREAP\_1429

**Project/Site :** Greene County Ash Pond  
Demopolis, AL 36732

**For :** Southern Company Services  
3535 Colonnade Parkway  
Birmingham, AL 35243

**Attention :** Dustin Brooks & Greg Budd

**Released By :** Brooke Caton  
tbwill@southernco.com  
(205) 664-6101

November 21, 2023

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on October 25, 2023. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114  
Issued By: State of Florida, Department of Health  
Expiration: June 30, 2024

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Quality Control: **Brooke  
Caton**

Digitally signed by Brooke  
Caton  
Date: 2023.11.21  
13:46:27 -06'00'

Supervision: **T Durant  
Maske**

Digitally signed by T Durant Maske  
DN: cn=T Durant Maske, gn=T Durant Maske, c=US  
United States, e=US United States  
e=t.durmaske@supherno.com  
Reason: I am the author of this document  
Location:  
Date: 2023-11-21 14:29:06:00



### REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.  
This document shall not be reproduced, except in full, without written consent from  
Alabama Power's General Test Laboratory.



# Case Narrative

Total Metals ICP

Greene Co. Ash Pond

WMWGREAP\_1429

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19560	769755	WMWGREAP_1429
BD19561	769755	WMWGREAP_1429
BD19562	769755	WMWGREAP_1429
BD19563	769755	WMWGREAP_1429
BD19564	769755	WMWGREAP_1429
BD19565	769755	WMWGREAP_1429
BD19566	769755	WMWGREAP_1429
BD19567	769755	WMWGREAP_1429
BD19568	769755	WMWGREAP_1429
BD19569	769755	WMWGREAP_1429
BD19570	769756	WMWGREAP_1429

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

## General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed, and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range,



any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19568	Calcium	10.15

8. The raw data results are shown with dilution factors included.

## Case Narrative

Dissolved Metals ICP

Greene Co. Ash Pond

WMWGREAP\_1429

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19560	769703	WMWGREAP_1429
BD19561	769703	WMWGREAP_1429
BD19563	769703	WMWGREAP_1429
BD19564	769703	WMWGREAP_1429
BD19565	769703	WMWGREAP_1429
BD19566	769703	WMWGREAP_1429
BD19567	769703	WMWGREAP_1429
BD19568	769703	WMWGREAP_1429
BD19569	769703	WMWGREAP_1429

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any

qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19568	Calcium	10.15

8. The raw data results are shown with dilution factors included.

Total Metals ICPMS

Greene Co. Ash Pond

WMWGREAP\_1429

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19560	770534	WMWGREAP_1429
BD19561	770534	WMWGREAP_1429
BD19562	770534	WMWGREAP_1429
BD19563	770534	WMWGREAP_1429
BD19564	770534	WMWGREAP_1429
BD19565	770534	WMWGREAP_1429
BD19566	770534	WMWGREAP_1429
BD19567	770534	WMWGREAP_1429
BD19568	770534	WMWGREAP_1429
BD19569	770534	WMWGREAP_1429
BD19570	770535	WMWGREAP_1429

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.

- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

#### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19565	Manganese	5.075
BD19568	Manganese	10.15

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Greene Co. Ash Pond

WMWGREAP\_1429

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19560	770408	WMWGREAP_1429
BD19561	770408	WMWGREAP_1429
BD19563	770408	WMWGREAP_1429
BD19564	770408	WMWGREAP_1429
BD19565	770408	WMWGREAP_1429
BD19566	770408	WMWGREAP_1429
BD19567	770408	WMWGREAP_1429
BD19568	770408	WMWGREAP_1429
BD19569	770408	WMWGREAP_1429

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional

QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19565	Manganese	5.075
BD19568	Manganese	10.15

8. The raw data results are shown with dilution factors included.

## Case Narrative

Mercury

Greene Co. Ash Pond

WMWGREAP\_1429

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19560	769666	WMWGREAP_1429
BD19561	769666	WMWGREAP_1429
BD19562	769666	WMWGREAP_1429
BD19563	769666	WMWGREAP_1429
BD19564	769666	WMWGREAP_1429
BD19565	769666	WMWGREAP_1429
BD19566	770047	WMWGREAP_1429
BD19567	770047	WMWGREAP_1429
BD19568	770047	WMWGREAP_1429
BD19569	770047	WMWGREAP_1429
BD19570	770047	WMWGREAP_1429

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.



### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.

## Case Narrative

Total Dissolved Solids

Greene Co. Ash Pond

WMWGREAP\_1429

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19560	769661	WMWGREAP_1429
BD19561	769661	WMWGREAP_1429
BD19562	769661	WMWGREAP_1429
BD19563	769661	WMWGREAP_1429
BD19564	769661	WMWGREAP_1429
BD19565	769673	WMWGREAP_1429
BD19566	769673	WMWGREAP_1429
BD19567	769673	WMWGREAP_1429
BD19568	769673	WMWGREAP_1429
BD19569	769673	WMWGREAP_1429
BD19570	769673	WMWGREAP_1429

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was  $\leq 10\%$ .
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue  $< 2.5\text{mg}$  had the maximum volume of 150mL filtered. Affected samples are as follows:
  - BD19562
  - BD19570

# Case Narrative

Alkalinity

Greene Co. Ash Pond

WMWGREAP\_1429

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19560	770753, 770754, 770755, 770756	WMWGREAP_1429
BD19561	770753, 770754, 770755, 770756	WMWGREAP_1429
BD19563	770753, 770754, 770755, 770756	WMWGREAP_1429
BD19564	770753, 770754, 770755, 770756	WMWGREAP_1429
BD19565	770753, 770754, 770755, 770756	WMWGREAP_1429
BD19566	770753, 770754, 770755, 770756	WMWGREAP_1429
BD19567	770753, 770754, 770755, 770756	WMWGREAP_1429
BD19568	770753, 770754, 770755, 770756	WMWGREAP_1429
BD19569	770753, 770754, 770755, 770756	WMWGREAP_1429

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.

Anions

Greene Co. Ash Pond

WMWGREAP\_1429

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19560	770162, 770026	WMWGREAP_1429
BD19561	770162, 770026	WMWGREAP_1429
BD19562	770162, 770026	WMWGREAP_1429
BD19563	770162, 770026	WMWGREAP_1429
BD19564	770162, 770026	WMWGREAP_1429
BD19565	770162, 770026	WMWGREAP_1429
BD19566	770162, 770026	WMWGREAP_1429
BD19567	770162, 770026	WMWGREAP_1429
BD19568	770162, 770026	WMWGREAP_1429
BD19569	770162, 770027	WMWGREAP_1429
BD19570	770163, 770027	WMWGREAP_1429

4. All of the above samples were analyzed and prepared by SM4500 Cl E and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

#### Matrix Specific Quality Control Procedures:

Revision 5

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19565	Sulfate	3
BD19568	Sulfate	16

8. The raw data results are shown with dilution factors included.

## Anions by Ion Chromatography

Greene Co. Ash Pond

WMWGREAP\_1429

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19560	771444	WMWGREAP_1429
BD19561	771444	WMWGREAP_1429
BD19562	771444	WMWGREAP_1429
BD19562	771444	WMWGREAP_1429
BD19564	771444	WMWGREAP_1429
BD19565	771444	WMWGREAP_1429
BD19566	771444	WMWGREAP_1429
BD19567	771444	WMWGREAP_1429
BD19568	771444	WMWGREAP_1429
BD19569	771444	WMWGREAP_1429
BD19570	771445	WMWGREAP_1429

4. All of the above samples were analyzed and prepared by EPA 300.0.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below half the the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Revision 5

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike was analyzed with each batch. All acceptance criteria for accuracy were met.
  - A sample duplicate was analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
  8. The raw data results are shown with dilution factors included.

Nitrate-Nitrite

Greene Co. Ash Pond

WMWGREAP\_1429

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19560	769671	WMWGREAP_1429
BD19561	769671	WMWGREAP_1429
BD19562	769671	WMWGREAP_1429
BD19563	769671	WMWGREAP_1429
BD19564	769671	WMWGREAP_1429
BD19565	769671	WMWGREAP_1429
BD19566	769671	WMWGREAP_1429
BD19567	769671	WMWGREAP_1429
BD19568	769671	WMWGREAP_1429
BD19569	769671	WMWGREAP_1429
BD19570	769672	WMWGREAP_1429

4. All of the above samples were prepared and analyzed for NO<sub>x</sub> by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
  - A sample duplicate was run and criteria for precision was met.



## Case Narrative

- A matrix spike was run and criteria for accuracy was met, except for the following:
  - BD19569 Matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.
- 7. All samples were analyzed without a dilution factor.
- 8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Greene Co. Ash Pond

WMWGREAP\_1429

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19560	769925	WMWGREAP_1429
BD19561	769925	WMWGREAP_1429
BD19562	769925	WMWGREAP_1429
BD19563	769925	WMWGREAP_1429
BD19564	769925	WMWGREAP_1429
BD19565	769925	WMWGREAP_1429
BD19566	769926	WMWGREAP_1429
BD19567	769926	WMWGREAP_1429
BD19568	769926	WMWGREAP_1429
BD19569	769926	WMWGREAP_1429
BD19570	769926	WMWGREAP_1429

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.

## **Case Narrative**

7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-62HO

**Location Code:** WMWGREAP  
**Collected:** 10/23/23 14:31  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:48

**Laboratory ID Number:** BD19560

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	10/26/23 12:09	11/1/23 17:13		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/26/23 12:09	11/1/23 17:13		1.015	8.86	mg/L	0.070035	0.406		
* Iron, Total	10/26/23 12:09	11/1/23 17:13		1.015	0.0204	mg/L	0.008120	0.0406	J	
* Lithium, Total	10/26/23 12:09	11/1/23 17:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/26/23 12:09	11/1/23 17:13		1.015	1.05	mg/L	0.021315	0.406		
* Molybdenum, Total	10/26/23 12:09	11/1/23 17:13		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/26/23 12:09	11/1/23 17:13		1	6.31	mg/L				
* Silicon, Total	10/26/23 12:09	11/1/23 17:13		1.015	2.95	mg/L	0.02030	0.25375		
* Sodium, Total	10/26/23 12:09	11/1/23 17:13		1.015	2.09	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	10/26/23 09:34	11/1/23 16:22		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	10/26/23 09:34	11/1/23 16:22		1.015	8.81	mg/L	0.070035	0.406		
* Iron, Dissolved	10/26/23 09:34	11/1/23 16:22		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	10/26/23 09:34	11/1/23 16:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	10/26/23 09:34	11/1/23 16:22		1.015	1.03	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	10/26/23 09:34	11/1/23 16:22		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	10/26/23 09:34	11/1/23 16:22		1	6.29	mg/L				
* Silicon, Dissolved	10/26/23 09:34	11/1/23 16:22		1.015	2.94	mg/L	0.02030	0.25375		
* Sodium, Dissolved	10/26/23 09:34	11/1/23 16:22		1.015	2.05	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	10/26/23 12:09	10/26/23 19:04		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Arsenic, Total	10/26/23 12:09	10/26/23 19:04		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Aluminum, Total	10/26/23 12:09	10/26/23 19:04		1.015	0.0686	mg/L	0.009135	0.05075		
* Barium, Total	10/26/23 12:09	10/26/23 19:04		1.015	0.0637	mg/L	0.000508	0.001015		
* Beryllium, Total	10/26/23 12:09	10/26/23 19:04		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/26/23 12:09	10/26/23 19:04		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/26/23 12:09	10/26/23 19:04		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	10/26/23 12:09	10/26/23 19:04		1.015	0.000186	mg/L	0.000068	0.000203	J	
* Lead, Total	10/26/23 12:09	10/26/23 19:04		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/26/23 12:09	10/26/23 19:04		1.015	0.0137	mg/L	0.000152	0.001015		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-62HO

**Location Code:** WMWGREAP  
**Collected:** 10/23/23 14:31  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:48

**Laboratory ID Number:** BD19560

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 12:09	10/26/23 19:04		1.015	0.725	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 12:09	10/26/23 19:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 12:09	10/26/23 19:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 09:34	10/26/23 13:39		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 09:34	10/26/23 13:39		1.015	0.00987	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	10/26/23 09:34	10/26/23 13:39		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/26/23 09:34	10/26/23 13:39		1.015	0.0653	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 09:34	10/26/23 13:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 09:34	10/26/23 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/26/23 09:34	10/26/23 13:39		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 09:34	10/26/23 13:39		1.015	0.000128	mg/L	0.000068	0.000203	J
* Lead, Dissolved	10/26/23 09:34	10/26/23 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 09:34	10/26/23 13:39		1.015	0.0108	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/26/23 09:34	10/26/23 13:39		1.015	0.721	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 09:34	10/26/23 13:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 09:34	10/26/23 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 16:13		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/14/23 17:16	11/14/23 17:16		1	0.0287	mg/L	0.02	0.04	J
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/25/23 14:00	10/25/23 14:00		1	0.211	mg/L as N	0.20	0.3	J
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 10:38	11/3/23 12:15		1	4.20	SU		2	
* Alkalinity	11/3/23 10:38	11/3/23 12:15		1	13.3	mg CaCO3/L		1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 12:48	10/26/23 13:38		1	56.7	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 10:38	11/3/23 12:15		1	13.3	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/3/23 10:38	11/3/23 12:15		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-62HO

**Location Code:** WMWGREAP  
**Collected:** 10/23/23 14:31  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:48

**Laboratory ID Number:** BD19560

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/26/23 15:21	10/26/23 15:21		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:17	10/30/23 14:17		1	2.16	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:00	10/26/23 11:00		1	14.1	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/23/23 14:28	10/23/23 14:28			88.06	uS/cm			FA
pH	10/23/23 14:28	10/23/23 14:28			5.72	SU			FA
Temperature	10/23/23 14:28	10/23/23 14:28			20.38	C			FA
Turbidity	10/23/23 14:28	10/23/23 14:28			4.16	NTU			FA
Sulfide	10/23/23 14:28	10/23/23 14:28			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 10/23/23 14:31

**Customer ID:**

**Delivery Date:** 10/25/23 09:48

**Description:** Greene County Ash Pond - MW-62HO

**Laboratory ID Number:** BD19560

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD19569	Aluminum, Dissolved	mg/L	-0.0000397	0.0198	0.100	0.106	0.104	0.0939	0.0850 to 0.115	96.5	70.0 to 130	1.90	20.0	
BD19569	Aluminum, Total	mg/L	0.000874	0.0198	0.100	0.182	0.192	0.0989	0.0850 to 0.115	116	70.0 to 130	5.35	20.0	
BD19569	Antimony, Dissolved	mg/L	0.000235	0.00100	0.100	0.0992	0.0955	0.0923	0.0850 to 0.115	99.2	70.0 to 130	3.80	20.0	
BD19569	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.101	0.0982	0.0985	0.0850 to 0.115	101	70.0 to 130	2.81	20.0	
BD19569	Arsenic, Dissolved	mg/L	-0.0000007	0.000200	0.100	0.0973	0.0992	0.0982	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0	
BD19569	Arsenic, Total	mg/L	0.0000181	0.000200	0.100	0.0986	0.0983	0.0965	0.0850 to 0.115	98.6	70.0 to 130	0.305	20.0	
BD19569	Barium, Dissolved	mg/L	0.0000116	0.00100	0.100	0.129	0.125	0.0979	0.0850 to 0.115	101	70.0 to 130	3.15	20.0	
BD19569	Barium, Total	mg/L	-0.0000077	0.00100	0.100	0.133	0.125	0.0987	0.0850 to 0.115	105	70.0 to 130	6.20	20.0	
BD19569	Beryllium, Dissolved	mg/L	0.0000098	0.000880	0.100	0.100	0.0994	0.0965	0.0850 to 0.115	100	70.0 to 130	0.602	20.0	
BD19569	Beryllium, Total	mg/L	0.0000164	0.000880	0.100	0.0979	0.102	0.0918	0.0850 to 0.115	97.9	70.0 to 130	4.10	20.0	
BD19569	Boron, Dissolved	mg/L	0.000149	0.0650	1.00	0.946	0.943	0.924	0.850 to 1.15	94.6	70.0 to 130	0.318	20.0	
BD19569	Boron, Total	mg/L	-0.000007	0.0650	1.00	0.956	0.954	0.934	0.850 to 1.15	95.6	70.0 to 130	0.209	20.0	
BD19569	Cadmium, Dissolved	mg/L	0.0000062	0.000147	0.100	0.0894	0.0890	0.0918	0.0850 to 0.115	89.4	70.0 to 130	0.448	20.0	
BD19569	Cadmium, Total	mg/L	0.0000023	0.000147	0.100	0.0914	0.0939	0.0939	0.0850 to 0.115	91.4	70.0 to 130	2.70	20.0	
BD19569	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	6.78	6.83	4.74	4.25 to 5.75	95.8	70.0 to 130	0.735	20.0	
BD19569	Calcium, Total	mg/L	-0.0244	0.152	5.00	6.74	6.91	4.84	4.25 to 5.75	94.8	70.0 to 130	2.49	20.0	
BD19569	Chloride	mg/L	0.0631	1.00	10.0	14.0	13.5	10.2	9.00 to 11.0	107	80.0 to 120	3.64	20.0	
BD19569	Chromium, Dissolved	mg/L	-0.000153	0.000440	0.100	0.101	0.0995	0.0976	0.0850 to 0.115	101	70.0 to 130	1.50	20.0	
BD19569	Chromium, Total	mg/L	-0.000152	0.000440	0.100	0.0982	0.101	0.0982	0.0850 to 0.115	97.8	70.0 to 130	2.81	20.0	
BD19569	Cobalt, Dissolved	mg/L	-0.0000246	0.000147	0.100	0.103	0.103	0.0990	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BD19569	Cobalt, Total	mg/L	-0.0000240	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	101	70.0 to 130	1.94	20.0	
BD19569	Iron, Dissolved	mg/L	0.00111	0.0176	0.2	0.192	0.192	0.191	0.170 to 0.230	96.0	70.0 to 130	0.00	20.0	
BD19569	Iron, Total	mg/L	-0.000536	0.0176	0.2	0.216	0.215	0.189	0.170 to 0.230	101	70.0 to 130	0.464	20.0	
BD19569	Lead, Dissolved	mg/L	0.0000041	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/23/23 14:31  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:48

**Description:** Greene County Ash Pond - MW-62HO

**Laboratory ID Number:** BD19560

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19569	Lead, Total	mg/L	0.0000046	0.000147	0.100	0.103	0.107	0.105	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BD19569	Lithium, Dissolved	mg/L	0.000314	0.0154	0.200	0.192	0.195	0.191	0.170 to 0.230	96.0	70.0 to 130	1.55	20.0
BD19569	Lithium, Total	mg/L	0.000678	0.0154	0.200	0.192	0.199	0.194	0.170 to 0.230	96.0	70.0 to 130	3.58	20.0
BD19569	Magnesium, Dissolved	mg/L	-0.0274	0.0462	5.00	6.13	6.16	4.74	4.25 to 5.75	95.0	70.0 to 130	0.488	20.0
BD19569	Magnesium, Total	mg/L	-0.0162	0.0462	5.00	6.09	6.27	4.84	4.25 to 5.75	94.0	70.0 to 130	2.91	20.0
BD19569	Manganese, Dissolved	mg/L	0.0000124	0.00033	0.100	0.113	0.111	0.102	0.0850 to 0.115	105	70.0 to 130	1.79	20.0
BD19569	Manganese, Total	mg/L	0.0000248	0.00033	0.100	0.110	0.113	0.104	0.0850 to 0.115	102	70.0 to 130	2.69	20.0
BD19565	Mercury, Total by CVAA	mg/L	5.090E-06	0.000500	0.004	0.00372	0.00372	0.00385	0.00340 to 0.00460	93.0	70.0 to 130	0.00	20.0
BD19569	Molybdenum, Dissolved	mg/L	-0.000030	0.0100	0.2	0.198	0.198	0.199	0.170 to 0.230	99.0	70.0 to 130	0.00	20.0
BD19569	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.199	0.200	0.200	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD19569	Potassium, Dissolved	mg/L	0.00100	0.367	10.0	11.4	11.2	9.40	8.50 to 11.5	98.0	70.0 to 130	1.77	20.0
BD19569	Potassium, Total	mg/L	0.00233	0.367	10.0	11.2	11.4	9.72	8.50 to 11.5	96.1	70.0 to 130	1.77	20.0
BD19569	Selenium, Dissolved	mg/L	0.0000637	0.00100	0.100	0.0994	0.100	0.0981	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD19569	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.0968	0.0977	0.0996	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19569	Silicon, Dissolved	mg/L	-0.000183	0.0440	1.00	5.55	5.54	0.955	0.850 to 1.15	98.0	70.0 to 130	0.180	20.0
BD19569	Silicon, Total	mg/L	-0.000764	0.0440	1.00	5.62	5.68	0.967	0.850 to 1.15	99.0	70.0 to 130	1.06	20.0
BD19569	Sodium, Dissolved	mg/L	0.00683	0.0880	5.00	9.02	9.07	4.78	4.25 to 5.75	94.8	70.0 to 130	0.553	20.0
BD19569	Sodium, Total	mg/L	0.00422	0.0880	5.00	9.01	9.32	4.85	4.25 to 5.75	93.4	70.0 to 130	3.38	20.0
BD19568	Sulfate	mg/L	-0.0948	2.0	320	506	518	19.9	18.0 to 22.0	97.8	80.0 to 120	2.34	20.0
BD19569	Thallium, Dissolved	mg/L	-0.0000313	0.000147	0.100	0.102	0.104	0.107	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD19569	Thallium, Total	mg/L	-0.0000244	0.000147	0.100	0.106	0.110	0.108	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BD19565	Total Organic Carbon	mg/L	0.265	1.00	10.0	10.6	10.4	24.9		96.0	80.0 to 120	1.90	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/23/23 14:31  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:48

**Description:** Greene County Ash Pond - MW-62HO

**Laboratory ID Number:** BD19560

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19568	Alkalinity	mg CaCO3/L					81.2	51.1	45.0 to 55.0			0.494	10.0
BD19569	Fluoride	mg/L	0.000000	0.0200	2.00	2.11	0.0272	2.07	1.80 to 2.20	104	80.0 to 120	12.5	20.0
BD19569	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.28	0.201	1.87	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD19564	Solids, Dissolved	mg/L	3.00	25.0			93.3	56.0	40.0 to 60.0			0.645	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-63HO

**Location Code:** WMWGREAP  
**Collected:** 10/23/23 16:04  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:48

**Laboratory ID Number:** BD19561

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	10/26/23 12:09	11/1/23 17:16		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/26/23 12:09	11/1/23 17:16		1.015	7.04	mg/L	0.070035	0.406		
* Iron, Total	10/26/23 12:09	11/1/23 17:16		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	10/26/23 12:09	11/1/23 17:16		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/26/23 12:09	11/1/23 17:16		1.015	1.24	mg/L	0.021315	0.406		
* Molybdenum, Total	10/26/23 12:09	11/1/23 17:16		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/26/23 12:09	11/1/23 17:16		1	6.03	mg/L				
* Silicon, Total	10/26/23 12:09	11/1/23 17:16		1.015	2.82	mg/L	0.02030	0.25375		
* Sodium, Total	10/26/23 12:09	11/1/23 17:16		1.015	2.30	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	10/26/23 09:34	11/1/23 16:25		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	10/26/23 09:34	11/1/23 16:25		1.015	6.94	mg/L	0.070035	0.406		
* Iron, Dissolved	10/26/23 09:34	11/1/23 16:25		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	10/26/23 09:34	11/1/23 16:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	10/26/23 09:34	11/1/23 16:25		1.015	1.24	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	10/26/23 09:34	11/1/23 16:25		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	10/26/23 09:34	11/1/23 16:25		1	6.03	mg/L				
* Silicon, Dissolved	10/26/23 09:34	11/1/23 16:25		1.015	2.82	mg/L	0.02030	0.25375		
* Sodium, Dissolved	10/26/23 09:34	11/1/23 16:25		1.015	2.27	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	10/26/23 12:09	10/26/23 19:08		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	10/26/23 12:09	10/26/23 19:08		1.015	0.0254	mg/L	0.009135	0.05075	J	
* Arsenic, Total	10/26/23 12:09	10/26/23 19:08		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	10/26/23 12:09	10/26/23 19:08		1.015	0.0493	mg/L	0.000508	0.001015		
* Beryllium, Total	10/26/23 12:09	10/26/23 19:08		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/26/23 12:09	10/26/23 19:08		1.015	0.0000741	mg/L	0.000068	0.000203	J	
* Chromium, Total	10/26/23 12:09	10/26/23 19:08		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	10/26/23 12:09	10/26/23 19:08		1.015	0.000112	mg/L	0.000068	0.000203	J	
* Lead, Total	10/26/23 12:09	10/26/23 19:08		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/26/23 12:09	10/26/23 19:08		1.015	0.00911	mg/L	0.000152	0.001015		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-63HO

**Location Code:** WMWGREAP  
**Collected:** 10/23/23 16:04  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:48

**Laboratory ID Number:** BD19561

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 12:09	10/26/23 19:08		1.015	0.791	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 12:09	10/26/23 19:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 12:09	10/26/23 19:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 09:34	10/26/23 13:42		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 09:34	10/26/23 13:42		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/26/23 09:34	10/26/23 13:42		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/26/23 09:34	10/26/23 13:42		1.015	0.0494	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 09:34	10/26/23 13:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 09:34	10/26/23 13:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/26/23 09:34	10/26/23 13:42		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 09:34	10/26/23 13:42		1.015	0.000113	mg/L	0.000068	0.000203	J
* Lead, Dissolved	10/26/23 09:34	10/26/23 13:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 09:34	10/26/23 13:42		1.015	0.00886	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/26/23 09:34	10/26/23 13:42		1.015	0.790	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 09:34	10/26/23 13:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 09:34	10/26/23 13:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 16:15		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/14/23 17:40	11/14/23 17:40		1	Not Detected	mg/L	0.02	0.04	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/25/23 14:02	10/25/23 14:02		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 10:38	11/3/23 12:15		1	1.14	SU		2	J
* Alkalinity	11/3/23 10:38	11/3/23 12:15		1	6.28	mg CaCO3/L		1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 12:48	10/26/23 13:38		1	50.7	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 10:38	11/3/23 12:15		1	6.28	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/3/23 10:38	11/3/23 12:15		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-63HO

**Location Code:** WMWGREAP  
**Collected:** 10/23/23 16:04  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:48

**Laboratory ID Number:** BD19561

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/26/23 15:36	10/26/23 15:36		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:18	10/30/23 14:18		1	2.46	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:01	10/26/23 11:01		1	19.0	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/23/23 16:00	10/23/23 16:00			87.13	uS/cm			FA
pH	10/23/23 16:00	10/23/23 16:00			5.47	SU			FA
Temperature	10/23/23 16:00	10/23/23 16:00			19.68	C			FA
Turbidity	10/23/23 16:00	10/23/23 16:00			3.32	NTU			FA
Sulfide	10/23/23 16:00	10/23/23 16:00			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/23/23 16:04  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:48

**Description:** Greene County Ash Pond - MW-63HO

**Laboratory ID Number:** BD19561

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19569	Aluminum, Dissolved	mg/L	-0.000397	0.0198	0.100	0.106	0.104	0.0939	0.0850 to 0.115	96.5	70.0 to 130	1.90	20.0
BD19569	Aluminum, Total	mg/L	0.000874	0.0198	0.100	0.182	0.192	0.0989	0.0850 to 0.115	116	70.0 to 130	5.35	20.0
BD19569	Antimony, Dissolved	mg/L	0.000235	0.00100	0.100	0.0992	0.0955	0.0923	0.0850 to 0.115	99.2	70.0 to 130	3.80	20.0
BD19569	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.101	0.0982	0.0985	0.0850 to 0.115	101	70.0 to 130	2.81	20.0
BD19569	Arsenic, Dissolved	mg/L	-0.0000007	0.000200	0.100	0.0973	0.0992	0.0982	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0
BD19569	Arsenic, Total	mg/L	0.0000181	0.000200	0.100	0.0986	0.0983	0.0965	0.0850 to 0.115	98.6	70.0 to 130	0.305	20.0
BD19569	Barium, Dissolved	mg/L	0.0000116	0.00100	0.100	0.129	0.125	0.0979	0.0850 to 0.115	101	70.0 to 130	3.15	20.0
BD19569	Barium, Total	mg/L	-0.0000077	0.00100	0.100	0.133	0.125	0.0987	0.0850 to 0.115	105	70.0 to 130	6.20	20.0
BD19569	Beryllium, Dissolved	mg/L	0.0000098	0.000880	0.100	0.100	0.0994	0.0965	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BD19569	Beryllium, Total	mg/L	0.0000164	0.000880	0.100	0.0979	0.102	0.0918	0.0850 to 0.115	97.9	70.0 to 130	4.10	20.0
BD19569	Boron, Dissolved	mg/L	0.000149	0.0650	1.00	0.946	0.943	0.924	0.850 to 1.15	94.6	70.0 to 130	0.318	20.0
BD19569	Boron, Total	mg/L	-0.000007	0.0650	1.00	0.956	0.954	0.934	0.850 to 1.15	95.6	70.0 to 130	0.209	20.0
BD19569	Cadmium, Dissolved	mg/L	0.0000062	0.000147	0.100	0.0894	0.0890	0.0918	0.0850 to 0.115	89.4	70.0 to 130	0.448	20.0
BD19569	Cadmium, Total	mg/L	0.0000023	0.000147	0.100	0.0914	0.0939	0.0939	0.0850 to 0.115	91.4	70.0 to 130	2.70	20.0
BD19569	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	6.78	6.83	4.74	4.25 to 5.75	95.8	70.0 to 130	0.735	20.0
BD19569	Calcium, Total	mg/L	-0.0244	0.152	5.00	6.74	6.91	4.84	4.25 to 5.75	94.8	70.0 to 130	2.49	20.0
BD19569	Chloride	mg/L	0.0631	1.00	10.0	14.0	13.5	10.2	9.00 to 11.0	107	80.0 to 120	3.64	20.0
BD19569	Chromium, Dissolved	mg/L	-0.000153	0.000440	0.100	0.101	0.0995	0.0976	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BD19569	Chromium, Total	mg/L	-0.000152	0.000440	0.100	0.0982	0.101	0.0982	0.0850 to 0.115	97.8	70.0 to 130	2.81	20.0
BD19569	Cobalt, Dissolved	mg/L	-0.0000246	0.000147	0.100	0.103	0.103	0.0990	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19569	Cobalt, Total	mg/L	-0.0000240	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BD19569	Iron, Dissolved	mg/L	0.00111	0.0176	0.2	0.192	0.192	0.191	0.170 to 0.230	96.0	70.0 to 130	0.00	20.0
BD19569	Iron, Total	mg/L	-0.000536	0.0176	0.2	0.216	0.215	0.189	0.170 to 0.230	101	70.0 to 130	0.464	20.0
BD19569	Lead, Dissolved	mg/L	0.0000041	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/23/23 16:04  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:48

**Description:** Greene County Ash Pond - MW-63HO

**Laboratory ID Number:** BD19561

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19569	Lead, Total	mg/L	0.0000046	0.000147	0.100	0.103	0.107	0.105	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BD19569	Lithium, Dissolved	mg/L	0.000314	0.0154	0.200	0.192	0.195	0.191	0.170 to 0.230	96.0	70.0 to 130	1.55	20.0
BD19569	Lithium, Total	mg/L	0.000678	0.0154	0.200	0.192	0.199	0.194	0.170 to 0.230	96.0	70.0 to 130	3.58	20.0
BD19569	Magnesium, Dissolved	mg/L	-0.0274	0.0462	5.00	6.13	6.16	4.74	4.25 to 5.75	95.0	70.0 to 130	0.488	20.0
BD19569	Magnesium, Total	mg/L	-0.0162	0.0462	5.00	6.09	6.27	4.84	4.25 to 5.75	94.0	70.0 to 130	2.91	20.0
BD19569	Manganese, Dissolved	mg/L	0.0000124	0.00033	0.100	0.113	0.111	0.102	0.0850 to 0.115	105	70.0 to 130	1.79	20.0
BD19569	Manganese, Total	mg/L	0.0000248	0.00033	0.100	0.110	0.113	0.104	0.0850 to 0.115	102	70.0 to 130	2.69	20.0
BD19565	Mercury, Total by CVAA	mg/L	5.090E-06	0.000500	0.004	0.00372	0.00372	0.00385	0.00340 to 0.00460	93.0	70.0 to 130	0.00	20.0
BD19569	Molybdenum, Dissolved	mg/L	-0.000030	0.0100	0.2	0.198	0.198	0.199	0.170 to 0.230	99.0	70.0 to 130	0.00	20.0
BD19569	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.199	0.200	0.200	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD19569	Potassium, Dissolved	mg/L	0.00100	0.367	10.0	11.4	11.2	9.40	8.50 to 11.5	98.0	70.0 to 130	1.77	20.0
BD19569	Potassium, Total	mg/L	0.00233	0.367	10.0	11.2	11.4	9.72	8.50 to 11.5	96.1	70.0 to 130	1.77	20.0
BD19569	Selenium, Dissolved	mg/L	0.0000637	0.00100	0.100	0.0994	0.100	0.0981	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD19569	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.0968	0.0977	0.0996	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19569	Silicon, Dissolved	mg/L	-0.000183	0.0440	1.00	5.55	5.54	0.955	0.850 to 1.15	98.0	70.0 to 130	0.180	20.0
BD19569	Silicon, Total	mg/L	-0.000764	0.0440	1.00	5.62	5.68	0.967	0.850 to 1.15	99.0	70.0 to 130	1.06	20.0
BD19569	Sodium, Dissolved	mg/L	0.00683	0.0880	5.00	9.02	9.07	4.78	4.25 to 5.75	94.8	70.0 to 130	0.553	20.0
BD19569	Sodium, Total	mg/L	0.00422	0.0880	5.00	9.01	9.32	4.85	4.25 to 5.75	93.4	70.0 to 130	3.38	20.0
BD19568	Sulfate	mg/L	-0.0948	2.0	320	506	518	19.9	18.0 to 22.0	97.8	80.0 to 120	2.34	20.0
BD19569	Thallium, Dissolved	mg/L	-0.0000313	0.000147	0.100	0.102	0.104	0.107	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD19569	Thallium, Total	mg/L	-0.0000244	0.000147	0.100	0.106	0.110	0.108	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BD19565	Total Organic Carbon	mg/L	0.265	1.00	10.0	10.6	10.4	24.9		96.0	80.0 to 120	1.90	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/23/23 16:04  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:48

**Description:** Greene County Ash Pond - MW-63HO

**Laboratory ID Number:** BD19561

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19568	Alkalinity	mg CaCO3/L					81.2	51.1	45.0 to 55.0			0.494	10.0
BD19569	Fluoride	mg/L	0.000000	0.0200	2.00	2.11	0.0272	2.07	1.80 to 2.20	104	80.0 to 120	12.5	20.0
BD19569	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.28	0.201	1.87	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD19564	Solids, Dissolved	mg/L	3.00	25.0			93.3	56.0	40.0 to 60.0			0.645	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-1

**Location Code:** WMWGREAPFB  
**Collected:** 10/23/23 16:20  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19562

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 12:09	11/1/23 17:20		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/26/23 12:09	11/1/23 17:20		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	10/26/23 12:09	11/1/23 17:20		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/26/23 12:09	11/1/23 17:20		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/26/23 12:09	11/1/23 17:20		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	10/26/23 12:09	11/1/23 17:20		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 12:09	11/1/23 17:20		1	Not Detected	mg/L			
* Silicon, Total	10/26/23 12:09	11/1/23 17:20		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	10/26/23 12:09	11/1/23 17:20		1.015	Not Detected	mg/L	0.04060	0.406	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 12:09	10/26/23 19:12		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/26/23 12:09	10/26/23 19:12		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	10/26/23 12:09	10/26/23 19:12		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/26/23 12:09	10/26/23 19:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	10/26/23 12:09	10/26/23 19:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 12:09	10/26/23 19:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/26/23 12:09	10/26/23 19:12		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/26/23 12:09	10/26/23 19:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/26/23 12:09	10/26/23 19:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/26/23 12:09	10/26/23 19:12		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	10/26/23 12:09	10/26/23 19:12		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/26/23 12:09	10/26/23 19:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 12:09	10/26/23 19:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 16:18		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/14/23 18:03	11/14/23 18:03		1	Not Detected	mg/L	0.02	0.04	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/25/23 14:04	10/25/23 14:04		1	Not Detected	mg/L as N	0.20	0.3	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**



# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-1

**Location Code:** WMWGREAPFB  
**Collected:** 10/23/23 16:20  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19562

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 12:48	10/26/23 13:38		1	Not Detected	mg/L		25	U
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/26/23 15:50	10/26/23 15:50		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500CI E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:19	10/30/23 14:19		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:02	10/26/23 11:02		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB  
**Sample Date:** 10/23/23 16:20  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD19562

Sample	Analysis	Units	MB				Standard			Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19569	Aluminum, Total	mg/L	0.000874	0.0198	0.100	0.182	0.192	0.0989	0.0850 to 0.115	116	70.0 to 130	5.35	20.0
BD19569	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.101	0.0982	0.0985	0.0850 to 0.115	101	70.0 to 130	2.81	20.0
BD19569	Arsenic, Total	mg/L	0.0000181	0.000200	0.100	0.0986	0.0983	0.0965	0.0850 to 0.115	98.6	70.0 to 130	0.305	20.0
BD19569	Barium, Total	mg/L	-0.0000077	0.00100	0.100	0.133	0.125	0.0987	0.0850 to 0.115	105	70.0 to 130	6.20	20.0
BD19569	Beryllium, Total	mg/L	0.0000164	0.000880	0.100	0.0979	0.102	0.0918	0.0850 to 0.115	97.9	70.0 to 130	4.10	20.0
BD19569	Boron, Total	mg/L	-0.000007	0.0650	1.00	0.956	0.954	0.934	0.850 to 1.15	95.6	70.0 to 130	0.209	20.0
BD19569	Cadmium, Total	mg/L	0.0000023	0.000147	0.100	0.0914	0.0939	0.0939	0.0850 to 0.115	91.4	70.0 to 130	2.70	20.0
BD19569	Calcium, Total	mg/L	-0.0244	0.152	5.00	6.74	6.91	4.84	4.25 to 5.75	94.8	70.0 to 130	2.49	20.0
BD19569	Chloride	mg/L	0.0631	1.00	10.0	14.0	13.5	10.2	9.00 to 11.0	107	80.0 to 120	3.64	20.0
BD19569	Chromium, Total	mg/L	-0.000152	0.000440	0.100	0.0982	0.101	0.0982	0.0850 to 0.115	97.8	70.0 to 130	2.81	20.0
BD19569	Cobalt, Total	mg/L	-0.0000240	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BD19569	Iron, Total	mg/L	-0.000536	0.0176	0.2	0.216	0.215	0.189	0.170 to 0.230	101	70.0 to 130	0.464	20.0
BD19569	Lead, Total	mg/L	0.0000046	0.000147	0.100	0.103	0.107	0.105	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BD19569	Lithium, Total	mg/L	0.000678	0.0154	0.200	0.192	0.199	0.194	0.170 to 0.230	96.0	70.0 to 130	3.58	20.0
BD19569	Magnesium, Total	mg/L	-0.0162	0.0462	5.00	6.09	6.27	4.84	4.25 to 5.75	94.0	70.0 to 130	2.91	20.0
BD19569	Manganese, Total	mg/L	0.0000248	0.00033	0.100	0.110	0.113	0.104	0.0850 to 0.115	102	70.0 to 130	2.69	20.0
BD19565	Mercury, Total by CVAA	mg/L	5.090E-06	0.000500	0.004	0.00372	0.00372	0.00385	0.00340 to 0.00460	93.0	70.0 to 130	0.00	20.0
BD19569	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.199	0.200	0.200	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD19569	Potassium, Total	mg/L	0.00233	0.367	10.0	11.2	11.4	9.72	8.50 to 11.5	96.1	70.0 to 130	1.77	20.0
BD19569	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.0968	0.0977	0.0996	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19569	Silicon, Total	mg/L	-0.000764	0.0440	1.00	5.62	5.68	0.967	0.850 to 1.15	99.0	70.0 to 130	1.06	20.0
BD19569	Sodium, Total	mg/L	0.00422	0.0880	5.00	9.01	9.32	4.85	4.25 to 5.75	93.4	70.0 to 130	3.38	20.0
BD19568	Sulfate	mg/L	-0.0948	2.0	320	506	518	19.9	18.0 to 22.0	97.8	80.0 to 120	2.34	20.0
BD19569	Thallium, Total	mg/L	-0.0000244	0.000147	0.100	0.106	0.110	0.108	0.0850 to 0.115	106	70.0 to 130	3.70	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB  
**Sample Date:** 10/23/23 16:20  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD19562

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BD19565	Total Organic Carbon	mg/L	0.265	1.00	10.0	10.6	10.4	24.9		96.0	80.0 to 120	1.90	20.0

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**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 10/23/23 16:20

**Customer ID:**

**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD19562

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BD19569	Fluoride	mg/L	0.000000	0.0200	2.00	2.11	0.0272	2.07	1.80 to 2.20	104	80.0 to 120	12.5	20.0
BD19569	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.28	0.201	1.87	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD19564	Solids, Dissolved	mg/L	3.00	25.0			93.3	56.0	40.0 to 60.0			0.645	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-47HO

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 08:59  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19563

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 12:09	11/1/23 17:23		1.015	0.0835	mg/L	0.030000	0.1015	J
* Calcium, Total	10/26/23 12:09	11/1/23 17:23		1.015	12.5	mg/L	0.070035	0.406	
* Iron, Total	10/26/23 12:09	11/1/23 17:23		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/26/23 12:09	11/1/23 17:23		1.015	0.0362	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/26/23 12:09	11/1/23 17:23		1.015	3.37	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 12:09	11/1/23 17:23		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 12:09	11/1/23 17:23		1	6.23	mg/L			
* Silicon, Total	10/26/23 12:09	11/1/23 17:23		1.015	2.91	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 12:09	11/1/23 17:23		1.015	7.65	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/26/23 09:34	11/1/23 16:29		1.015	0.0831	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	10/26/23 09:34	11/1/23 16:29		1.015	12.2	mg/L	0.070035	0.406	
* Iron, Dissolved	10/26/23 09:34	11/1/23 16:29		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	10/26/23 09:34	11/1/23 16:29		1.015	0.0354	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/26/23 09:34	11/1/23 16:29		1.015	3.31	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 09:34	11/1/23 16:29		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/26/23 09:34	11/1/23 16:29		1	6.21	mg/L			
* Silicon, Dissolved	10/26/23 09:34	11/1/23 16:29		1.015	2.90	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 09:34	11/1/23 16:29		1.015	7.54	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 12:09	10/26/23 19:15		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/26/23 12:09	10/26/23 19:15		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	10/26/23 12:09	10/26/23 19:15		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/26/23 12:09	10/26/23 19:15		1.015	0.0247	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 12:09	10/26/23 19:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 12:09	10/26/23 19:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/26/23 12:09	10/26/23 19:15		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/26/23 12:09	10/26/23 19:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/26/23 12:09	10/26/23 19:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/26/23 12:09	10/26/23 19:15		1.015	0.0187	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-47HO

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 08:59  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19563

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 12:09	10/26/23 19:15		1.015	2.98	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 12:09	10/26/23 19:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 12:09	10/26/23 19:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 09:34	10/26/23 13:46		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 09:34	10/26/23 13:46		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/26/23 09:34	10/26/23 13:46		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/26/23 09:34	10/26/23 13:46		1.015	0.0240	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 09:34	10/26/23 13:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 09:34	10/26/23 13:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/26/23 09:34	10/26/23 13:46		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 09:34	10/26/23 13:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/26/23 09:34	10/26/23 13:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 09:34	10/26/23 13:46		1.015	0.0176	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/26/23 09:34	10/26/23 13:46		1.015	2.82	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 09:34	10/26/23 13:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 09:34	10/26/23 13:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 16:20		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/14/23 18:26	11/14/23 18:26		1	0.0226	mg/L	0.02	0.04	J
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/25/23 14:06	10/25/23 14:06		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 10:38	11/3/23 12:15		1	4.50	SU		2	
* Alkalinity	11/3/23 10:38	11/3/23 12:15		1	25.1	mg CaCO3/L		1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 12:48	10/26/23 13:38		1	92.0	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 10:38	11/3/23 12:15		1	25.1	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/3/23 10:38	11/3/23 12:15		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-47HO

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 08:59  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19563

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/26/23 16:02	10/26/23 16:02		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:21	10/30/23 14:21		1	3.28	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:03	10/26/23 11:03		1	36.4	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/24/23 08:56	10/24/23 08:56			144.41	uS/cm			FA
pH	10/24/23 08:56	10/24/23 08:56			5.85	SU			FA
Temperature	10/24/23 08:56	10/24/23 08:56			23.25	C			FA
Turbidity	10/24/23 08:56	10/24/23 08:56			1.8	NTU			FA
Sulfide	10/24/23 08:56	10/24/23 08:56			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 08:59  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-47HO

**Laboratory ID Number:** BD19563

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec		
BD19569	Aluminum, Dissolved	mg/L	-0.0000397	0.0198	0.100	0.106	0.104	0.0939	0.0850 to 0.115	96.5	70.0 to 130	1.90	20.0	
BD19569	Aluminum, Total	mg/L	0.000874	0.0198	0.100	0.182	0.192	0.0989	0.0850 to 0.115	116	70.0 to 130	5.35	20.0	
BD19569	Antimony, Dissolved	mg/L	0.000235	0.00100	0.100	0.0992	0.0955	0.0923	0.0850 to 0.115	99.2	70.0 to 130	3.80	20.0	
BD19569	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.101	0.0982	0.0985	0.0850 to 0.115	101	70.0 to 130	2.81	20.0	
BD19569	Arsenic, Dissolved	mg/L	-0.0000007	0.000200	0.100	0.0973	0.0992	0.0982	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0	
BD19569	Arsenic, Total	mg/L	0.0000181	0.000200	0.100	0.0986	0.0983	0.0965	0.0850 to 0.115	98.6	70.0 to 130	0.305	20.0	
BD19569	Barium, Dissolved	mg/L	0.0000116	0.00100	0.100	0.129	0.125	0.0979	0.0850 to 0.115	101	70.0 to 130	3.15	20.0	
BD19569	Barium, Total	mg/L	-0.0000077	0.00100	0.100	0.133	0.125	0.0987	0.0850 to 0.115	105	70.0 to 130	6.20	20.0	
BD19569	Beryllium, Dissolved	mg/L	0.0000098	0.000880	0.100	0.100	0.0994	0.0965	0.0850 to 0.115	100	70.0 to 130	0.602	20.0	
BD19569	Beryllium, Total	mg/L	0.0000164	0.000880	0.100	0.0979	0.102	0.0918	0.0850 to 0.115	97.9	70.0 to 130	4.10	20.0	
BD19569	Boron, Dissolved	mg/L	0.000149	0.0650	1.00	0.946	0.943	0.924	0.850 to 1.15	94.6	70.0 to 130	0.318	20.0	
BD19569	Boron, Total	mg/L	-0.000007	0.0650	1.00	0.956	0.954	0.934	0.850 to 1.15	95.6	70.0 to 130	0.209	20.0	
BD19569	Cadmium, Dissolved	mg/L	0.0000062	0.000147	0.100	0.0894	0.0890	0.0918	0.0850 to 0.115	89.4	70.0 to 130	0.448	20.0	
BD19569	Cadmium, Total	mg/L	0.0000023	0.000147	0.100	0.0914	0.0939	0.0939	0.0850 to 0.115	91.4	70.0 to 130	2.70	20.0	
BD19569	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	6.78	6.83	4.74	4.25 to 5.75	95.8	70.0 to 130	0.735	20.0	
BD19569	Calcium, Total	mg/L	-0.0244	0.152	5.00	6.74	6.91	4.84	4.25 to 5.75	94.8	70.0 to 130	2.49	20.0	
BD19569	Chloride	mg/L	0.0631	1.00	10.0	14.0	13.5	10.2	9.00 to 11.0	107	80.0 to 120	3.64	20.0	
BD19569	Chromium, Dissolved	mg/L	-0.000153	0.000440	0.100	0.101	0.0995	0.0976	0.0850 to 0.115	101	70.0 to 130	1.50	20.0	
BD19569	Chromium, Total	mg/L	-0.000152	0.000440	0.100	0.0982	0.101	0.0982	0.0850 to 0.115	97.8	70.0 to 130	2.81	20.0	
BD19569	Cobalt, Dissolved	mg/L	-0.0000246	0.000147	0.100	0.103	0.103	0.0990	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BD19569	Cobalt, Total	mg/L	-0.0000240	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	101	70.0 to 130	1.94	20.0	
BD19569	Iron, Dissolved	mg/L	0.00111	0.0176	0.2	0.192	0.192	0.191	0.170 to 0.230	96.0	70.0 to 130	0.00	20.0	
BD19569	Iron, Total	mg/L	-0.000536	0.0176	0.2	0.216	0.215	0.189	0.170 to 0.230	101	70.0 to 130	0.464	20.0	
BD19569	Lead, Dissolved	mg/L	0.0000041	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 08:59  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-47HO

**Laboratory ID Number:** BD19563

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19569	Lead, Total	mg/L	0.0000046	0.000147	0.100	0.103	0.107	0.105	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BD19569	Lithium, Dissolved	mg/L	0.000314	0.0154	0.200	0.192	0.195	0.191	0.170 to 0.230	96.0	70.0 to 130	1.55	20.0
BD19569	Lithium, Total	mg/L	0.000678	0.0154	0.200	0.192	0.199	0.194	0.170 to 0.230	96.0	70.0 to 130	3.58	20.0
BD19569	Magnesium, Dissolved	mg/L	-0.0274	0.0462	5.00	6.13	6.16	4.74	4.25 to 5.75	95.0	70.0 to 130	0.488	20.0
BD19569	Magnesium, Total	mg/L	-0.0162	0.0462	5.00	6.09	6.27	4.84	4.25 to 5.75	94.0	70.0 to 130	2.91	20.0
BD19569	Manganese, Dissolved	mg/L	0.0000124	0.00033	0.100	0.113	0.111	0.102	0.0850 to 0.115	105	70.0 to 130	1.79	20.0
BD19569	Manganese, Total	mg/L	0.0000248	0.00033	0.100	0.110	0.113	0.104	0.0850 to 0.115	102	70.0 to 130	2.69	20.0
BD19565	Mercury, Total by CVAA	mg/L	5.090E-06	0.000500	0.004	0.00372	0.00372	0.00385	0.00340 to 0.00460	93.0	70.0 to 130	0.00	20.0
BD19569	Molybdenum, Dissolved	mg/L	-0.000030	0.0100	0.2	0.198	0.198	0.199	0.170 to 0.230	99.0	70.0 to 130	0.00	20.0
BD19569	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.199	0.200	0.200	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD19569	Potassium, Dissolved	mg/L	0.00100	0.367	10.0	11.4	11.2	9.40	8.50 to 11.5	98.0	70.0 to 130	1.77	20.0
BD19569	Potassium, Total	mg/L	0.00233	0.367	10.0	11.2	11.4	9.72	8.50 to 11.5	96.1	70.0 to 130	1.77	20.0
BD19569	Selenium, Dissolved	mg/L	0.0000637	0.00100	0.100	0.0994	0.100	0.0981	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD19569	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.0968	0.0977	0.0996	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19569	Silicon, Dissolved	mg/L	-0.000183	0.0440	1.00	5.55	5.54	0.955	0.850 to 1.15	98.0	70.0 to 130	0.180	20.0
BD19569	Silicon, Total	mg/L	-0.000764	0.0440	1.00	5.62	5.68	0.967	0.850 to 1.15	99.0	70.0 to 130	1.06	20.0
BD19569	Sodium, Dissolved	mg/L	0.00683	0.0880	5.00	9.02	9.07	4.78	4.25 to 5.75	94.8	70.0 to 130	0.553	20.0
BD19569	Sodium, Total	mg/L	0.00422	0.0880	5.00	9.01	9.32	4.85	4.25 to 5.75	93.4	70.0 to 130	3.38	20.0
BD19568	Sulfate	mg/L	-0.0948	2.0	320	506	518	19.9	18.0 to 22.0	97.8	80.0 to 120	2.34	20.0
BD19569	Thallium, Dissolved	mg/L	-0.0000313	0.000147	0.100	0.102	0.104	0.107	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD19569	Thallium, Total	mg/L	-0.0000244	0.000147	0.100	0.106	0.110	0.108	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BD19565	Total Organic Carbon	mg/L	0.265	1.00	10.0	10.6	10.4	24.9		96.0	80.0 to 120	1.90	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 08:59  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-47HO

**Laboratory ID Number:** BD19563

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19568	Alkalinity	mg CaCO3/L					81.2	51.1	45.0 to 55.0			0.494	10.0
BD19569	Fluoride	mg/L	0.000000	0.0200	2.00	2.11	0.0272	2.07	1.80 to 2.20	104	80.0 to 120	12.5	20.0
BD19569	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.28	0.201	1.87	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD19564	Solids, Dissolved	mg/L	3.00	25.0			93.3	56.0	40.0 to 60.0			0.645	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-47HO Dup

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 08:59  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19564

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 12:09	11/1/23 17:26		1.015	0.0838	mg/L	0.030000	0.1015	J
* Calcium, Total	10/26/23 12:09	11/1/23 17:26		1.015	12.4	mg/L	0.070035	0.406	
* Iron, Total	10/26/23 12:09	11/1/23 17:26		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/26/23 12:09	11/1/23 17:26		1.015	0.0358	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/26/23 12:09	11/1/23 17:26		1.015	3.33	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 12:09	11/1/23 17:26		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 12:09	11/1/23 17:26		1	6.25	mg/L			
* Silicon, Total	10/26/23 12:09	11/1/23 17:26		1.015	2.92	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 12:09	11/1/23 17:26		1.015	7.55	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/26/23 09:34	11/1/23 16:32		1.015	0.0825	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	10/26/23 09:34	11/1/23 16:32		1.015	11.9	mg/L	0.070035	0.406	
* Iron, Dissolved	10/26/23 09:34	11/1/23 16:32		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	10/26/23 09:34	11/1/23 16:32		1.015	0.0352	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/26/23 09:34	11/1/23 16:32		1.015	3.30	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 09:34	11/1/23 16:32		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/26/23 09:34	11/1/23 16:32		1	6.21	mg/L			
* Silicon, Dissolved	10/26/23 09:34	11/1/23 16:32		1.015	2.90	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 09:34	11/1/23 16:32		1.015	7.45	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 12:09	10/26/23 19:19		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Arsenic, Total	10/26/23 12:09	10/26/23 19:19		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Aluminum, Total	10/26/23 12:09	10/26/23 19:19		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Barium, Total	10/26/23 12:09	10/26/23 19:19		1.015	0.0238	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 12:09	10/26/23 19:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 12:09	10/26/23 19:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/26/23 12:09	10/26/23 19:19		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/26/23 12:09	10/26/23 19:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/26/23 12:09	10/26/23 19:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/26/23 12:09	10/26/23 19:19		1.015	0.0182	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-47HO Dup

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 08:59  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19564

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 12:09	10/26/23 19:19		1.015	2.90	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 12:09	10/26/23 19:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 12:09	10/26/23 19:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 09:34	10/26/23 13:50		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 09:34	10/26/23 13:50		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/26/23 09:34	10/26/23 13:50		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/26/23 09:34	10/26/23 13:50		1.015	0.0234	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 09:34	10/26/23 13:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 09:34	10/26/23 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/26/23 09:34	10/26/23 13:50		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 09:34	10/26/23 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	10/26/23 09:34	10/26/23 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 09:34	10/26/23 13:50		1.015	0.0181	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/26/23 09:34	10/26/23 13:50		1.015	2.82	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 09:34	10/26/23 13:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 09:34	10/26/23 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 16:22		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/14/23 18:50	11/14/23 18:50		1	0.0226	mg/L	0.02	0.04	J
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/25/23 14:08	10/25/23 14:08		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 10:38	11/3/23 12:15		1	4.43	SU		2	
* Alkalinity	11/3/23 10:38	11/3/23 12:15		1	25.9	mg CaCO3/L		1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 12:48	10/26/23 13:38		1	92.7	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 10:38	11/3/23 12:15		1	25.9	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/3/23 10:38	11/3/23 12:15		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-47HO Dup

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 08:59  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19564

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/26/23 16:15	10/26/23 16:15		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:22	10/30/23 14:22		1	3.27	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:04	10/26/23 11:04		1	36.5	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/24/23 08:56	10/24/23 08:56			144.41	uS/cm			FA
pH	10/24/23 08:56	10/24/23 08:56			5.85	SU			FA
Temperature	10/24/23 08:56	10/24/23 08:56			23.25	C			FA
Turbidity	10/24/23 08:56	10/24/23 08:56			1.8	NTU			FA
Sulfide	10/24/23 08:56	10/24/23 08:56			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 08:59  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-47HO Dup

**Laboratory ID Number:** BD19564

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19569	Aluminum, Dissolved	mg/L	-0.0000397	0.0198	0.100	0.106	0.104	0.0939	0.0850 to 0.115	96.5	70.0 to 130	1.90	20.0
BD19569	Aluminum, Total	mg/L	0.000874	0.0198	0.100	0.182	0.192	0.0989	0.0850 to 0.115	116	70.0 to 130	5.35	20.0
BD19569	Antimony, Dissolved	mg/L	0.000235	0.00100	0.100	0.0992	0.0955	0.0923	0.0850 to 0.115	99.2	70.0 to 130	3.80	20.0
BD19569	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.101	0.0982	0.0985	0.0850 to 0.115	101	70.0 to 130	2.81	20.0
BD19569	Arsenic, Dissolved	mg/L	-0.0000007	0.000200	0.100	0.0973	0.0992	0.0982	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0
BD19569	Arsenic, Total	mg/L	0.0000181	0.000200	0.100	0.0986	0.0983	0.0965	0.0850 to 0.115	98.6	70.0 to 130	0.305	20.0
BD19569	Barium, Dissolved	mg/L	0.0000116	0.00100	0.100	0.129	0.125	0.0979	0.0850 to 0.115	101	70.0 to 130	3.15	20.0
BD19569	Barium, Total	mg/L	-0.0000077	0.00100	0.100	0.133	0.125	0.0987	0.0850 to 0.115	105	70.0 to 130	6.20	20.0
BD19569	Beryllium, Dissolved	mg/L	0.0000098	0.000880	0.100	0.100	0.0994	0.0965	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BD19569	Beryllium, Total	mg/L	0.0000164	0.000880	0.100	0.0979	0.102	0.0918	0.0850 to 0.115	97.9	70.0 to 130	4.10	20.0
BD19569	Boron, Dissolved	mg/L	0.000149	0.0650	1.00	0.946	0.943	0.924	0.850 to 1.15	94.6	70.0 to 130	0.318	20.0
BD19569	Boron, Total	mg/L	-0.000007	0.0650	1.00	0.956	0.954	0.934	0.850 to 1.15	95.6	70.0 to 130	0.209	20.0
BD19569	Cadmium, Dissolved	mg/L	0.0000062	0.000147	0.100	0.0894	0.0890	0.0918	0.0850 to 0.115	89.4	70.0 to 130	0.448	20.0
BD19569	Cadmium, Total	mg/L	0.0000023	0.000147	0.100	0.0914	0.0939	0.0939	0.0850 to 0.115	91.4	70.0 to 130	2.70	20.0
BD19569	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	6.78	6.83	4.74	4.25 to 5.75	95.8	70.0 to 130	0.735	20.0
BD19569	Calcium, Total	mg/L	-0.0244	0.152	5.00	6.74	6.91	4.84	4.25 to 5.75	94.8	70.0 to 130	2.49	20.0
BD19569	Chloride	mg/L	0.0631	1.00	10.0	14.0	13.5	10.2	9.00 to 11.0	107	80.0 to 120	3.64	20.0
BD19569	Chromium, Dissolved	mg/L	-0.000153	0.000440	0.100	0.101	0.0995	0.0976	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BD19569	Chromium, Total	mg/L	-0.000152	0.000440	0.100	0.0982	0.101	0.0982	0.0850 to 0.115	97.8	70.0 to 130	2.81	20.0
BD19569	Cobalt, Dissolved	mg/L	-0.0000246	0.000147	0.100	0.103	0.103	0.0990	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19569	Cobalt, Total	mg/L	-0.0000240	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BD19569	Iron, Dissolved	mg/L	0.00111	0.0176	0.2	0.192	0.192	0.191	0.170 to 0.230	96.0	70.0 to 130	0.00	20.0
BD19569	Iron, Total	mg/L	-0.000536	0.0176	0.2	0.216	0.215	0.189	0.170 to 0.230	101	70.0 to 130	0.464	20.0
BD19569	Lead, Dissolved	mg/L	0.0000041	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 08:59  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-47HO Dup

**Laboratory ID Number:** BD19564

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19569	Lead, Total	mg/L	0.0000046	0.000147	0.100	0.103	0.107	0.105	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BD19569	Lithium, Dissolved	mg/L	0.000314	0.0154	0.200	0.192	0.195	0.191	0.170 to 0.230	96.0	70.0 to 130	1.55	20.0
BD19569	Lithium, Total	mg/L	0.000678	0.0154	0.200	0.192	0.199	0.194	0.170 to 0.230	96.0	70.0 to 130	3.58	20.0
BD19569	Magnesium, Dissolved	mg/L	-0.0274	0.0462	5.00	6.13	6.16	4.74	4.25 to 5.75	95.0	70.0 to 130	0.488	20.0
BD19569	Magnesium, Total	mg/L	-0.0162	0.0462	5.00	6.09	6.27	4.84	4.25 to 5.75	94.0	70.0 to 130	2.91	20.0
BD19569	Manganese, Dissolved	mg/L	0.0000124	0.00033	0.100	0.113	0.111	0.102	0.0850 to 0.115	105	70.0 to 130	1.79	20.0
BD19569	Manganese, Total	mg/L	0.0000248	0.00033	0.100	0.110	0.113	0.104	0.0850 to 0.115	102	70.0 to 130	2.69	20.0
BD19565	Mercury, Total by CVAA	mg/L	5.090E-06	0.000500	0.004	0.00372	0.00372	0.00385	0.00340 to 0.00460	93.0	70.0 to 130	0.00	20.0
BD19569	Molybdenum, Dissolved	mg/L	-0.000030	0.0100	0.2	0.198	0.198	0.199	0.170 to 0.230	99.0	70.0 to 130	0.00	20.0
BD19569	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.199	0.200	0.200	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD19569	Potassium, Dissolved	mg/L	0.00100	0.367	10.0	11.4	11.2	9.40	8.50 to 11.5	98.0	70.0 to 130	1.77	20.0
BD19569	Potassium, Total	mg/L	0.00233	0.367	10.0	11.2	11.4	9.72	8.50 to 11.5	96.1	70.0 to 130	1.77	20.0
BD19569	Selenium, Dissolved	mg/L	0.0000637	0.00100	0.100	0.0994	0.100	0.0981	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD19569	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.0968	0.0977	0.0996	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19569	Silicon, Dissolved	mg/L	-0.000183	0.0440	1.00	5.55	5.54	0.955	0.850 to 1.15	98.0	70.0 to 130	0.180	20.0
BD19569	Silicon, Total	mg/L	-0.000764	0.0440	1.00	5.62	5.68	0.967	0.850 to 1.15	99.0	70.0 to 130	1.06	20.0
BD19569	Sodium, Dissolved	mg/L	0.00683	0.0880	5.00	9.02	9.07	4.78	4.25 to 5.75	94.8	70.0 to 130	0.553	20.0
BD19569	Sodium, Total	mg/L	0.00422	0.0880	5.00	9.01	9.32	4.85	4.25 to 5.75	93.4	70.0 to 130	3.38	20.0
BD19568	Sulfate	mg/L	-0.0948	2.0	320	506	518	19.9	18.0 to 22.0	97.8	80.0 to 120	2.34	20.0
BD19569	Thallium, Dissolved	mg/L	-0.0000313	0.000147	0.100	0.102	0.104	0.107	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD19569	Thallium, Total	mg/L	-0.0000244	0.000147	0.100	0.106	0.110	0.108	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BD19565	Total Organic Carbon	mg/L	0.265	1.00	10.0	10.6	10.4	24.9		96.0	80.0 to 120	1.90	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 08:59  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-47HO Dup

**Laboratory ID Number:** BD19564

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19568	Alkalinity	mg CaCO3/L					81.2	51.1	45.0 to 55.0			0.494	10.0
BD19569	Fluoride	mg/L	0.000000	0.0200	2.00	2.11	0.0272	2.07	1.80 to 2.20	104	80.0 to 120	12.5	20.0
BD19569	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.28	0.201	1.87	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD19564	Solids, Dissolved	mg/L	3.00	25.0			93.3	56.0	40.0 to 60.0			0.645	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-50HO

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 10:00  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19565

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 12:09	11/1/23 17:29		1.015	0.182	mg/L	0.030000	0.1015	
* Calcium, Total	10/26/23 12:09	11/1/23 17:29		1.015	25.9	mg/L	0.070035	0.406	
* Iron, Total	10/26/23 12:09	11/1/23 17:29		1.015	0.0564	mg/L	0.008120	0.0406	
* Lithium, Total	10/26/23 12:09	11/1/23 17:29		1.015	0.0673	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/26/23 12:09	11/1/23 17:29		1.015	4.58	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 12:09	11/1/23 17:29		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 12:09	11/1/23 17:29		1	6.74	mg/L			
* Silicon, Total	10/26/23 12:09	11/1/23 17:29		1.015	3.15	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 12:09	11/1/23 17:29		1.015	11.3	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/26/23 09:34	11/1/23 16:35		1.015	0.181	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/26/23 09:34	11/1/23 16:35		1.015	25.4	mg/L	0.070035	0.406	
* Iron, Dissolved	10/26/23 09:34	11/1/23 16:35		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	10/26/23 09:34	11/1/23 16:35		1.015	0.0671	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/26/23 09:34	11/1/23 16:35		1.015	4.52	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 09:34	11/1/23 16:35		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/26/23 09:34	11/1/23 16:35		1	6.63	mg/L			
* Silicon, Dissolved	10/26/23 09:34	11/1/23 16:35		1.015	3.10	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 09:34	11/1/23 16:35		1.015	11.3	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 12:09	10/26/23 19:23		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 12:09	10/26/23 19:23		1.015	0.0790	mg/L	0.009135	0.05075	
* Arsenic, Total	10/26/23 12:09	10/26/23 19:23		1.015	0.000122	mg/L	0.000112	0.000203	J
* Barium, Total	10/26/23 12:09	10/26/23 19:23		1.015	0.0457	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 12:09	10/26/23 19:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 12:09	10/26/23 19:23		1.015	0.000245	mg/L	0.000068	0.000203	
* Chromium, Total	10/26/23 12:09	10/26/23 19:23		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/26/23 12:09	10/26/23 19:23		1.015	0.00517	mg/L	0.000068	0.000203	
* Lead, Total	10/26/23 12:09	10/26/23 19:23		1.015	0.0000729	mg/L	0.000068	0.000203	J
* Manganese, Total	10/26/23 12:09	10/30/23 12:04		5.075	3.24	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-50HO

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 10:00  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19565

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 12:09	10/26/23 19:23		1.015	4.03	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 12:09	10/26/23 19:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 12:09	10/26/23 19:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 09:34	10/26/23 13:53		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 09:34	10/26/23 13:53		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/26/23 09:34	10/26/23 13:53		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/26/23 09:34	10/26/23 13:53		1.015	0.0447	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 09:34	10/26/23 13:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 09:34	10/26/23 13:53		1.015	0.000229	mg/L	0.000068	0.000203	
* Chromium, Dissolved	10/26/23 09:34	10/26/23 13:53		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 09:34	10/26/23 13:53		1.015	0.00436	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 09:34	10/26/23 13:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 09:34	10/30/23 11:53		5.075	3.07	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/26/23 09:34	10/26/23 13:53		1.015	3.96	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 09:34	10/26/23 13:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 09:34	10/26/23 13:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 16:25		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/14/23 19:13	11/14/23 19:13		1	0.110	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/25/23 14:09	10/25/23 14:09		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 10:38	11/3/23 12:15		1	4.49	SU		2	
* Alkalinity	11/3/23 10:38	11/3/23 12:15		1	56.9	mg CaCO3/L		1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	151	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 10:38	11/3/23 12:15		1	56.8	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/3/23 10:38	11/3/23 12:15		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-50HO

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 10:00  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19565

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/26/23 16:30	10/26/23 16:30		1	1.00	mg/L	1.00	2	J
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:23	10/30/23 14:23		1	5.10	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:13	10/26/23 11:13		3	57.2	mg/L	1.8	6	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/24/23 09:57	10/24/23 09:57			243.63	uS/cm			FA
pH	10/24/23 09:57	10/24/23 09:57			6.05	SU			FA
Temperature	10/24/23 09:57	10/24/23 09:57			19.25	C			FA
Turbidity	10/24/23 09:57	10/24/23 09:57			2.7	NTU			FA
Sulfide	10/24/23 09:57	10/24/23 09:57			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 10:00  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-50HO

**Laboratory ID Number:** BD19565

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD19569	Aluminum, Dissolved	mg/L	-0.0000397	0.0198	0.100	0.106	0.104	0.0939	0.0850 to 0.115	96.5	70.0 to 130	1.90	20.0	
BD19569	Aluminum, Total	mg/L	0.000874	0.0198	0.100	0.182	0.192	0.0989	0.0850 to 0.115	116	70.0 to 130	5.35	20.0	
BD19569	Antimony, Dissolved	mg/L	0.000235	0.00100	0.100	0.0992	0.0955	0.0923	0.0850 to 0.115	99.2	70.0 to 130	3.80	20.0	
BD19569	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.101	0.0982	0.0985	0.0850 to 0.115	101	70.0 to 130	2.81	20.0	
BD19569	Arsenic, Dissolved	mg/L	-0.0000007	0.000200	0.100	0.0973	0.0992	0.0982	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0	
BD19569	Arsenic, Total	mg/L	0.0000181	0.000200	0.100	0.0986	0.0983	0.0965	0.0850 to 0.115	98.6	70.0 to 130	0.305	20.0	
BD19569	Barium, Dissolved	mg/L	0.0000116	0.00100	0.100	0.129	0.125	0.0979	0.0850 to 0.115	101	70.0 to 130	3.15	20.0	
BD19569	Barium, Total	mg/L	-0.0000077	0.00100	0.100	0.133	0.125	0.0987	0.0850 to 0.115	105	70.0 to 130	6.20	20.0	
BD19569	Beryllium, Dissolved	mg/L	0.0000098	0.000880	0.100	0.100	0.0994	0.0965	0.0850 to 0.115	100	70.0 to 130	0.602	20.0	
BD19569	Beryllium, Total	mg/L	0.0000164	0.000880	0.100	0.0979	0.102	0.0918	0.0850 to 0.115	97.9	70.0 to 130	4.10	20.0	
BD19569	Boron, Dissolved	mg/L	0.000149	0.0650	1.00	0.946	0.943	0.924	0.850 to 1.15	94.6	70.0 to 130	0.318	20.0	
BD19569	Boron, Total	mg/L	-0.000007	0.0650	1.00	0.956	0.954	0.934	0.850 to 1.15	95.6	70.0 to 130	0.209	20.0	
BD19569	Cadmium, Dissolved	mg/L	0.0000062	0.000147	0.100	0.0894	0.0890	0.0918	0.0850 to 0.115	89.4	70.0 to 130	0.448	20.0	
BD19569	Cadmium, Total	mg/L	0.0000023	0.000147	0.100	0.0914	0.0939	0.0939	0.0850 to 0.115	91.4	70.0 to 130	2.70	20.0	
BD19569	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	6.78	6.83	4.74	4.25 to 5.75	95.8	70.0 to 130	0.735	20.0	
BD19569	Calcium, Total	mg/L	-0.0244	0.152	5.00	6.74	6.91	4.84	4.25 to 5.75	94.8	70.0 to 130	2.49	20.0	
BD19569	Chloride	mg/L	0.0631	1.00	10.0	14.0	13.5	10.2	9.00 to 11.0	107	80.0 to 120	3.64	20.0	
BD19569	Chromium, Dissolved	mg/L	-0.000153	0.000440	0.100	0.101	0.0995	0.0976	0.0850 to 0.115	101	70.0 to 130	1.50	20.0	
BD19569	Chromium, Total	mg/L	-0.000152	0.000440	0.100	0.0982	0.101	0.0982	0.0850 to 0.115	97.8	70.0 to 130	2.81	20.0	
BD19569	Cobalt, Dissolved	mg/L	-0.0000246	0.000147	0.100	0.103	0.103	0.0990	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BD19569	Cobalt, Total	mg/L	-0.0000240	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	101	70.0 to 130	1.94	20.0	
BD19569	Iron, Dissolved	mg/L	0.00111	0.0176	0.2	0.192	0.192	0.191	0.170 to 0.230	96.0	70.0 to 130	0.00	20.0	
BD19569	Iron, Total	mg/L	-0.000536	0.0176	0.2	0.216	0.215	0.189	0.170 to 0.230	101	70.0 to 130	0.464	20.0	
BD19569	Lead, Dissolved	mg/L	0.0000041	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 10:00  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-50HO

**Laboratory ID Number:** BD19565

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19569	Lead, Total	mg/L	0.0000046	0.000147	0.100	0.103	0.107	0.105	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BD19569	Lithium, Dissolved	mg/L	0.000314	0.0154	0.200	0.192	0.195	0.191	0.170 to 0.230	96.0	70.0 to 130	1.55	20.0
BD19569	Lithium, Total	mg/L	0.000678	0.0154	0.200	0.192	0.199	0.194	0.170 to 0.230	96.0	70.0 to 130	3.58	20.0
BD19569	Magnesium, Dissolved	mg/L	-0.0274	0.0462	5.00	6.13	6.16	4.74	4.25 to 5.75	95.0	70.0 to 130	0.488	20.0
BD19569	Magnesium, Total	mg/L	-0.0162	0.0462	5.00	6.09	6.27	4.84	4.25 to 5.75	94.0	70.0 to 130	2.91	20.0
BD19569	Manganese, Dissolved	mg/L	0.0000124	0.00033	0.100	0.113	0.111	0.102	0.0850 to 0.115	105	70.0 to 130	1.79	20.0
BD19569	Manganese, Total	mg/L	0.0000248	0.00033	0.100	0.110	0.113	0.104	0.0850 to 0.115	102	70.0 to 130	2.69	20.0
BD19565	Mercury, Total by CVAA	mg/L	5.090E-06	0.000500	0.004	0.00372	0.00372	0.00385	0.00340 to 0.00460	93.0	70.0 to 130	0.00	20.0
BD19569	Molybdenum, Dissolved	mg/L	-0.000030	0.0100	0.2	0.198	0.198	0.199	0.170 to 0.230	99.0	70.0 to 130	0.00	20.0
BD19569	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.199	0.200	0.200	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD19569	Potassium, Dissolved	mg/L	0.00100	0.367	10.0	11.4	11.2	9.40	8.50 to 11.5	98.0	70.0 to 130	1.77	20.0
BD19569	Potassium, Total	mg/L	0.00233	0.367	10.0	11.2	11.4	9.72	8.50 to 11.5	96.1	70.0 to 130	1.77	20.0
BD19569	Selenium, Dissolved	mg/L	0.0000637	0.00100	0.100	0.0994	0.100	0.0981	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD19569	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.0968	0.0977	0.0996	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19569	Silicon, Dissolved	mg/L	-0.000183	0.0440	1.00	5.55	5.54	0.955	0.850 to 1.15	98.0	70.0 to 130	0.180	20.0
BD19569	Silicon, Total	mg/L	-0.000764	0.0440	1.00	5.62	5.68	0.967	0.850 to 1.15	99.0	70.0 to 130	1.06	20.0
BD19569	Sodium, Dissolved	mg/L	0.00683	0.0880	5.00	9.02	9.07	4.78	4.25 to 5.75	94.8	70.0 to 130	0.553	20.0
BD19569	Sodium, Total	mg/L	0.00422	0.0880	5.00	9.01	9.32	4.85	4.25 to 5.75	93.4	70.0 to 130	3.38	20.0
BD19568	Sulfate	mg/L	-0.0948	2.0	320	506	518	19.9	18.0 to 22.0	97.8	80.0 to 120	2.34	20.0
BD19569	Thallium, Dissolved	mg/L	-0.0000313	0.000147	0.100	0.102	0.104	0.107	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD19569	Thallium, Total	mg/L	-0.0000244	0.000147	0.100	0.106	0.110	0.108	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BD19565	Total Organic Carbon	mg/L	0.265	1.00	10.0	10.6	10.4	24.9		96.0	80.0 to 120	1.90	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 10:00  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-50HO

**Laboratory ID Number:** BD19565

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19568	Alkalinity	mg CaCO3/L					81.2	51.1	45.0 to 55.0			0.494	10.0
BD19569	Fluoride	mg/L	0.000000	0.0200	2.00	2.11	0.0272	2.07	1.80 to 2.20	104	80.0 to 120	12.5	20.0
BD19569	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.28	0.201	1.87	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD19585	Solids, Dissolved	mg/L	0.0000	25.0			1020	47.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-60HO

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 11:11  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19566

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	10/26/23 12:09	11/1/23 17:32		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/26/23 12:09	11/1/23 17:32		1.015	3.23	mg/L	0.070035	0.406		
* Iron, Total	10/26/23 12:09	11/1/23 17:32		1.015	0.0218	mg/L	0.008120	0.0406	J	
* Lithium, Total	10/26/23 12:09	11/1/23 17:32		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/26/23 12:09	11/1/23 17:32		1.015	0.917	mg/L	0.021315	0.406		
* Molybdenum, Total	10/26/23 12:09	11/1/23 17:32		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/26/23 12:09	11/1/23 17:32		1	9.63	mg/L				
* Silicon, Total	10/26/23 12:09	11/1/23 17:32		1.015	4.50	mg/L	0.02030	0.25375		
* Sodium, Total	10/26/23 12:09	11/1/23 17:32		1.015	5.13	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	10/26/23 09:34	11/1/23 16:38		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	10/26/23 09:34	11/1/23 16:38		1.015	2.96	mg/L	0.070035	0.406		
* Iron, Dissolved	10/26/23 09:34	11/1/23 16:38		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	10/26/23 09:34	11/1/23 16:38		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	10/26/23 09:34	11/1/23 16:38		1.015	0.879	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	10/26/23 09:34	11/1/23 16:38		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	10/26/23 09:34	11/1/23 16:38		1	9.46	mg/L				
* Silicon, Dissolved	10/26/23 09:34	11/1/23 16:38		1.015	4.42	mg/L	0.02030	0.25375		
* Sodium, Dissolved	10/26/23 09:34	11/1/23 16:38		1.015	5.03	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	10/26/23 12:09	10/26/23 19:26		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	10/26/23 12:09	10/26/23 19:26		1.015	0.0937	mg/L	0.009135	0.05075		
* Arsenic, Total	10/26/23 12:09	10/26/23 19:26		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	10/26/23 12:09	10/26/23 19:26		1.015	0.0411	mg/L	0.000508	0.001015		
* Beryllium, Total	10/26/23 12:09	10/26/23 19:26		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/26/23 12:09	10/26/23 19:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/26/23 12:09	10/26/23 19:26		1.015	0.000237	mg/L	0.000203	0.001015	J	
* Cobalt, Total	10/26/23 12:09	10/26/23 19:26		1.015	0.000581	mg/L	0.000068	0.000203		
* Lead, Total	10/26/23 12:09	10/26/23 19:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/26/23 12:09	10/26/23 19:26		1.015	0.00832	mg/L	0.000152	0.001015		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-60HO

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 11:11  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19566

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 12:09	10/26/23 19:26		1.015	1.12	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 12:09	10/26/23 19:26		1.015	0.000926	mg/L	0.000508	0.001015	J
* Thallium, Total	10/26/23 12:09	10/26/23 19:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 09:34	10/26/23 13:57		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 09:34	10/26/23 13:57		1.015	0.0127	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	10/26/23 09:34	10/26/23 13:57		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/26/23 09:34	10/26/23 13:57		1.015	0.0393	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 09:34	10/26/23 13:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 09:34	10/26/23 13:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/26/23 09:34	10/26/23 13:57		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 09:34	10/26/23 13:57		1.015	0.000566	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 09:34	10/26/23 13:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 09:34	10/26/23 13:57		1.015	0.00757	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/26/23 09:34	10/26/23 13:57		1.015	1.09	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 09:34	10/26/23 13:57		1.015	0.00100	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	10/26/23 09:34	10/26/23 13:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 16:48		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/14/23 19:37	11/14/23 19:37		1	0.0269	mg/L	0.02	0.04	J
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/25/23 14:11	10/25/23 14:11		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 10:38	11/3/23 12:15		1	4.22	SU		2	
* Alkalinity	11/3/23 10:38	11/3/23 12:15		1	10.0	mg CaCO3/L		1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	42.7	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 10:38	11/3/23 12:15		1	10.0	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/3/23 10:38	11/3/23 12:15		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-60HO

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 11:11  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19566

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/26/23 17:40	10/26/23 17:40		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:24	10/30/23 14:24		1	3.99	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:07	10/26/23 11:07		1	7.47	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/24/23 11:08	10/24/23 11:08			54.58	uS/cm			FA
pH	10/24/23 11:08	10/24/23 11:08			5.14	SU			FA
Temperature	10/24/23 11:08	10/24/23 11:08			18.76	C			FA
Turbidity	10/24/23 11:08	10/24/23 11:08			4.65	NTU			FA
Sulfide	10/24/23 11:08	10/24/23 11:08			0	mg/L			FA

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 10/24/23 11:11

**Customer ID:**

**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-60HO

**Laboratory ID Number:** BD19566

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec		
BD19569	Aluminum, Dissolved	mg/L	-0.0000397	0.0198	0.100	0.106	0.104	0.0939	0.0850 to 0.115	96.5	70.0 to 130	1.90	20.0	
BD19569	Aluminum, Total	mg/L	0.000874	0.0198	0.100	0.182	0.192	0.0989	0.0850 to 0.115	116	70.0 to 130	5.35	20.0	
BD19569	Antimony, Dissolved	mg/L	0.000235	0.00100	0.100	0.0992	0.0955	0.0923	0.0850 to 0.115	99.2	70.0 to 130	3.80	20.0	
BD19569	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.101	0.0982	0.0985	0.0850 to 0.115	101	70.0 to 130	2.81	20.0	
BD19569	Arsenic, Dissolved	mg/L	-0.0000007	0.000200	0.100	0.0973	0.0992	0.0982	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0	
BD19569	Arsenic, Total	mg/L	0.0000181	0.000200	0.100	0.0986	0.0983	0.0965	0.0850 to 0.115	98.6	70.0 to 130	0.305	20.0	
BD19569	Barium, Dissolved	mg/L	0.0000116	0.00100	0.100	0.129	0.125	0.0979	0.0850 to 0.115	101	70.0 to 130	3.15	20.0	
BD19569	Barium, Total	mg/L	-0.0000077	0.00100	0.100	0.133	0.125	0.0987	0.0850 to 0.115	105	70.0 to 130	6.20	20.0	
BD19569	Beryllium, Dissolved	mg/L	0.0000098	0.000880	0.100	0.100	0.0994	0.0965	0.0850 to 0.115	100	70.0 to 130	0.602	20.0	
BD19569	Beryllium, Total	mg/L	0.0000164	0.000880	0.100	0.0979	0.102	0.0918	0.0850 to 0.115	97.9	70.0 to 130	4.10	20.0	
BD19569	Boron, Dissolved	mg/L	0.000149	0.0650	1.00	0.946	0.943	0.924	0.850 to 1.15	94.6	70.0 to 130	0.318	20.0	
BD19569	Boron, Total	mg/L	-0.000007	0.0650	1.00	0.956	0.954	0.934	0.850 to 1.15	95.6	70.0 to 130	0.209	20.0	
BD19569	Cadmium, Dissolved	mg/L	0.0000062	0.000147	0.100	0.0894	0.0890	0.0918	0.0850 to 0.115	89.4	70.0 to 130	0.448	20.0	
BD19569	Cadmium, Total	mg/L	0.0000023	0.000147	0.100	0.0914	0.0939	0.0939	0.0850 to 0.115	91.4	70.0 to 130	2.70	20.0	
BD19569	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	6.78	6.83	4.74	4.25 to 5.75	95.8	70.0 to 130	0.735	20.0	
BD19569	Calcium, Total	mg/L	-0.0244	0.152	5.00	6.74	6.91	4.84	4.25 to 5.75	94.8	70.0 to 130	2.49	20.0	
BD19569	Chloride	mg/L	0.0631	1.00	10.0	14.0	13.5	10.2	9.00 to 11.0	107	80.0 to 120	3.64	20.0	
BD19569	Chromium, Dissolved	mg/L	-0.000153	0.000440	0.100	0.101	0.0995	0.0976	0.0850 to 0.115	101	70.0 to 130	1.50	20.0	
BD19569	Chromium, Total	mg/L	-0.000152	0.000440	0.100	0.0982	0.101	0.0982	0.0850 to 0.115	97.8	70.0 to 130	2.81	20.0	
BD19569	Cobalt, Dissolved	mg/L	-0.0000246	0.000147	0.100	0.103	0.103	0.0990	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BD19569	Cobalt, Total	mg/L	-0.0000240	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	101	70.0 to 130	1.94	20.0	
BD19569	Iron, Dissolved	mg/L	0.00111	0.0176	0.2	0.192	0.192	0.191	0.170 to 0.230	96.0	70.0 to 130	0.00	20.0	
BD19569	Iron, Total	mg/L	-0.000536	0.0176	0.2	0.216	0.215	0.189	0.170 to 0.230	101	70.0 to 130	0.464	20.0	
BD19569	Lead, Dissolved	mg/L	0.0000041	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP

**Sample Date:** 10/24/23 11:11

**Customer ID:**

**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-60HO

**Laboratory ID Number:** BD19566

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19569	Lead, Total	mg/L	0.0000046	0.000147	0.100	0.103	0.107	0.105	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BD19569	Lithium, Dissolved	mg/L	0.000314	0.0154	0.200	0.192	0.195	0.191	0.170 to 0.230	96.0	70.0 to 130	1.55	20.0
BD19569	Lithium, Total	mg/L	0.000678	0.0154	0.200	0.192	0.199	0.194	0.170 to 0.230	96.0	70.0 to 130	3.58	20.0
BD19569	Magnesium, Dissolved	mg/L	-0.0274	0.0462	5.00	6.13	6.16	4.74	4.25 to 5.75	95.0	70.0 to 130	0.488	20.0
BD19569	Magnesium, Total	mg/L	-0.0162	0.0462	5.00	6.09	6.27	4.84	4.25 to 5.75	94.0	70.0 to 130	2.91	20.0
BD19569	Manganese, Dissolved	mg/L	0.0000124	0.00033	0.100	0.113	0.111	0.102	0.0850 to 0.115	105	70.0 to 130	1.79	20.0
BD19569	Manganese, Total	mg/L	0.0000248	0.00033	0.100	0.110	0.113	0.104	0.0850 to 0.115	102	70.0 to 130	2.69	20.0
BD19570	Mercury, Total by CVAA	mg/L	7.130E-06	0.000500	0.004	0.00374	0.00379	0.00378	0.00340 to 0.00460	93.5	70.0 to 130	1.33	20.0
BD19569	Molybdenum, Dissolved	mg/L	-0.000030	0.0100	0.2	0.198	0.198	0.199	0.170 to 0.230	99.0	70.0 to 130	0.00	20.0
BD19569	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.199	0.200	0.200	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD19569	Potassium, Dissolved	mg/L	0.00100	0.367	10.0	11.4	11.2	9.40	8.50 to 11.5	98.0	70.0 to 130	1.77	20.0
BD19569	Potassium, Total	mg/L	0.00233	0.367	10.0	11.2	11.4	9.72	8.50 to 11.5	96.1	70.0 to 130	1.77	20.0
BD19569	Selenium, Dissolved	mg/L	0.0000637	0.00100	0.100	0.0994	0.100	0.0981	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD19569	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.0968	0.0977	0.0996	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19569	Silicon, Dissolved	mg/L	-0.000183	0.0440	1.00	5.55	5.54	0.955	0.850 to 1.15	98.0	70.0 to 130	0.180	20.0
BD19569	Silicon, Total	mg/L	-0.000764	0.0440	1.00	5.62	5.68	0.967	0.850 to 1.15	99.0	70.0 to 130	1.06	20.0
BD19569	Sodium, Dissolved	mg/L	0.00683	0.0880	5.00	9.02	9.07	4.78	4.25 to 5.75	94.8	70.0 to 130	0.553	20.0
BD19569	Sodium, Total	mg/L	0.00422	0.0880	5.00	9.01	9.32	4.85	4.25 to 5.75	93.4	70.0 to 130	3.38	20.0
BD19568	Sulfate	mg/L	-0.0948	2.0	320	506	518	19.9	18.0 to 22.0	97.8	80.0 to 120	2.34	20.0
BD19569	Thallium, Dissolved	mg/L	-0.0000313	0.000147	0.100	0.102	0.104	0.107	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD19569	Thallium, Total	mg/L	-0.0000244	0.000147	0.100	0.106	0.110	0.108	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BD19569	Total Organic Carbon	mg/L	0.274	1.00	10.0	10.9	10.6	24.7		109	80.0 to 120	2.79	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 11:11  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-60HO

**Laboratory ID Number:** BD19566

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19568	Alkalinity	mg CaCO3/L					81.2	51.1	45.0 to 55.0			0.494	10.0
BD19569	Fluoride	mg/L	0.000000	0.0200	2.00	2.11	0.0272	2.07	1.80 to 2.20	104	80.0 to 120	12.5	20.0
BD19569	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.28	0.201	1.87	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD19585	Solids, Dissolved	mg/L	0.0000	25.0			1020	47.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-61HO

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 12:05  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19567

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	10/26/23 12:09	11/1/23 17:35		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/26/23 12:09	11/1/23 17:35		1.015	14.3	mg/L	0.070035	0.406		
* Iron, Total	10/26/23 12:09	11/1/23 17:35		1.015	0.0349	mg/L	0.008120	0.0406	J	
* Lithium, Total	10/26/23 12:09	11/1/23 17:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/26/23 12:09	11/1/23 17:35		1.015	1.20	mg/L	0.021315	0.406		
* Molybdenum, Total	10/26/23 12:09	11/1/23 17:35		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/26/23 12:09	11/1/23 17:35		1	7.47	mg/L				
* Silicon, Total	10/26/23 12:09	11/1/23 17:35		1.015	3.49	mg/L	0.02030	0.25375		
* Sodium, Total	10/26/23 12:09	11/1/23 17:35		1.015	1.40	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Dissolved	10/26/23 09:34	11/1/23 16:41		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	10/26/23 09:34	11/1/23 16:41		1.015	15.0	mg/L	0.070035	0.406		
* Iron, Dissolved	10/26/23 09:34	11/1/23 16:41		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	10/26/23 09:34	11/1/23 16:41		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	10/26/23 09:34	11/1/23 16:41		1.015	1.20	mg/L	0.021315	0.406		
* Molybdenum, Dissolved	10/26/23 09:34	11/1/23 16:41		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Dissolved (calc.)	10/26/23 09:34	11/1/23 16:41		1	7.32	mg/L				
* Silicon, Dissolved	10/26/23 09:34	11/1/23 16:41		1.015	3.42	mg/L	0.02030	0.25375		
* Sodium, Dissolved	10/26/23 09:34	11/1/23 16:41		1.015	1.43	mg/L	0.04060	0.406		
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	10/26/23 12:09	10/26/23 19:30		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	10/26/23 12:09	10/26/23 19:30		1.015	0.115	mg/L	0.009135	0.05075		
* Arsenic, Total	10/26/23 12:09	10/26/23 19:30		1.015	0.000237	mg/L	0.000112	0.000203		
* Barium, Total	10/26/23 12:09	10/26/23 19:30		1.015	0.0438	mg/L	0.000508	0.001015		
* Beryllium, Total	10/26/23 12:09	10/26/23 19:30		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/26/23 12:09	10/26/23 19:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/26/23 12:09	10/26/23 19:30		1.015	0.000510	mg/L	0.000203	0.001015	J	
* Cobalt, Total	10/26/23 12:09	10/26/23 19:30		1.015	0.000375	mg/L	0.000068	0.000203		
* Lead, Total	10/26/23 12:09	10/26/23 19:30		1.015	0.0000849	mg/L	0.000068	0.000203	J	
* Manganese, Total	10/26/23 12:09	10/26/23 19:30		1.015	0.00893	mg/L	0.000152	0.001015		

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-61HO

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 12:05  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19567

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 12:09	10/26/23 19:30		1.015	1.36	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 12:09	10/26/23 19:30		1.015	0.000594	mg/L	0.000508	0.001015	J
* Thallium, Total	10/26/23 12:09	10/26/23 19:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 09:34	10/26/23 14:01		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 09:34	10/26/23 14:01		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/26/23 09:34	10/26/23 14:01		1.015	0.000206	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/26/23 09:34	10/26/23 14:01		1.015	0.0435	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 09:34	10/26/23 14:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 09:34	10/26/23 14:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/26/23 09:34	10/26/23 14:01		1.015	0.000220	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	10/26/23 09:34	10/26/23 14:01		1.015	0.000316	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 09:34	10/26/23 14:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 09:34	10/26/23 14:01		1.015	0.00714	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/26/23 09:34	10/26/23 14:01		1.015	1.33	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 09:34	10/26/23 14:01		1.015	0.000626	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	10/26/23 09:34	10/26/23 14:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 16:50		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/14/23 20:47	11/14/23 20:47		1	0.0656	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/25/23 14:13	10/25/23 14:13		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 10:38	11/3/23 12:15		1	4.43	SU		2	
* Alkalinity	11/3/23 10:38	11/3/23 12:15		1	37.4	mg CaCO3/L		1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	60.7	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 10:38	11/3/23 12:15		1	37.4	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/3/23 10:38	11/3/23 12:15		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-61HO

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 12:05  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19567

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/26/23 17:54	10/26/23 17:54		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:25	10/30/23 14:25		1	2.31	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:08	10/26/23 11:08		1	8.55	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/24/23 12:02	10/24/23 12:02			97.08	uS/cm			FA
pH	10/24/23 12:02	10/24/23 12:02			5.98	SU			FA
Temperature	10/24/23 12:02	10/24/23 12:02			19.65	C			FA
Turbidity	10/24/23 12:02	10/24/23 12:02			7.98	NTU			FA
Sulfide	10/24/23 12:02	10/24/23 12:02			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 12:05  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-61HO

**Laboratory ID Number:** BD19567

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19569	Aluminum, Dissolved	mg/L	-0.0000397	0.0198	0.100	0.106	0.104	0.0939	0.0850 to 0.115	96.5	70.0 to 130	1.90	20.0
BD19569	Aluminum, Total	mg/L	0.000874	0.0198	0.100	0.182	0.192	0.0989	0.0850 to 0.115	116	70.0 to 130	5.35	20.0
BD19569	Antimony, Dissolved	mg/L	0.000235	0.00100	0.100	0.0992	0.0955	0.0923	0.0850 to 0.115	99.2	70.0 to 130	3.80	20.0
BD19569	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.101	0.0982	0.0985	0.0850 to 0.115	101	70.0 to 130	2.81	20.0
BD19569	Arsenic, Dissolved	mg/L	-0.0000007	0.000200	0.100	0.0973	0.0992	0.0982	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0
BD19569	Arsenic, Total	mg/L	0.0000181	0.000200	0.100	0.0986	0.0983	0.0965	0.0850 to 0.115	98.6	70.0 to 130	0.305	20.0
BD19569	Barium, Dissolved	mg/L	0.0000116	0.00100	0.100	0.129	0.125	0.0979	0.0850 to 0.115	101	70.0 to 130	3.15	20.0
BD19569	Barium, Total	mg/L	-0.0000077	0.00100	0.100	0.133	0.125	0.0987	0.0850 to 0.115	105	70.0 to 130	6.20	20.0
BD19569	Beryllium, Dissolved	mg/L	0.0000098	0.000880	0.100	0.100	0.0994	0.0965	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BD19569	Beryllium, Total	mg/L	0.0000164	0.000880	0.100	0.0979	0.102	0.0918	0.0850 to 0.115	97.9	70.0 to 130	4.10	20.0
BD19569	Boron, Dissolved	mg/L	0.000149	0.0650	1.00	0.946	0.943	0.924	0.850 to 1.15	94.6	70.0 to 130	0.318	20.0
BD19569	Boron, Total	mg/L	-0.000007	0.0650	1.00	0.956	0.954	0.934	0.850 to 1.15	95.6	70.0 to 130	0.209	20.0
BD19569	Cadmium, Dissolved	mg/L	0.0000062	0.000147	0.100	0.0894	0.0890	0.0918	0.0850 to 0.115	89.4	70.0 to 130	0.448	20.0
BD19569	Cadmium, Total	mg/L	0.0000023	0.000147	0.100	0.0914	0.0939	0.0939	0.0850 to 0.115	91.4	70.0 to 130	2.70	20.0
BD19569	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	6.78	6.83	4.74	4.25 to 5.75	95.8	70.0 to 130	0.735	20.0
BD19569	Calcium, Total	mg/L	-0.0244	0.152	5.00	6.74	6.91	4.84	4.25 to 5.75	94.8	70.0 to 130	2.49	20.0
BD19569	Chloride	mg/L	0.0631	1.00	10.0	14.0	13.5	10.2	9.00 to 11.0	107	80.0 to 120	3.64	20.0
BD19569	Chromium, Dissolved	mg/L	-0.000153	0.000440	0.100	0.101	0.0995	0.0976	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BD19569	Chromium, Total	mg/L	-0.000152	0.000440	0.100	0.0982	0.101	0.0982	0.0850 to 0.115	97.8	70.0 to 130	2.81	20.0
BD19569	Cobalt, Dissolved	mg/L	-0.0000246	0.000147	0.100	0.103	0.103	0.0990	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19569	Cobalt, Total	mg/L	-0.0000240	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BD19569	Iron, Dissolved	mg/L	0.00111	0.0176	0.2	0.192	0.192	0.191	0.170 to 0.230	96.0	70.0 to 130	0.00	20.0
BD19569	Iron, Total	mg/L	-0.000536	0.0176	0.2	0.216	0.215	0.189	0.170 to 0.230	101	70.0 to 130	0.464	20.0
BD19569	Lead, Dissolved	mg/L	0.0000041	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 12:05  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-61HO

**Laboratory ID Number:** BD19567

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19569	Lead, Total	mg/L	0.0000046	0.000147	0.100	0.103	0.107	0.105	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BD19569	Lithium, Dissolved	mg/L	0.000314	0.0154	0.200	0.192	0.195	0.191	0.170 to 0.230	96.0	70.0 to 130	1.55	20.0
BD19569	Lithium, Total	mg/L	0.000678	0.0154	0.200	0.192	0.199	0.194	0.170 to 0.230	96.0	70.0 to 130	3.58	20.0
BD19569	Magnesium, Dissolved	mg/L	-0.0274	0.0462	5.00	6.13	6.16	4.74	4.25 to 5.75	95.0	70.0 to 130	0.488	20.0
BD19569	Magnesium, Total	mg/L	-0.0162	0.0462	5.00	6.09	6.27	4.84	4.25 to 5.75	94.0	70.0 to 130	2.91	20.0
BD19569	Manganese, Dissolved	mg/L	0.0000124	0.00033	0.100	0.113	0.111	0.102	0.0850 to 0.115	105	70.0 to 130	1.79	20.0
BD19569	Manganese, Total	mg/L	0.0000248	0.00033	0.100	0.110	0.113	0.104	0.0850 to 0.115	102	70.0 to 130	2.69	20.0
BD19570	Mercury, Total by CVAA	mg/L	7.130E-06	0.000500	0.004	0.00374	0.00379	0.00378	0.00340 to 0.00460	93.5	70.0 to 130	1.33	20.0
BD19569	Molybdenum, Dissolved	mg/L	-0.000030	0.0100	0.2	0.198	0.198	0.199	0.170 to 0.230	99.0	70.0 to 130	0.00	20.0
BD19569	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.199	0.200	0.200	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD19569	Potassium, Dissolved	mg/L	0.00100	0.367	10.0	11.4	11.2	9.40	8.50 to 11.5	98.0	70.0 to 130	1.77	20.0
BD19569	Potassium, Total	mg/L	0.00233	0.367	10.0	11.2	11.4	9.72	8.50 to 11.5	96.1	70.0 to 130	1.77	20.0
BD19569	Selenium, Dissolved	mg/L	0.0000637	0.00100	0.100	0.0994	0.100	0.0981	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD19569	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.0968	0.0977	0.0996	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19569	Silicon, Dissolved	mg/L	-0.000183	0.0440	1.00	5.55	5.54	0.955	0.850 to 1.15	98.0	70.0 to 130	0.180	20.0
BD19569	Silicon, Total	mg/L	-0.000764	0.0440	1.00	5.62	5.68	0.967	0.850 to 1.15	99.0	70.0 to 130	1.06	20.0
BD19569	Sodium, Dissolved	mg/L	0.00683	0.0880	5.00	9.02	9.07	4.78	4.25 to 5.75	94.8	70.0 to 130	0.553	20.0
BD19569	Sodium, Total	mg/L	0.00422	0.0880	5.00	9.01	9.32	4.85	4.25 to 5.75	93.4	70.0 to 130	3.38	20.0
BD19568	Sulfate	mg/L	-0.0948	2.0	320	506	518	19.9	18.0 to 22.0	97.8	80.0 to 120	2.34	20.0
BD19569	Thallium, Dissolved	mg/L	-0.0000313	0.000147	0.100	0.102	0.104	0.107	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD19569	Thallium, Total	mg/L	-0.0000244	0.000147	0.100	0.106	0.110	0.108	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BD19569	Total Organic Carbon	mg/L	0.274	1.00	10.0	10.9	10.6	24.7		109	80.0 to 120	2.79	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 12:05  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-61HO

**Laboratory ID Number:** BD19567

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19568	Alkalinity	mg CaCO3/L					81.2	51.1	45.0 to 55.0			0.494	10.0
BD19569	Fluoride	mg/L	0.000000	0.0200	2.00	2.11	0.0272	2.07	1.80 to 2.20	104	80.0 to 120	12.5	20.0
BD19569	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.28	0.201	1.87	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD19585	Solids, Dissolved	mg/L	0.0000	25.0			1020	47.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-59HO

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 12:50  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19568

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 12:09	11/1/23 17:39		1.015	0.192	mg/L	0.030000	0.1015	
* Calcium, Total	10/26/23 12:09	11/1/23 17:57		10.15	78.1	mg/L	0.70035	4.06	
* Iron, Total	10/26/23 12:09	11/1/23 17:39		1.015	0.456	mg/L	0.008120	0.0406	
* Lithium, Total	10/26/23 12:09	11/1/23 17:39		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/26/23 12:09	11/1/23 17:39		1.015	14.3	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 12:09	11/1/23 17:39		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 12:09	11/1/23 17:39		1	7.40	mg/L			
* Silicon, Total	10/26/23 12:09	11/1/23 17:39		1.015	3.46	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 12:09	11/1/23 17:39		1.015	23.0	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/26/23 09:34	11/1/23 16:44		1.015	0.189	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/26/23 09:34	11/1/23 16:48		10.15	92.1	mg/L	0.70035	4.06	
* Iron, Dissolved	10/26/23 09:34	11/1/23 16:44		1.015	0.113	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/26/23 09:34	11/1/23 16:44		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	10/26/23 09:34	11/1/23 16:44		1.015	13.9	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 09:34	11/1/23 16:44		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/26/23 09:34	11/1/23 16:44		1	7.25	mg/L			
* Silicon, Dissolved	10/26/23 09:34	11/1/23 16:44		1.015	3.39	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 09:34	11/1/23 16:44		1.015	22.5	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 12:09	10/26/23 19:34		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 12:09	10/26/23 19:34		1.015	0.0377	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/26/23 12:09	10/26/23 19:34		1.015	0.000697	mg/L	0.000112	0.000203	
* Barium, Total	10/26/23 12:09	10/26/23 19:34		1.015	0.0529	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 12:09	10/26/23 19:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 12:09	10/26/23 19:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/26/23 12:09	10/26/23 19:34		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/26/23 12:09	10/26/23 19:34		1.015	0.0199	mg/L	0.000068	0.000203	
* Lead, Total	10/26/23 12:09	10/26/23 19:34		1.015	0.0000828	mg/L	0.000068	0.000203	J
* Manganese, Total	10/26/23 12:09	10/30/23 12:07		10.15	10.7	mg/L	0.001522	0.01015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-59HO

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 12:50  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19568

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 12:09	10/26/23 19:34		1.015	3.72	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 12:09	10/26/23 19:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 12:09	10/26/23 19:34		1.015	0.0000968	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 09:34	10/26/23 14:04		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 09:34	10/26/23 14:04		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/26/23 09:34	10/26/23 14:04		1.015	0.000175	mg/L	0.000112	0.000203	J
* Barium, Dissolved	10/26/23 09:34	10/26/23 14:04		1.015	0.0520	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 09:34	10/26/23 14:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 09:34	10/26/23 14:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/26/23 09:34	10/26/23 14:04		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/26/23 09:34	10/26/23 14:04		1.015	0.0194	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 09:34	10/26/23 14:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 09:34	10/30/23 11:56		10.15	10.6	mg/L	0.001522	0.01015	
* Potassium, Dissolved	10/26/23 09:34	10/26/23 14:04		1.015	3.65	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 09:34	10/26/23 14:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 09:34	10/26/23 14:04		1.015	0.0000983	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 16:53		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/14/23 21:11	11/14/23 21:11		1	0.0762	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/25/23 14:15	10/25/23 14:15		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 10:38	11/3/23 12:15		1	4.49	SU		2	
* Alkalinity	11/3/23 10:38	11/3/23 12:15		1	80.8	mg CaCO3/L		1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	389	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 10:38	11/3/23 12:15		1	80.8	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/3/23 10:38	11/3/23 12:15		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-59HO

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 12:50  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19568

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/26/23 18:11	10/26/23 18:11		1	1.53	mg/L	1.00	2	J
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:27	10/30/23 14:27		1	10.2	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:09	10/26/23 11:09		16	193	mg/L	9.6	32	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/24/23 12:47	10/24/23 12:47			558.36	uS/cm			FA
pH	10/24/23 12:47	10/24/23 12:47			6.01	SU			FA
Temperature	10/24/23 12:47	10/24/23 12:47			19.24	C			FA
Turbidity	10/24/23 12:47	10/24/23 12:47			5.3	NTU			FA
Sulfide	10/24/23 12:47	10/24/23 12:47			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 12:50  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-59HO

**Laboratory ID Number:** BD19568

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD19569	Aluminum, Dissolved	mg/L	-0.0000397	0.0198	0.100	0.106	0.104	0.0939	0.0850 to 0.115	96.5	70.0 to 130	1.90	20.0	
BD19569	Aluminum, Total	mg/L	0.000874	0.0198	0.100	0.182	0.192	0.0989	0.0850 to 0.115	116	70.0 to 130	5.35	20.0	
BD19569	Antimony, Dissolved	mg/L	0.000235	0.00100	0.100	0.0992	0.0955	0.0923	0.0850 to 0.115	99.2	70.0 to 130	3.80	20.0	
BD19569	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.101	0.0982	0.0985	0.0850 to 0.115	101	70.0 to 130	2.81	20.0	
BD19569	Arsenic, Dissolved	mg/L	-0.0000007	0.000200	0.100	0.0973	0.0992	0.0982	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0	
BD19569	Arsenic, Total	mg/L	0.0000181	0.000200	0.100	0.0986	0.0983	0.0965	0.0850 to 0.115	98.6	70.0 to 130	0.305	20.0	
BD19569	Barium, Dissolved	mg/L	0.0000116	0.00100	0.100	0.129	0.125	0.0979	0.0850 to 0.115	101	70.0 to 130	3.15	20.0	
BD19569	Barium, Total	mg/L	-0.0000077	0.00100	0.100	0.133	0.125	0.0987	0.0850 to 0.115	105	70.0 to 130	6.20	20.0	
BD19569	Beryllium, Dissolved	mg/L	0.0000098	0.000880	0.100	0.100	0.0994	0.0965	0.0850 to 0.115	100	70.0 to 130	0.602	20.0	
BD19569	Beryllium, Total	mg/L	0.0000164	0.000880	0.100	0.0979	0.102	0.0918	0.0850 to 0.115	97.9	70.0 to 130	4.10	20.0	
BD19569	Boron, Dissolved	mg/L	0.000149	0.0650	1.00	0.946	0.943	0.924	0.850 to 1.15	94.6	70.0 to 130	0.318	20.0	
BD19569	Boron, Total	mg/L	-0.000007	0.0650	1.00	0.956	0.954	0.934	0.850 to 1.15	95.6	70.0 to 130	0.209	20.0	
BD19569	Cadmium, Dissolved	mg/L	0.0000062	0.000147	0.100	0.0894	0.0890	0.0918	0.0850 to 0.115	89.4	70.0 to 130	0.448	20.0	
BD19569	Cadmium, Total	mg/L	0.0000023	0.000147	0.100	0.0914	0.0939	0.0939	0.0850 to 0.115	91.4	70.0 to 130	2.70	20.0	
BD19569	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	6.78	6.83	4.74	4.25 to 5.75	95.8	70.0 to 130	0.735	20.0	
BD19569	Calcium, Total	mg/L	-0.0244	0.152	5.00	6.74	6.91	4.84	4.25 to 5.75	94.8	70.0 to 130	2.49	20.0	
BD19569	Chloride	mg/L	0.0631	1.00	10.0	14.0	13.5	10.2	9.00 to 11.0	107	80.0 to 120	3.64	20.0	
BD19569	Chromium, Dissolved	mg/L	-0.000153	0.000440	0.100	0.101	0.0995	0.0976	0.0850 to 0.115	101	70.0 to 130	1.50	20.0	
BD19569	Chromium, Total	mg/L	-0.000152	0.000440	0.100	0.0982	0.101	0.0982	0.0850 to 0.115	97.8	70.0 to 130	2.81	20.0	
BD19569	Cobalt, Dissolved	mg/L	-0.0000246	0.000147	0.100	0.103	0.103	0.0990	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BD19569	Cobalt, Total	mg/L	-0.0000240	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	101	70.0 to 130	1.94	20.0	
BD19569	Iron, Dissolved	mg/L	0.00111	0.0176	0.2	0.192	0.192	0.191	0.170 to 0.230	96.0	70.0 to 130	0.00	20.0	
BD19569	Iron, Total	mg/L	-0.000536	0.0176	0.2	0.216	0.215	0.189	0.170 to 0.230	101	70.0 to 130	0.464	20.0	
BD19569	Lead, Dissolved	mg/L	0.0000041	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 12:50  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-59HO

**Laboratory ID Number:** BD19568

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19569	Lead, Total	mg/L	0.0000046	0.000147	0.100	0.103	0.107	0.105	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BD19569	Lithium, Dissolved	mg/L	0.000314	0.0154	0.200	0.192	0.195	0.191	0.170 to 0.230	96.0	70.0 to 130	1.55	20.0
BD19569	Lithium, Total	mg/L	0.000678	0.0154	0.200	0.192	0.199	0.194	0.170 to 0.230	96.0	70.0 to 130	3.58	20.0
BD19569	Magnesium, Dissolved	mg/L	-0.0274	0.0462	5.00	6.13	6.16	4.74	4.25 to 5.75	95.0	70.0 to 130	0.488	20.0
BD19569	Magnesium, Total	mg/L	-0.0162	0.0462	5.00	6.09	6.27	4.84	4.25 to 5.75	94.0	70.0 to 130	2.91	20.0
BD19569	Manganese, Dissolved	mg/L	0.0000124	0.00033	0.100	0.113	0.111	0.102	0.0850 to 0.115	105	70.0 to 130	1.79	20.0
BD19569	Manganese, Total	mg/L	0.0000248	0.00033	0.100	0.110	0.113	0.104	0.0850 to 0.115	102	70.0 to 130	2.69	20.0
BD19570	Mercury, Total by CVAA	mg/L	7.130E-06	0.000500	0.004	0.00374	0.00379	0.00378	0.00340 to 0.00460	93.5	70.0 to 130	1.33	20.0
BD19569	Molybdenum, Dissolved	mg/L	-0.000030	0.0100	0.2	0.198	0.198	0.199	0.170 to 0.230	99.0	70.0 to 130	0.00	20.0
BD19569	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.199	0.200	0.200	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD19569	Potassium, Dissolved	mg/L	0.00100	0.367	10.0	11.4	11.2	9.40	8.50 to 11.5	98.0	70.0 to 130	1.77	20.0
BD19569	Potassium, Total	mg/L	0.00233	0.367	10.0	11.2	11.4	9.72	8.50 to 11.5	96.1	70.0 to 130	1.77	20.0
BD19569	Selenium, Dissolved	mg/L	0.0000637	0.00100	0.100	0.0994	0.100	0.0981	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD19569	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.0968	0.0977	0.0996	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19569	Silicon, Dissolved	mg/L	-0.000183	0.0440	1.00	5.55	5.54	0.955	0.850 to 1.15	98.0	70.0 to 130	0.180	20.0
BD19569	Silicon, Total	mg/L	-0.000764	0.0440	1.00	5.62	5.68	0.967	0.850 to 1.15	99.0	70.0 to 130	1.06	20.0
BD19569	Sodium, Dissolved	mg/L	0.00683	0.0880	5.00	9.02	9.07	4.78	4.25 to 5.75	94.8	70.0 to 130	0.553	20.0
BD19569	Sodium, Total	mg/L	0.00422	0.0880	5.00	9.01	9.32	4.85	4.25 to 5.75	93.4	70.0 to 130	3.38	20.0
BD19568	Sulfate	mg/L	-0.0948	2.0	320	506	518	19.9	18.0 to 22.0	97.8	80.0 to 120	2.34	20.0
BD19569	Thallium, Dissolved	mg/L	-0.0000313	0.000147	0.100	0.102	0.104	0.107	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD19569	Thallium, Total	mg/L	-0.0000244	0.000147	0.100	0.106	0.110	0.108	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BD19569	Total Organic Carbon	mg/L	0.274	1.00	10.0	10.9	10.6	24.7		109	80.0 to 120	2.79	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 12:50  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-59HO

**Laboratory ID Number:** BD19568

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19568	Alkalinity	mg CaCO3/L					81.2	51.1	45.0 to 55.0			0.494	10.0
BD19569	Fluoride	mg/L	0.000000	0.0200	2.00	2.11	0.0272	2.07	1.80 to 2.20	104	80.0 to 120	12.5	20.0
BD19569	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.28	0.201	1.87	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD19585	Solids, Dissolved	mg/L	0.0000	25.0			1020	47.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-55HO

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 14:37  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19569

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/26/23 12:09	11/1/23 17:42		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/26/23 12:09	11/1/23 17:42		1.015	2.00	mg/L	0.070035	0.406	
* Iron, Total	10/26/23 12:09	11/1/23 17:42		1.015	0.0144	mg/L	0.008120	0.0406	J
* Lithium, Total	10/26/23 12:09	11/1/23 17:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/26/23 12:09	11/1/23 17:42		1.015	1.39	mg/L	0.021315	0.406	
* Molybdenum, Total	10/26/23 12:09	11/1/23 17:42		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/26/23 12:09	11/1/23 17:42		1	9.91	mg/L			
* Silicon, Total	10/26/23 12:09	11/1/23 17:42		1.015	4.63	mg/L	0.02030	0.25375	
* Sodium, Total	10/26/23 12:09	11/1/23 17:42		1.015	4.34	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/26/23 09:34	11/1/23 16:51		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	10/26/23 09:34	11/1/23 16:51		1.015	1.99	mg/L	0.070035	0.406	
* Iron, Dissolved	10/26/23 09:34	11/1/23 16:51		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	10/26/23 09:34	11/1/23 16:51		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	10/26/23 09:34	11/1/23 16:51		1.015	1.38	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/26/23 09:34	11/1/23 16:51		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/26/23 09:34	11/1/23 16:51		1	9.78	mg/L			
* Silicon, Dissolved	10/26/23 09:34	11/1/23 16:51		1.015	4.57	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/26/23 09:34	11/1/23 16:51		1.015	4.28	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/26/23 12:09	10/26/23 19:37		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/26/23 12:09	10/26/23 19:37		1.015	0.0660	mg/L	0.009135	0.05075	
* Arsenic, Total	10/26/23 12:09	10/26/23 19:37		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	10/26/23 12:09	10/26/23 19:37		1.015	0.0282	mg/L	0.000508	0.001015	
* Beryllium, Total	10/26/23 12:09	10/26/23 19:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/26/23 12:09	10/26/23 19:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/26/23 12:09	10/26/23 19:37		1.015	0.000382	mg/L	0.000203	0.001015	J
* Cobalt, Total	10/26/23 12:09	10/26/23 19:37		1.015	0.000696	mg/L	0.000068	0.000203	
* Lead, Total	10/26/23 12:09	10/26/23 19:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/26/23 12:09	10/26/23 19:37		1.015	0.00800	mg/L	0.000152	0.001015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-55HO

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 14:37  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19569

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/26/23 12:09	10/26/23 19:37		1.015	1.59	mg/L	0.169505	0.5075	
* Selenium, Total	10/26/23 12:09	10/26/23 19:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/26/23 12:09	10/26/23 19:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/26/23 09:34	10/26/23 14:08		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/26/23 09:34	10/26/23 14:08		1.015	0.00946	mg/L	0.009135	0.05075	J
* Arsenic, Dissolved	10/26/23 09:34	10/26/23 14:08		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Dissolved	10/26/23 09:34	10/26/23 14:08		1.015	0.0282	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/26/23 09:34	10/26/23 14:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/26/23 09:34	10/26/23 14:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/26/23 09:34	10/26/23 14:08		1.015	0.000331	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	10/26/23 09:34	10/26/23 14:08		1.015	0.000701	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/26/23 09:34	10/26/23 14:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/26/23 09:34	10/26/23 14:08		1.015	0.00799	mg/L	0.000152	0.001015	
* Potassium, Dissolved	10/26/23 09:34	10/26/23 14:08		1.015	1.60	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/26/23 09:34	10/26/23 14:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/26/23 09:34	10/26/23 14:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 16:55		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/14/23 16:06	11/14/23 16:06		1	0.0240	mg/L	0.02	0.04	J
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/25/23 14:17	10/25/23 14:17		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	11/3/23 10:38	11/3/23 12:15		1	4.17	SU		2	
* Alkalinity	11/3/23 10:38	11/3/23 12:15		1	9.90	mg CaCO3/L		1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	38.7	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	11/3/23 10:38	11/3/23 12:15		1	9.90	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	11/3/23 10:38	11/3/23 12:15		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-55HO

**Location Code:** WMWGREAP  
**Collected:** 10/24/23 14:37  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19569

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/26/23 18:28	10/26/23 18:28		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:28	10/30/23 14:28		1	3.27	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:24	10/26/23 11:24		1	6.10	mg/L	0.6	2	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: DKG</b>							
Conductivity	10/24/23 14:34	10/24/23 14:34			49.10	uS/cm			FA
pH	10/24/23 14:34	10/24/23 14:34			5.08	SU			FA
Temperature	10/24/23 14:34	10/24/23 14:34			18.69	C			FA
Turbidity	10/24/23 14:34	10/24/23 14:34			4.85	NTU			FA
Sulfide	10/24/23 14:34	10/24/23 14:34			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 14:37  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-55HO

**Laboratory ID Number:** BD19569

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19569	Aluminum, Dissolved	mg/L	-0.000397	0.0198	0.100	0.106	0.104	0.0939	0.0850 to 0.115	96.5	70.0 to 130	1.90	20.0
BD19569	Aluminum, Total	mg/L	0.000874	0.0198	0.100	0.182	0.192	0.0989	0.0850 to 0.115	116	70.0 to 130	5.35	20.0
BD19569	Antimony, Dissolved	mg/L	0.000235	0.00100	0.100	0.0992	0.0955	0.0923	0.0850 to 0.115	99.2	70.0 to 130	3.80	20.0
BD19569	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.101	0.0982	0.0985	0.0850 to 0.115	101	70.0 to 130	2.81	20.0
BD19569	Arsenic, Dissolved	mg/L	-0.0000007	0.000200	0.100	0.0973	0.0992	0.0982	0.0850 to 0.115	97.3	70.0 to 130	1.93	20.0
BD19569	Arsenic, Total	mg/L	0.0000181	0.000200	0.100	0.0986	0.0983	0.0965	0.0850 to 0.115	98.6	70.0 to 130	0.305	20.0
BD19569	Barium, Dissolved	mg/L	0.0000116	0.00100	0.100	0.129	0.125	0.0979	0.0850 to 0.115	101	70.0 to 130	3.15	20.0
BD19569	Barium, Total	mg/L	-0.0000077	0.00100	0.100	0.133	0.125	0.0987	0.0850 to 0.115	105	70.0 to 130	6.20	20.0
BD19569	Beryllium, Dissolved	mg/L	0.0000098	0.000880	0.100	0.100	0.0994	0.0965	0.0850 to 0.115	100	70.0 to 130	0.602	20.0
BD19569	Beryllium, Total	mg/L	0.0000164	0.000880	0.100	0.0979	0.102	0.0918	0.0850 to 0.115	97.9	70.0 to 130	4.10	20.0
BD19569	Boron, Dissolved	mg/L	0.000149	0.0650	1.00	0.946	0.943	0.924	0.850 to 1.15	94.6	70.0 to 130	0.318	20.0
BD19569	Boron, Total	mg/L	-0.000007	0.0650	1.00	0.956	0.954	0.934	0.850 to 1.15	95.6	70.0 to 130	0.209	20.0
BD19569	Cadmium, Dissolved	mg/L	0.0000062	0.000147	0.100	0.0894	0.0890	0.0918	0.0850 to 0.115	89.4	70.0 to 130	0.448	20.0
BD19569	Cadmium, Total	mg/L	0.0000023	0.000147	0.100	0.0914	0.0939	0.0939	0.0850 to 0.115	91.4	70.0 to 130	2.70	20.0
BD19569	Calcium, Dissolved	mg/L	-0.0291	0.152	5.00	6.78	6.83	4.74	4.25 to 5.75	95.8	70.0 to 130	0.735	20.0
BD19569	Calcium, Total	mg/L	-0.0244	0.152	5.00	6.74	6.91	4.84	4.25 to 5.75	94.8	70.0 to 130	2.49	20.0
BD19569	Chloride	mg/L	0.0631	1.00	10.0	14.0	13.5	10.2	9.00 to 11.0	107	80.0 to 120	3.64	20.0
BD19569	Chromium, Dissolved	mg/L	-0.000153	0.000440	0.100	0.101	0.0995	0.0976	0.0850 to 0.115	101	70.0 to 130	1.50	20.0
BD19569	Chromium, Total	mg/L	-0.000152	0.000440	0.100	0.0982	0.101	0.0982	0.0850 to 0.115	97.8	70.0 to 130	2.81	20.0
BD19569	Cobalt, Dissolved	mg/L	-0.0000246	0.000147	0.100	0.103	0.103	0.0990	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19569	Cobalt, Total	mg/L	-0.0000240	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BD19569	Iron, Dissolved	mg/L	0.00111	0.0176	0.2	0.192	0.192	0.191	0.170 to 0.230	96.0	70.0 to 130	0.00	20.0
BD19569	Iron, Total	mg/L	-0.000536	0.0176	0.2	0.216	0.215	0.189	0.170 to 0.230	101	70.0 to 130	0.464	20.0
BD19569	Lead, Dissolved	mg/L	0.0000041	0.000147	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 14:37  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-55HO

**Laboratory ID Number:** BD19569

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
BD19569	Lead, Total	mg/L	0.0000046	0.000147	0.100	0.103	0.107	0.105	0.0850 to 0.115	103	70.0 to 130	3.81	20.0
BD19569	Lithium, Dissolved	mg/L	0.000314	0.0154	0.200	0.192	0.195	0.191	0.170 to 0.230	96.0	70.0 to 130	1.55	20.0
BD19569	Lithium, Total	mg/L	0.000678	0.0154	0.200	0.192	0.199	0.194	0.170 to 0.230	96.0	70.0 to 130	3.58	20.0
BD19569	Magnesium, Dissolved	mg/L	-0.0274	0.0462	5.00	6.13	6.16	4.74	4.25 to 5.75	95.0	70.0 to 130	0.488	20.0
BD19569	Magnesium, Total	mg/L	-0.0162	0.0462	5.00	6.09	6.27	4.84	4.25 to 5.75	94.0	70.0 to 130	2.91	20.0
BD19569	Manganese, Dissolved	mg/L	0.0000124	0.00033	0.100	0.113	0.111	0.102	0.0850 to 0.115	105	70.0 to 130	1.79	20.0
BD19569	Manganese, Total	mg/L	0.0000248	0.00033	0.100	0.110	0.113	0.104	0.0850 to 0.115	102	70.0 to 130	2.69	20.0
BD19570	Mercury, Total by CVAA	mg/L	7.130E-06	0.000500	0.004	0.00374	0.00379	0.00378	0.00340 to 0.00460	93.5	70.0 to 130	1.33	20.0
BD19569	Molybdenum, Dissolved	mg/L	-0.000030	0.0100	0.2	0.198	0.198	0.199	0.170 to 0.230	99.0	70.0 to 130	0.00	20.0
BD19569	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.199	0.200	0.200	0.170 to 0.230	99.5	70.0 to 130	0.501	20.0
BD19569	Potassium, Dissolved	mg/L	0.00100	0.367	10.0	11.4	11.2	9.40	8.50 to 11.5	98.0	70.0 to 130	1.77	20.0
BD19569	Potassium, Total	mg/L	0.00233	0.367	10.0	11.2	11.4	9.72	8.50 to 11.5	96.1	70.0 to 130	1.77	20.0
BD19569	Selenium, Dissolved	mg/L	0.0000637	0.00100	0.100	0.0994	0.100	0.0981	0.0850 to 0.115	99.4	70.0 to 130	0.602	20.0
BD19569	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.0968	0.0977	0.0996	0.0850 to 0.115	96.8	70.0 to 130	0.925	20.0
BD19569	Silicon, Dissolved	mg/L	-0.000183	0.0440	1.00	5.55	5.54	0.955	0.850 to 1.15	98.0	70.0 to 130	0.180	20.0
BD19569	Silicon, Total	mg/L	-0.000764	0.0440	1.00	5.62	5.68	0.967	0.850 to 1.15	99.0	70.0 to 130	1.06	20.0
BD19569	Sodium, Dissolved	mg/L	0.00683	0.0880	5.00	9.02	9.07	4.78	4.25 to 5.75	94.8	70.0 to 130	0.553	20.0
BD19569	Sodium, Total	mg/L	0.00422	0.0880	5.00	9.01	9.32	4.85	4.25 to 5.75	93.4	70.0 to 130	3.38	20.0
BD19589	Sulfate	mg/L	0.286	2.0	20.0	19.6	19.8	20.1	18.0 to 22.0	91.4	80.0 to 120	1.02	20.0
BD19569	Thallium, Dissolved	mg/L	-0.0000313	0.000147	0.100	0.102	0.104	0.107	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BD19569	Thallium, Total	mg/L	-0.0000244	0.000147	0.100	0.106	0.110	0.108	0.0850 to 0.115	106	70.0 to 130	3.70	20.0
BD19569	Total Organic Carbon	mg/L	0.274	1.00	10.0	10.9	10.6	24.7		109	80.0 to 120	2.79	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/24/23 14:37  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond - MW-55HO

**Laboratory ID Number:** BD19569

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BD19568	Alkalinity	mg CaCO3/L					81.2	51.1	45.0 to 55.0			0.494	10.0
BD19569	Fluoride	mg/L	0.000000	0.0200	2.00	2.11	0.0272	2.07	1.80 to 2.20	104	80.0 to 120	12.5	20.0
BD19569	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.04	0.200	2.00	2.28	0.201	1.87	1.80 to 2.20	114	90.0 to 110	0.00	15.0
BD19585	Solids, Dissolved	mg/L	0.0000	25.0			1020	47.0	40.0 to 60.0			0.00	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.  
 Nitrate-Nitrite matrix spike recovery and/or matrix spike duplicate recovery passes using values below the detection limit.

# Certificate Of Analysis

**Description:** Greene County Ash Pond Equipment Blank-1

**Location Code:** WMWGREAPEB  
**Collected:** 10/24/23 15:00  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19570

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	10/26/23 12:09	11/1/23 12:24		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/26/23 12:09	11/1/23 12:24		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	10/26/23 12:09	11/1/23 12:24		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	10/26/23 12:09	11/1/23 12:24		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/26/23 12:09	11/1/23 12:24		1.015	Not Detected	mg/L	0.021315	0.406	U	
* Molybdenum, Total	10/26/23 12:09	11/1/23 12:24		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/26/23 12:09	11/1/23 12:24		1	Not Detected	mg/L				
* Silicon, Total	10/26/23 12:09	11/1/23 12:24		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	10/26/23 12:09	11/1/23 12:24		1.015	0.0429	mg/L	0.04060	0.406	J	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	10/26/23 12:09	10/26/23 20:00		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Arsenic, Total	10/26/23 12:09	10/26/23 20:00		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Aluminum, Total	10/26/23 12:09	10/26/23 20:00		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Barium, Total	10/26/23 12:09	10/26/23 20:00		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	10/26/23 12:09	10/26/23 20:00		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/26/23 12:09	10/26/23 20:00		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/26/23 12:09	10/26/23 20:00		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	10/26/23 12:09	10/26/23 20:00		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	10/26/23 12:09	10/26/23 20:00		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/26/23 12:09	10/26/23 20:00		1.015	Not Detected	mg/L	0.000152	0.001015	U	
* Potassium, Total	10/26/23 12:09	10/26/23 20:00		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	10/26/23 12:09	10/26/23 20:00		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	10/26/23 12:09	10/26/23 20:00		1.015	Not Detected	mg/L	0.000068	0.000203	U	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>								
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 16:57		1	Not Detected	mg/L	0.0003	0.0005	U	
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>								
* Fluoride	11/14/23 21:34	11/14/23 21:34		1	Not Detected	mg/L	0.02	0.04	U	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>								
* Nitrogen, Nitrate/Nitrite	10/25/23 14:22	10/25/23 14:22		1	Not Detected	mg/L as N	0.20	0.3	U	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Equipment Blank-1

**Location Code:** WMWGREAPEB  
**Collected:** 10/24/23 15:00  
**Customer ID:**  
**Submittal Date:** 10/25/23 09:49

**Laboratory ID Number:** BD19570

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/25/23 14:47	10/26/23 13:55		1	Not Detected	mg/L		25	U
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/26/23 19:20	10/26/23 19:20		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500CI E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:42	10/30/23 14:42		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 11:25	10/26/23 11:25		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**



# Batch QC Summary

**Customer Account:** WMWGREAPEB  
**Sample Date:** 10/24/23 15:00  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD19570

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD19570	Aluminum, Total	mg/L	0.000874	0.0198	0.100	0.102	0.101	0.0989	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD19570	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.0968	0.0943	0.0985	0.0850 to 0.115	96.8	70.0 to 130	2.62	20.0
BD19570	Arsenic, Total	mg/L	0.0000181	0.000200	0.100	0.0975	0.0956	0.0965	0.0850 to 0.115	97.5	70.0 to 130	1.97	20.0
BD19570	Barium, Total	mg/L	-0.0000077	0.00100	0.100	0.102	0.0983	0.0987	0.0850 to 0.115	102	70.0 to 130	3.69	20.0
BD19570	Beryllium, Total	mg/L	0.0000164	0.000880	0.100	0.0945	0.0947	0.0918	0.0850 to 0.115	94.5	70.0 to 130	0.211	20.0
BD19570	Boron, Total	mg/L	-0.000007	0.0650	1.00	0.952	0.935	0.934	0.850 to 1.15	95.2	70.0 to 130	1.80	20.0
BD19570	Cadmium, Total	mg/L	0.0000023	0.000147	0.100	0.0893	0.0900	0.0939	0.0850 to 0.115	89.3	70.0 to 130	0.781	20.0
BD19570	Calcium, Total	mg/L	-0.0244	0.152	5.00	4.90	4.92	4.84	4.25 to 5.75	98.0	70.0 to 130	0.407	20.0
BD19590	Chloride	mg/L	0.0716	1.00	10.0	20.5	20.2	10.1	9.00 to 11.0	98.0	80.0 to 120	1.47	20.0
BD19570	Chromium, Total	mg/L	-0.000152	0.000440	0.100	0.0981	0.0969	0.0982	0.0850 to 0.115	98.1	70.0 to 130	1.23	20.0
BD19570	Cobalt, Total	mg/L	-0.0000240	0.000147	0.100	0.103	0.101	0.102	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BD19570	Iron, Total	mg/L	-0.000536	0.0176	0.2	0.197	0.195	0.189	0.170 to 0.230	98.5	70.0 to 130	1.02	20.0
BD19570	Lead, Total	mg/L	0.0000046	0.000147	0.100	0.103	0.100	0.105	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BD19570	Lithium, Total	mg/L	0.000678	0.0154	0.200	0.200	0.196	0.194	0.170 to 0.230	100	70.0 to 130	2.02	20.0
BD19570	Magnesium, Total	mg/L	-0.0162	0.0462	5.00	4.97	4.92	4.84	4.25 to 5.75	99.4	70.0 to 130	1.01	20.0
BD19570	Manganese, Total	mg/L	0.0000248	0.00033	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BD19570	Mercury, Total by CVAA	mg/L	7.130E-06	0.000500	0.004	0.00374	0.00379	0.00378	0.00340 to 0.00460	93.5	70.0 to 130	1.33	20.0
BD19570	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.202	0.198	0.200	0.170 to 0.230	101	70.0 to 130	2.00	20.0
BD19570	Potassium, Total	mg/L	0.00233	0.367	10.0	9.83	9.71	9.72	8.50 to 11.5	98.3	70.0 to 130	1.23	20.0
BD19570	Selenium, Total	mg/L	0.0000258	0.00100	0.100	0.0968	0.0971	0.0996	0.0850 to 0.115	96.8	70.0 to 130	0.309	20.0
BD19570	Silicon, Total	mg/L	-0.000764	0.0440	1.00	0.994	0.981	0.967	0.850 to 1.15	99.4	70.0 to 130	1.32	20.0
BD19570	Sodium, Total	mg/L	0.00422	0.0880	5.00	5.06	4.99	4.85	4.25 to 5.75	100	70.0 to 130	1.39	20.0
BD19589	Sulfate	mg/L	0.286	2.0	20.0	19.6	19.8	20.1	18.0 to 22.0	91.4	80.0 to 120	1.02	20.0
BD19570	Thallium, Total	mg/L	-0.0000244	0.000147	0.100	0.105	0.105	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPEB  
**Sample Date:** 10/24/23 15:00  
**Customer ID:**  
**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD19570

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BD19569	Total Organic Carbon	mg/L	0.274	1.00	10.0	10.9	10.6	24.7		109	80.0 to 120	2.79	20.0

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**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPEB

**Sample Date:** 10/24/23 15:00

**Customer ID:**

**Delivery Date:** 10/25/23 09:49

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD19570

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19590	Fluoride	mg/L	0.000000	0.0200	2.00	2.31	0.197	2.07	1.80 to 2.20	105	80.0 to 120	5.43	20.0
BD19570	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.03	0.200	2.00	1.94	-0.047	1.83	1.80 to 2.20	97.0	90.0 to 110	0.00	15.0
BD19585	Solids, Dissolved	mg/L	0.0000	25.0			1020	47.0	40.0 to 60.0			0.00	10.0

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**Comments:**

# Definitions

**Project Number:** WMWGREAP\_1429

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
U	Compound was analyzed, but not detected.



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks
	Collector: Dallas Gentry		Requested By: Greg Budd
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-62HO	10/23/2023	14:31	6	Groundwater		BD19560	<input checked="" type="checkbox"/>
MW-63HO	10/23/2023	16:04	6	Groundwater		BD19561	<input checked="" type="checkbox"/>
FB-1	10/23/2023	16:20	5	Field Blank		BD19562	<input checked="" type="checkbox"/>
MW-47HO	10/24/2023	08:59	6	Groundwater		BD19563	<input checked="" type="checkbox"/>
MW-47HO dup	10/24/2023	08:59	6	Sample Duplicate		BD19564	<input checked="" type="checkbox"/>
MW-50HO	10/24/2023	10:00	6	Groundwater		BD19565	<input checked="" type="checkbox"/>
MW-60HO	10/24/2023	11:11	6	Groundwater		BD19566	<input checked="" type="checkbox"/>
MW-61HO	10/24/2023	12:05	6	Groundwater		BD19567	<input checked="" type="checkbox"/>
MW-59HO	10/24/2023	12:50	6	Groundwater		BD19568	<input checked="" type="checkbox"/>
MW-55HO	10/24/2023	14:37	6	Groundwater		BD19569	<input checked="" type="checkbox"/>
EB-1	10/24/2023	15:00	5	Equipment Blank		BD19570	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
		10/24/2023 19:00
		10/25/2023 08:14

SmarTroll ID	7586-41443-5-2	Cooler Temp	1.0 °C
Turbidity ID	9901-57263-1-1	Thermometer ID	10614-61208-2-1
Sample Event	1429	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks
	Collector		Dallas Gentry
		Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Radium MS/MSD collected at MW-50HO

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-62HO	10/23/2023	14:31	1	Groundwater		BD19571	<input checked="" type="checkbox"/>
MW-63HO	10/23/2023	16:04	1	Groundwater		BD19572	<input checked="" type="checkbox"/>
FB-1	10/23/2023	16:20	1	Field Blank		BD19573	<input checked="" type="checkbox"/>
MW-47HO	10/24/2023	08:59	1	Groundwater		BD19574	<input checked="" type="checkbox"/>
MW-47HO dup	10/24/2023	08:59	1	Sample Duplicate		BD19575	<input checked="" type="checkbox"/>
MW-50HO	10/24/2023	10:00	3	Groundwater		BD19576	<input checked="" type="checkbox"/>
MW-60HO	10/24/2023	11:11	1	Groundwater		BD19577	<input checked="" type="checkbox"/>
MW-61HO	10/24/2023	12:05	1	Groundwater		BD19578	<input checked="" type="checkbox"/>
MW-59HO	10/24/2023	12:50	1	Groundwater		BD19579	<input checked="" type="checkbox"/>
MW-55HO	10/24/2023	14:37	1	Groundwater		BD19580	<input checked="" type="checkbox"/>
EB-1	10/24/2023	15:00	1	Equipment Blank		BD19581	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Relinquished By	Received By	Date/Time
		10/24/2023 19:00
		10/25/2023 08:15

SmarTroll ID	7586-41443-5-2	Cooler Temp	N/A
Turbidity ID	9901-57263-1-1	Thermometer ID	N/A
Sample Event	1429	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks

Alabama Power  
General Test Laboratory  
744 County Road 87, GSC #8  
Calera, AL 35040  
205-664-6001

# *Analytical Report*



**Sample Group :** WMWGREAP\_1428

**Project/Site :** Greene County Ash Pond  
Demopolis, AL 36732

**For :** Southern Company Services  
3535 Colonnade Parkway  
Birmingham, AL 35243

**Attention :** Dustin Brooks & Greg Budd

**Released By :** Brooke Caton  
tbwill@southernco.com  
(205) 664-6101

November 21, 2023

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on October 19, 2023. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114  
Issued By: State of Florida, Department of Health  
Expiration: June 30, 2024

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Quality Control: **Brooke  
Caton**

Digitally signed by Brooke  
Caton  
Date: 2023.11.21  
13:26:04 -06'00'

Supervision: **T Durant  
Maske**

Digitally signed by T Durant Maske  
DN: cn=T Durant Maske, gn=T Durant Maske c=US  
United States u=US United States  
e=t.durante@southernco.com  
Reason: I am the author of this document  
Location:  
Date: 2023-11-21 14:01:06:00



### REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.  
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Alabama Power's General Test Laboratory.





## Case Narrative

Total Metals ICP

Greene Co. Ash Pond

WMWGREAP\_1428

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19305	769492	WMWGREAP_1428
BD19306	769492	WMWGREAP_1428
BD19307	769492	WMWGREAP_1428
BD19308	769492	WMWGREAP_1428
BD19309	769492	WMWGREAP_1428

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed, and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
    - BD19309 Calcium MS/MSD spike levels were less than 30% of the sample concentrations.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19305	Calcium	10.15
BD19306	Calcium	10.15
BD19309	Calcium	10.15

8. The raw data results are shown with dilution factors included.

## Case Narrative

Dissolved Metals ICP

Greene Co. Ash Pond

WMWGREAP\_1428

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19305	769462	WMWGREAP_1428
BD19306	769462	WMWGREAP_1428
BD19309	769462	WMWGREAP_1428

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19305	Calcium	10.15
BD19306	Calcium	10.15
BD19309	Calcium	10.15

8. The raw data results are shown with dilution factors included.

## Case Narrative

Total Metals ICPMS

Greene Co. Ash Pond

WMWGREAP\_1428

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19305	770403	WMWGREAP_1428
BD19306	770403	WMWGREAP_1428
BD19307	770403	WMWGREAP_1428
BD19308	770403	WMWGREAP_1428
BD19309	770403	WMWGREAP_1428

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
    - BD19309 Manganese MS/MSD spike levels were less than 30% of the sample concentrations.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19305	Manganese	5.075
BD19306	Manganese	5.075
BD19309	Manganese	5.075

8. The raw data results are shown with dilution factors included.

## Case Narrative

Dissolved Metals ICPMS

Greene Co. Ash Pond

WMWGREAP\_1428

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19305	770333	WMWGREAP_1428
BD19306	770333	WMWGREAP_1428
BD19309	770333	WMWGREAP_1428

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
    - BD19309 Manganese MS/MSD spike levels were less than 30% of the sample concentrations.
  - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19305	Manganese	5.075
BD19306	Manganese	5.075
BD19309	Manganese	5.075

8. The raw data results are shown with dilution factors included.



## Case Narrative

Mercury

Greene Co. Ash Pond

WMWGREAP\_1428

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19305	769664	WMWGREAP_1428
BD19306	769664	WMWGREAP_1428
BD19307	769664	WMWGREAP_1428
BD19308	769664	WMWGREAP_1428
BD19309	769664	WMWGREAP_1428

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.

## Case Narrative

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.

## Case Narrative

Total Dissolved Solids

Greene Co. Ash Pond

WMWGREAP\_1428

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19305	769291	WMWGREAP_1428
BD19306	769291	WMWGREAP_1428
BD19307	769291	WMWGREAP_1428
BD19308	769292	WMWGREAP_1428
BD19309	769292	WMWGREAP_1428

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was  $\leq 10\%$ .
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue  $< 2.5\text{mg}$  had the maximum volume of 150mL filtered. Affected samples are as follows:
  - BD19307
  - BD19308

## Case Narrative

Alkalinity

Greene Co. Ash Pond

WMWGREAP\_1428

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19305	770638, 770639, 770640, 770641	WMWGREAP_1428
BD19306	770638, 770639, 770640, 770641	WMWGREAP_1428
BD19309	770638, 770639, 770640, 770641	WMWGREAP_1428

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.

Anions

Greene Co. Ash Pond

WMWGREAP\_1428

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19305	770161, 770025	WMWGREAP_1428
BD19306	770161, 770025	WMWGREAP_1428
BD19307	770161, 770025	WMWGREAP_1428
BD19308	770161, 770025	WMWGREAP_1428
BD19309	770161, 770025	WMWGREAP_1428

4. All of the above samples were analyzed and prepared by SM4500 Cl E and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

#### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.

Revision 5

## Case Narrative

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19305	Sulfate	5
BD19306	Sulfate	5
BD19309	Sulfate	4

8. The raw data results are shown with dilution factors included.

## Anions by Ion Chromatography

Greene Co. Ash Pond

WMWGREAP\_1428

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19305	770902	WMWGREAP_1428
BD19306	770902	WMWGREAP_1428
BD19307	770902	WMWGREAP_1428
BD19308	770902	WMWGREAP_1428
BD19309	770902	WMWGREAP_1428

4. All of the above samples were analyzed and prepared by EPA 300.0.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below half the the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike was analyzed with each batch. All acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. All acceptance criteria for precision were met.

Revision 5

7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.



## Case Narrative

Nitrate-Nitrite

Greene Co. Ash Pond

WMWGREAP\_1428

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19305	769631	WMWGREAP_1428
BD19306	769631	WMWGREAP_1428
BD19307	769631	WMWGREAP_1428
BD19308	769631	WMWGREAP_1428
BD19309	769631	WMWGREAP_1428

4. All of the above samples were prepared and analyzed for NO<sub>x</sub> by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

### EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
  - Matrix Specific QC:
    - A sample duplicate was run and criteria for precision was met.
    - A matrix spike was run and criteria for accuracy was met.
7. All samples were analyzed without a dilution factor.
  8. The raw data results are shown with dilution factors included.

## Case Narrative

Total Organic Carbon

Greene Co. Ash Pond

WMWGREAP\_1428

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19305	769455	WMWGREAP_1428
BD19306	769455	WMWGREAP_1428
BD19307	769455	WMWGREAP_1428
BD19308	769455	WMWGREAP_1428
BD19309	769455	WMWGREAP_1428

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was  $<1/2RL$ .
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were  $<1/2RL$ .

### Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
  8. The raw data results are shown with dilution factors included.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-64HO

**Location Code:** WMWGREAP  
**Collected:** 10/18/23 10:47  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:19

**Laboratory ID Number:** BD19305

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/24/23 08:00	10/25/23 12:37		1.015	0.439	mg/L	0.030000	0.1015	
* Calcium, Total	10/24/23 08:00	10/25/23 16:15		10.15	60.6	mg/L	0.70035	4.06	
* Iron, Total	10/24/23 08:00	10/25/23 12:37		1.015	0.0366	mg/L	0.008120	0.0406	J
* Lithium, Total	10/24/23 08:00	10/25/23 12:37		1.015	0.169	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/24/23 08:00	10/25/23 12:37		1.015	16.9	mg/L	0.021315	0.406	
* Molybdenum, Total	10/24/23 08:00	10/25/23 12:37		1.015	0.0717	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/24/23 08:00	10/25/23 12:37		1	6.10	mg/L			
* Silicon, Total	10/24/23 08:00	10/25/23 12:37		1.015	2.85	mg/L	0.02030	0.25375	
* Sodium, Total	10/24/23 08:00	10/25/23 12:37		1.015	21.0	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/23/23 13:43	10/25/23 11:24		1.015	0.435	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/23/23 13:43	10/25/23 15:40		10.15	67.4	mg/L	0.70035	4.06	
* Iron, Dissolved	10/23/23 13:43	10/25/23 11:24		1.015	0.0135	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	10/23/23 13:43	10/25/23 11:24		1.015	0.169	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/23/23 13:43	10/25/23 11:24		1.015	16.9	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/23/23 13:43	10/25/23 11:24		1.015	0.0709	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/23/23 13:43	10/25/23 11:24		1	6.03	mg/L			
* Silicon, Dissolved	10/23/23 13:43	10/25/23 11:24		1.015	2.82	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/23/23 13:43	10/25/23 11:24		1.015	21.1	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/24/23 08:00	10/24/23 13:36		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/24/23 08:00	10/24/23 13:36		1.015	0.0279	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/24/23 08:00	10/24/23 13:36		1.015	0.000314	mg/L	0.000112	0.000203	
* Barium, Total	10/24/23 08:00	10/24/23 13:36		1.015	0.0767	mg/L	0.000508	0.001015	
* Beryllium, Total	10/24/23 08:00	10/24/23 13:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/24/23 08:00	10/24/23 13:36		1.015	0.000102	mg/L	0.000068	0.000203	J
* Chromium, Total	10/24/23 08:00	10/24/23 13:36		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/24/23 08:00	10/24/23 13:36		1.015	0.00355	mg/L	0.000068	0.000203	
* Lead, Total	10/24/23 08:00	10/24/23 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/24/23 08:00	10/24/23 14:01		5.075	4.69	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-64HO

**Location Code:** WMWGREAP  
**Collected:** 10/18/23 10:47  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:19

**Laboratory ID Number:** BD19305

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/24/23 08:00	10/24/23 13:36		1.015	6.67	mg/L	0.169505	0.5075	
* Selenium, Total	10/24/23 08:00	10/24/23 13:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/24/23 08:00	10/24/23 13:36		1.015	0.0000952	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/23/23 13:43	10/23/23 17:36		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/23/23 13:43	10/23/23 17:36		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/23/23 13:43	10/23/23 17:36		1.015	0.000306	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/23/23 13:43	10/23/23 17:36		1.015	0.0729	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/23/23 13:43	10/23/23 17:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/23/23 13:43	10/23/23 17:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/23/23 13:43	10/23/23 17:36		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/23/23 13:43	10/23/23 17:36		1.015	0.00310	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/23/23 13:43	10/23/23 17:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/23/23 13:43	10/24/23 16:07		5.075	4.78	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/23/23 13:43	10/23/23 17:36		1.015	6.32	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/23/23 13:43	10/23/23 17:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/23/23 13:43	10/23/23 17:36		1.015	0.000114	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 15:38		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/8/23 14:07	11/8/23 14:07		1	0.200	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/25/23 11:04	10/25/23 11:04		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	10/31/23 13:10	10/31/23 13:55		1	4.50	SU		2	
* Alkalinity	10/31/23 13:10	10/31/23 13:55		1	135	mg CaCO3/L		1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/19/23 13:50	10/24/23 13:30		1	312	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	10/31/23 13:10	10/31/23 13:55		1	135	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	10/31/23 13:10	10/31/23 13:55		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-64HO

**Location Code:** WMWGREAP  
**Collected:** 10/18/23 10:47  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:19

**Laboratory ID Number:** BD19305

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/23/23 11:13	10/23/23 11:13		1	1.43	mg/L	1.00	2	J
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 13:51	10/30/23 13:51		1	9.31	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 10:41	10/26/23 10:41		5	117	mg/L	3.0	10	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	10/18/23 10:45	10/18/23 10:45			499.81	uS/cm			FA
pH	10/18/23 10:45	10/18/23 10:45			7.00	SU			FA
Temperature	10/18/23 10:45	10/18/23 10:45			19.55	C			FA
Turbidity	10/18/23 10:45	10/18/23 10:45			1.41	NTU			FA
Sulfide	10/18/23 10:45	10/18/23 10:45			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/18/23 10:47  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:19

**Description:** Greene County Ash Pond - MW-64HO

**Laboratory ID Number:** BD19305

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec		
BD19309	Aluminum, Dissolved	mg/L	-0.00157	0.0198	0.100	0.107	0.108	0.106	0.0850 to 0.115	107	70.0 to 130	0.930	20.0	
BD19309	Aluminum, Total	mg/L	0.000562	0.0198	0.100	0.109	0.112	0.0974	0.0850 to 0.115	96.6	70.0 to 130	2.71	20.0	
BD19309	Antimony, Dissolved	mg/L	0.000280	0.00100	0.100	0.101	0.0972	0.0942	0.0850 to 0.115	101	70.0 to 130	3.83	20.0	
BD19309	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.96	20.0	
BD19309	Arsenic, Dissolved	mg/L	-0.0000003	0.000200	0.100	0.102	0.0998	0.0994	0.0850 to 0.115	102	70.0 to 130	2.18	20.0	
BD19309	Arsenic, Total	mg/L	0.0000152	0.000200	0.100	0.100	0.100	0.0981	0.0850 to 0.115	99.8	70.0 to 130	0.00	20.0	
BD19309	Barium, Dissolved	mg/L	-0.0000064	0.00100	0.100	0.170	0.163	0.0993	0.0850 to 0.115	107	70.0 to 130	4.20	20.0	
BD19309	Barium, Total	mg/L	0.0000017	0.00100	0.100	0.166	0.166	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0	
BD19309	Beryllium, Dissolved	mg/L	0.0000067	0.000880	0.100	0.0946	0.0936	0.104	0.0850 to 0.115	94.6	70.0 to 130	1.06	20.0	
BD19309	Beryllium, Total	mg/L	0.0000036	0.000880	0.100	0.0995	0.101	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.50	20.0	
BD19309	Boron, Dissolved	mg/L	0.000042	0.0650	1.00	1.29	1.29	0.973	0.850 to 1.15	98.1	70.0 to 130	0.00	20.0	
BD19309	Boron, Total	mg/L	0.00107	0.0650	1.00	1.30	1.31	0.968	0.850 to 1.15	98.6	70.0 to 130	0.766	20.0	
BD19309	Cadmium, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.102	0.0993	0.101	0.0850 to 0.115	102	70.0 to 130	2.68	20.0	
BD19309	Cadmium, Total	mg/L	-0.0000024	0.000147	0.100	0.0998	0.0983	0.0967	0.0850 to 0.115	99.8	70.0 to 130	1.51	20.0	
BD19309	Calcium, Dissolved	mg/L	-0.0146	0.152	5.00	63.5	65.1	4.97	4.25 to 5.75	82.0	70.0 to 130	2.49	20.0	
BD19309	Calcium, Total	mg/L	0.000097	0.152	5.00	71.2	60.4	4.83	4.25 to 5.75	276	70.0 to 130	16.4	20.0	
BD19318	Chloride	mg/L	0.0544	1.00	10.0	10.1	10.1	10.2	9.00 to 11.0	101	80.0 to 120	0.00	20.0	
BD19309	Chromium, Dissolved	mg/L	-0.0000784	0.000440	0.100	0.0941	0.0935	0.0945	0.0850 to 0.115	94.1	70.0 to 130	0.640	20.0	
BD19309	Chromium, Total	mg/L	-0.0000845	0.000440	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0	
BD19309	Cobalt, Dissolved	mg/L	0.0000035	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	98.9	70.0 to 130	1.94	20.0	
BD19309	Cobalt, Total	mg/L	-0.0000062	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	1.87	20.0	
BD19309	Iron, Dissolved	mg/L	0.000345	0.0176	0.2	0.202	0.200	0.197	0.170 to 0.230	101	70.0 to 130	0.995	20.0	
BD19309	Iron, Total	mg/L	-0.000075	0.0176	0.2	0.213	0.214	0.199	0.170 to 0.230	100	70.0 to 130	0.468	20.0	
BD19309	Lead, Dissolved	mg/L	-0.0000013	0.000147	0.100	0.100	0.100	0.0948	0.0850 to 0.115	100	70.0 to 130	0.00	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/18/23 10:47  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:19

**Description:** Greene County Ash Pond - MW-64HO

**Laboratory ID Number:** BD19305

Sample	Analysis	Units	MB					Standard		Rec			Prec
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BD19309	Lead, Total	mg/L	0.0000059	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19309	Lithium, Dissolved	mg/L	0.000203	0.0154	0.200	0.331	0.335	0.197	0.170 to 0.230	97.5	70.0 to 130	1.20	20.0
BD19309	Lithium, Total	mg/L	0.000290	0.0154	0.200	0.336	0.337	0.197	0.170 to 0.230	99.5	70.0 to 130	0.297	20.0
BD19309	Magnesium, Dissolved	mg/L	-0.0259	0.0462	5.00	21.2	21.3	4.97	4.25 to 5.75	100	70.0 to 130	0.471	20.0
BD19309	Magnesium, Total	mg/L	-0.0129	0.0462	5.00	21.8	21.7	4.92	4.25 to 5.75	102	70.0 to 130	0.460	20.0
BD19309	Manganese, Dissolved	mg/L	-0.0000162	0.00033	0.100	2.20	2.23	0.102	0.0850 to 0.115	110	70.0 to 130	1.35	20.0
BD19309	Manganese, Total	mg/L	0.0000204	0.00033	0.100	2.21	2.29	0.101	0.0850 to 0.115	90.0	70.0 to 130	3.56	20.0
BD19309	Mercury, Total by CVAA	mg/L	5.090E-06	0.000500	0.004	0.00374	0.00374	0.00385	0.00340 to 0.00460	93.5	70.0 to 130	0.00	20.0
BD19309	Molybdenum, Dissolved	mg/L	0.000026	0.0100	0.2	0.254	0.257	0.201	0.170 to 0.230	99.2	70.0 to 130	1.17	20.0
BD19309	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.260	0.260	0.201	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD19309	Potassium, Dissolved	mg/L	-0.0143	0.367	10.0	15.8	16.3	10.1	8.50 to 11.5	97.6	70.0 to 130	3.12	20.0
BD19309	Potassium, Total	mg/L	0.0195	0.367	10.0	15.7	15.8	10.0	8.50 to 11.5	98.4	70.0 to 130	0.635	20.0
BD19309	Selenium, Dissolved	mg/L	0.0000238	0.00100	0.100	0.109	0.108	0.102	0.0850 to 0.115	109	70.0 to 130	0.922	20.0
BD19309	Selenium, Total	mg/L	-0.0000577	0.00100	0.100	0.0972	0.0984	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.23	20.0
BD19309	Silicon, Dissolved	mg/L	-0.00136	0.0440	1.00	3.65	3.65	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD19309	Silicon, Total	mg/L	-0.00103	0.0440	1.00	3.71	3.71	0.992	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD19309	Sodium, Dissolved	mg/L	0.0178	0.0880	5.00	19.0	19.2	4.99	4.25 to 5.75	98.0	70.0 to 130	1.05	20.0
BD19309	Sodium, Total	mg/L	0.00728	0.0880	5.00	19.0	19.0	4.94	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD19317	Sulfate	mg/L	-0.102	2.0	20.0	19.5	20.1	20.0	18.0 to 22.0	97.5	80.0 to 120	3.03	20.0
BD19309	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.101	0.102	0.0974	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19309	Thallium, Total	mg/L	0.0000012	0.000147	0.100	0.0988	0.100	0.103	0.0850 to 0.115	98.8	70.0 to 130	1.21	20.0
BD19315	Total Organic Carbon	mg/L	0.124	1.00	10.0	12.1	11.2	25.3		110	80.0 to 120	7.73	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/18/23 10:47  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:19

**Description:** Greene County Ash Pond - MW-64HO

**Laboratory ID Number:** BD19305

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19309	Alkalinity	mg CaCO3/L					134	51.0	45.0 to 55.0			0.749	10.0
BD19318	Fluoride	mg/L	0.000	0.0200	2.00	2.07	0.000	2.05	1.80 to 2.20	104	80.0 to 120	0.00	20.0
BD19309	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.81	0.807	1.83	1.80 to 2.20	96.0	90.0 to 110	9.78	15.0
BD19306	Solids, Dissolved	mg/L	0.0000	25.0			313	53.0	40.0 to 60.0			0.963	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-64HO DUP

**Location Code:** WMWGREAP  
**Collected:** 10/18/23 10:47  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:19

**Laboratory ID Number:** BD19306

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/24/23 08:00	10/25/23 12:40		1.015	0.439	mg/L	0.030000	0.1015	
* Calcium, Total	10/24/23 08:00	10/25/23 16:18		10.15	66.8	mg/L	0.70035	4.06	
* Iron, Total	10/24/23 08:00	10/25/23 12:40		1.015	0.0362	mg/L	0.008120	0.0406	J
* Lithium, Total	10/24/23 08:00	10/25/23 12:40		1.015	0.168	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/24/23 08:00	10/25/23 12:40		1.015	16.7	mg/L	0.021315	0.406	
* Molybdenum, Total	10/24/23 08:00	10/25/23 12:40		1.015	0.0724	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/24/23 08:00	10/25/23 12:40		1	6.10	mg/L			
* Silicon, Total	10/24/23 08:00	10/25/23 12:40		1.015	2.85	mg/L	0.02030	0.25375	
* Sodium, Total	10/24/23 08:00	10/25/23 12:40		1.015	20.8	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Dissolved	10/23/23 13:43	10/25/23 11:27		1.015	0.436	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/23/23 13:43	10/25/23 15:43		10.15	62.6	mg/L	0.70035	4.06	
* Iron, Dissolved	10/23/23 13:43	10/25/23 11:27		1.015	0.0130	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	10/23/23 13:43	10/25/23 11:27		1.015	0.168	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/23/23 13:43	10/25/23 11:27		1.015	16.7	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/23/23 13:43	10/25/23 11:27		1.015	0.0709	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/23/23 13:43	10/25/23 11:27		1	6.06	mg/L			
* Silicon, Dissolved	10/23/23 13:43	10/25/23 11:27		1.015	2.83	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/23/23 13:43	10/25/23 11:27		1.015	21.0	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/24/23 08:00	10/24/23 13:39		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/24/23 08:00	10/24/23 13:39		1.015	0.0255	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/24/23 08:00	10/24/23 13:39		1.015	0.000293	mg/L	0.000112	0.000203	
* Barium, Total	10/24/23 08:00	10/24/23 13:39		1.015	0.0759	mg/L	0.000508	0.001015	
* Beryllium, Total	10/24/23 08:00	10/24/23 13:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/24/23 08:00	10/24/23 13:39		1.015	0.000119	mg/L	0.000068	0.000203	J
* Chromium, Total	10/24/23 08:00	10/24/23 13:39		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/24/23 08:00	10/24/23 13:39		1.015	0.00337	mg/L	0.000068	0.000203	
* Lead, Total	10/24/23 08:00	10/24/23 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/24/23 08:00	10/24/23 14:05		5.075	4.93	mg/L	0.000761	0.005075	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-64HO DUP

**Location Code:** WMWGREAP  
**Collected:** 10/18/23 10:47  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:19

**Laboratory ID Number:** BD19306

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/24/23 08:00	10/24/23 13:39		1.015	6.32	mg/L	0.169505	0.5075	
* Selenium, Total	10/24/23 08:00	10/24/23 13:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/24/23 08:00	10/24/23 13:39		1.015	0.0000989	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/23/23 13:43	10/23/23 17:39		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/23/23 13:43	10/23/23 17:39		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/23/23 13:43	10/23/23 17:39		1.015	0.000272	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/23/23 13:43	10/23/23 17:39		1.015	0.0749	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/23/23 13:43	10/23/23 17:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/23/23 13:43	10/23/23 17:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/23/23 13:43	10/23/23 17:39		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/23/23 13:43	10/23/23 17:39		1.015	0.00311	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/23/23 13:43	10/23/23 17:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/23/23 13:43	10/24/23 16:11		5.075	4.72	mg/L	0.000761	0.005075	
* Potassium, Dissolved	10/23/23 13:43	10/23/23 17:39		1.015	6.35	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/23/23 13:43	10/23/23 17:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/23/23 13:43	10/23/23 17:39		1.015	0.000104	mg/L	0.000068	0.000203	J
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 15:40		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/8/23 14:30	11/8/23 14:30		1	0.200	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/25/23 11:06	10/25/23 11:06		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	10/31/23 13:10	10/31/23 13:55		1	4.50	SU		2	
* Alkalinity	10/31/23 13:10	10/31/23 13:55		1	135	mg CaCO3/L		1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/19/23 13:50	10/24/23 13:30		1	310	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	10/31/23 13:10	10/31/23 13:55		1	134	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	10/31/23 13:10	10/31/23 13:55		1	0.892	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-64HO DUP

**Location Code:** WMWGREAP  
**Collected:** 10/18/23 10:47  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:19

**Laboratory ID Number:** BD19306

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/23/23 11:25	10/23/23 11:25		1	1.35	mg/L	1.00	2	J
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 13:52	10/30/23 13:52		1	9.29	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 10:42	10/26/23 10:42		5	115	mg/L	3.0	10	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	10/18/23 10:45	10/18/23 10:45			499.81	uS/cm			FA
pH	10/18/23 10:45	10/18/23 10:45			7.00	SU			FA
Temperature	10/18/23 10:45	10/18/23 10:45			19.55	C			FA
Turbidity	10/18/23 10:45	10/18/23 10:45			1.41	NTU			FA
Sulfide	10/18/23 10:45	10/18/23 10:45			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/18/23 10:47  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:19

**Description:** Greene County Ash Pond - MW-64HO DUP

**Laboratory ID Number:** BD19306

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19309	Aluminum, Dissolved	mg/L	-0.00157	0.0198	0.100	0.107	0.108	0.106	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD19309	Aluminum, Total	mg/L	0.000562	0.0198	0.100	0.109	0.112	0.0974	0.0850 to 0.115	96.6	70.0 to 130	2.71	20.0
BD19309	Antimony, Dissolved	mg/L	0.000280	0.00100	0.100	0.101	0.0972	0.0942	0.0850 to 0.115	101	70.0 to 130	3.83	20.0
BD19309	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD19309	Arsenic, Dissolved	mg/L	-0.0000003	0.000200	0.100	0.102	0.0998	0.0994	0.0850 to 0.115	102	70.0 to 130	2.18	20.0
BD19309	Arsenic, Total	mg/L	0.0000152	0.000200	0.100	0.100	0.100	0.0981	0.0850 to 0.115	99.8	70.0 to 130	0.00	20.0
BD19309	Barium, Dissolved	mg/L	-0.0000064	0.00100	0.100	0.170	0.163	0.0993	0.0850 to 0.115	107	70.0 to 130	4.20	20.0
BD19309	Barium, Total	mg/L	0.0000017	0.00100	0.100	0.166	0.166	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD19309	Beryllium, Dissolved	mg/L	0.0000067	0.000880	0.100	0.0946	0.0936	0.104	0.0850 to 0.115	94.6	70.0 to 130	1.06	20.0
BD19309	Beryllium, Total	mg/L	0.0000036	0.000880	0.100	0.0995	0.101	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.50	20.0
BD19309	Boron, Dissolved	mg/L	0.000042	0.0650	1.00	1.29	1.29	0.973	0.850 to 1.15	98.1	70.0 to 130	0.00	20.0
BD19309	Boron, Total	mg/L	0.00107	0.0650	1.00	1.30	1.31	0.968	0.850 to 1.15	98.6	70.0 to 130	0.766	20.0
BD19309	Cadmium, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.102	0.0993	0.101	0.0850 to 0.115	102	70.0 to 130	2.68	20.0
BD19309	Cadmium, Total	mg/L	-0.0000024	0.000147	0.100	0.0998	0.0983	0.0967	0.0850 to 0.115	99.8	70.0 to 130	1.51	20.0
BD19309	Calcium, Dissolved	mg/L	-0.0146	0.152	5.00	63.5	65.1	4.97	4.25 to 5.75	82.0	70.0 to 130	2.49	20.0
BD19309	Calcium, Total	mg/L	0.000097	0.152	5.00	71.2	60.4	4.83	4.25 to 5.75	276	70.0 to 130	16.4	20.0
BD19318	Chloride	mg/L	0.0544	1.00	10.0	10.1	10.1	10.2	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BD19309	Chromium, Dissolved	mg/L	-0.0000784	0.000440	0.100	0.0941	0.0935	0.0945	0.0850 to 0.115	94.1	70.0 to 130	0.640	20.0
BD19309	Chromium, Total	mg/L	-0.0000845	0.000440	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19309	Cobalt, Dissolved	mg/L	0.0000035	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	98.9	70.0 to 130	1.94	20.0
BD19309	Cobalt, Total	mg/L	-0.0000062	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD19309	Iron, Dissolved	mg/L	0.000345	0.0176	0.2	0.202	0.200	0.197	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD19309	Iron, Total	mg/L	-0.000075	0.0176	0.2	0.213	0.214	0.199	0.170 to 0.230	100	70.0 to 130	0.468	20.0
BD19309	Lead, Dissolved	mg/L	-0.0000013	0.000147	0.100	0.100	0.100	0.0948	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/18/23 10:47  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:19

**Description:** Greene County Ash Pond - MW-64HO DUP

**Laboratory ID Number:** BD19306

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19309	Lead, Total	mg/L	0.0000059	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19309	Lithium, Dissolved	mg/L	0.000203	0.0154	0.200	0.331	0.335	0.197	0.170 to 0.230	97.5	70.0 to 130	1.20	20.0
BD19309	Lithium, Total	mg/L	0.000290	0.0154	0.200	0.336	0.337	0.197	0.170 to 0.230	99.5	70.0 to 130	0.297	20.0
BD19309	Magnesium, Dissolved	mg/L	-0.0259	0.0462	5.00	21.2	21.3	4.97	4.25 to 5.75	100	70.0 to 130	0.471	20.0
BD19309	Magnesium, Total	mg/L	-0.0129	0.0462	5.00	21.8	21.7	4.92	4.25 to 5.75	102	70.0 to 130	0.460	20.0
BD19309	Manganese, Dissolved	mg/L	-0.0000162	0.00033	0.100	2.20	2.23	0.102	0.0850 to 0.115	110	70.0 to 130	1.35	20.0
BD19309	Manganese, Total	mg/L	0.0000204	0.00033	0.100	2.21	2.29	0.101	0.0850 to 0.115	90.0	70.0 to 130	3.56	20.0
BD19309	Mercury, Total by CVAA	mg/L	5.090E-06	0.000500	0.004	0.00374	0.00374	0.00385	0.00340 to 0.00460	93.5	70.0 to 130	0.00	20.0
BD19309	Molybdenum, Dissolved	mg/L	0.000026	0.0100	0.2	0.254	0.257	0.201	0.170 to 0.230	99.2	70.0 to 130	1.17	20.0
BD19309	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.260	0.260	0.201	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD19309	Potassium, Dissolved	mg/L	-0.0143	0.367	10.0	15.8	16.3	10.1	8.50 to 11.5	97.6	70.0 to 130	3.12	20.0
BD19309	Potassium, Total	mg/L	0.0195	0.367	10.0	15.7	15.8	10.0	8.50 to 11.5	98.4	70.0 to 130	0.635	20.0
BD19309	Selenium, Dissolved	mg/L	0.0000238	0.00100	0.100	0.109	0.108	0.102	0.0850 to 0.115	109	70.0 to 130	0.922	20.0
BD19309	Selenium, Total	mg/L	-0.0000577	0.00100	0.100	0.0972	0.0984	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.23	20.0
BD19309	Silicon, Dissolved	mg/L	-0.00136	0.0440	1.00	3.65	3.65	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD19309	Silicon, Total	mg/L	-0.00103	0.0440	1.00	3.71	3.71	0.992	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD19309	Sodium, Dissolved	mg/L	0.0178	0.0880	5.00	19.0	19.2	4.99	4.25 to 5.75	98.0	70.0 to 130	1.05	20.0
BD19309	Sodium, Total	mg/L	0.00728	0.0880	5.00	19.0	19.0	4.94	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD19317	Sulfate	mg/L	-0.102	2.0	20.0	19.5	20.1	20.0	18.0 to 22.0	97.5	80.0 to 120	3.03	20.0
BD19309	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.101	0.102	0.0974	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19309	Thallium, Total	mg/L	0.0000012	0.000147	0.100	0.0988	0.100	0.103	0.0850 to 0.115	98.8	70.0 to 130	1.21	20.0
BD19315	Total Organic Carbon	mg/L	0.124	1.00	10.0	12.1	11.2	25.3		110	80.0 to 120	7.73	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/18/23 10:47  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:19

**Description:** Greene County Ash Pond - MW-64HO DUP

**Laboratory ID Number:** BD19306

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19309	Alkalinity	mg CaCO3/L					134	51.0	45.0 to 55.0			0.749	10.0
BD19318	Fluoride	mg/L	0.000	0.0200	2.00	2.07	0.000	2.05	1.80 to 2.20	104	80.0 to 120	0.00	20.0
BD19309	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.81	0.807	1.83	1.80 to 2.20	96.0	90.0 to 110	9.78	15.0
BD19306	Solids, Dissolved	mg/L	0.0000	25.0			313	53.0	40.0 to 60.0			0.963	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond Equipment Blank-1

**Location Code:** WMWGREAPEB  
**Collected:** 10/18/23 11:20  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:19

**Laboratory ID Number:** BD19307

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/24/23 08:00	10/25/23 12:43		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/24/23 08:00	10/25/23 12:43		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	10/24/23 08:00	10/25/23 12:43		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/24/23 08:00	10/25/23 12:43		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/24/23 08:00	10/25/23 12:43		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	10/24/23 08:00	10/25/23 12:43		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/24/23 08:00	10/25/23 12:43		1	Not Detected	mg/L			
* Silicon, Total	10/24/23 08:00	10/25/23 12:43		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	10/24/23 08:00	10/25/23 12:43		1.015	Not Detected	mg/L	0.04060	0.406	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/24/23 08:00	10/24/23 13:43		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/24/23 08:00	10/24/23 13:43		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/24/23 08:00	10/24/23 13:43		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	10/24/23 08:00	10/24/23 13:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	10/24/23 08:00	10/24/23 13:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/24/23 08:00	10/24/23 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/24/23 08:00	10/24/23 13:43		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/24/23 08:00	10/24/23 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/24/23 08:00	10/24/23 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/24/23 08:00	10/24/23 13:43		1.015	0.000180	mg/L	0.000152	0.001015	J
* Potassium, Total	10/24/23 08:00	10/24/23 13:43		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/24/23 08:00	10/24/23 13:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/24/23 08:00	10/24/23 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 15:42		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/9/23 08:46	11/9/23 08:46		1	Not Detected	mg/L	0.02	0.04	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/25/23 11:08	10/25/23 11:08		1	Not Detected	mg/L as N	0.20	0.3	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Equipment Blank-1

**Location Code:** WMWGREAPEB  
**Collected:** 10/18/23 11:20  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:19

**Laboratory ID Number:** BD19307

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/19/23 13:50	10/24/23 13:30		1	Not Detected	mg/L		25	U
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/23/23 11:40	10/23/23 11:40		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500CI E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 13:54	10/30/23 13:54		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 10:31	10/26/23 10:31		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**



# Batch QC Summary

**Customer Account:** WMWGREAPEB  
**Sample Date:** 10/18/23 11:20  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:19

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD19307

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19309	Aluminum, Total	mg/L	0.000562	0.0198	0.100	0.109	0.112	0.0974	0.0850 to 0.115	96.6	70.0 to 130	2.71	20.0
BD19309	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD19309	Arsenic, Total	mg/L	0.0000152	0.000200	0.100	0.100	0.100	0.0981	0.0850 to 0.115	99.8	70.0 to 130	0.00	20.0
BD19309	Barium, Total	mg/L	0.0000017	0.00100	0.100	0.166	0.166	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD19309	Beryllium, Total	mg/L	0.0000036	0.000880	0.100	0.0995	0.101	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.50	20.0
BD19309	Boron, Total	mg/L	0.00107	0.0650	1.00	1.30	1.31	0.968	0.850 to 1.15	98.6	70.0 to 130	0.766	20.0
BD19309	Cadmium, Total	mg/L	-0.0000024	0.000147	0.100	0.0998	0.0983	0.0967	0.0850 to 0.115	99.8	70.0 to 130	1.51	20.0
BD19309	Calcium, Total	mg/L	0.000097	0.152	5.00	71.2	60.4	4.83	4.25 to 5.75	276	70.0 to 130	16.4	20.0
BD19318	Chloride	mg/L	0.0544	1.00	10.0	10.1	10.1	10.2	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BD19309	Chromium, Total	mg/L	-0.0000845	0.000440	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19309	Cobalt, Total	mg/L	-0.0000062	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD19309	Iron, Total	mg/L	-0.000075	0.0176	0.2	0.213	0.214	0.199	0.170 to 0.230	100	70.0 to 130	0.468	20.0
BD19309	Lead, Total	mg/L	0.0000059	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19309	Lithium, Total	mg/L	0.000290	0.0154	0.200	0.336	0.337	0.197	0.170 to 0.230	99.5	70.0 to 130	0.297	20.0
BD19309	Magnesium, Total	mg/L	-0.0129	0.0462	5.00	21.8	21.7	4.92	4.25 to 5.75	102	70.0 to 130	0.460	20.0
BD19309	Manganese, Total	mg/L	0.0000204	0.00033	0.100	2.21	2.29	0.101	0.0850 to 0.115	90.0	70.0 to 130	3.56	20.0
BD19309	Mercury, Total by CVAA	mg/L	5.090E-06	0.000500	0.004	0.00374	0.00374	0.00385	0.00340 to 0.00460	93.5	70.0 to 130	0.00	20.0
BD19309	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.260	0.260	0.201	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD19309	Potassium, Total	mg/L	0.0195	0.367	10.0	15.7	15.8	10.0	8.50 to 11.5	98.4	70.0 to 130	0.635	20.0
BD19309	Selenium, Total	mg/L	-0.0000577	0.00100	0.100	0.0972	0.0984	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.23	20.0
BD19309	Silicon, Total	mg/L	-0.00103	0.0440	1.00	3.71	3.71	0.992	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD19309	Sodium, Total	mg/L	0.00728	0.0880	5.00	19.0	19.0	4.94	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD19317	Sulfate	mg/L	-0.102	2.0	20.0	19.5	20.1	20.0	18.0 to 22.0	97.5	80.0 to 120	3.03	20.0
BD19309	Thallium, Total	mg/L	0.0000012	0.000147	0.100	0.0988	0.100	0.103	0.0850 to 0.115	98.8	70.0 to 130	1.21	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPEB  
**Sample Date:** 10/18/23 11:20  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:19

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD19307

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BD19315	Total Organic Carbon	mg/L	0.124	1.00	10.0	12.1	11.2	25.3		110	80.0 to 120	7.73	20.0

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**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPEB

**Sample Date:** 10/18/23 11:20

**Customer ID:**

**Delivery Date:** 10/19/23 12:19

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD19307

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19318	Fluoride	mg/L	0.000	0.0200	2.00	2.07	0.000	2.05	1.80 to 2.20	104	80.0 to 120	0.00	20.0
BD19309	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.81	0.807	1.83	1.80 to 2.20	96.0	90.0 to 110	9.78	15.0
BD19306	Solids, Dissolved	mg/L	0.0000	25.0			313	53.0	40.0 to 60.0			0.963	10.0

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**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-1

**Location Code:** WMWGREAPFB  
**Collected:** 10/18/23 11:30  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:19

**Laboratory ID Number:** BD19308

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/24/23 08:00	10/25/23 12:46		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/24/23 08:00	10/25/23 12:46		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	10/24/23 08:00	10/25/23 12:46		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/24/23 08:00	10/25/23 12:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/24/23 08:00	10/25/23 12:46		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	10/24/23 08:00	10/25/23 12:46		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/24/23 08:00	10/25/23 12:46		1	Not Detected	mg/L			
* Silicon, Total	10/24/23 08:00	10/25/23 12:46		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	10/24/23 08:00	10/25/23 12:46		1.015	Not Detected	mg/L	0.04060	0.406	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/24/23 08:00	10/24/23 13:46		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/24/23 08:00	10/24/23 13:46		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/24/23 08:00	10/24/23 13:46		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	10/24/23 08:00	10/24/23 13:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	10/24/23 08:00	10/24/23 13:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/24/23 08:00	10/24/23 13:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/24/23 08:00	10/24/23 13:46		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/24/23 08:00	10/24/23 13:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/24/23 08:00	10/24/23 13:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/24/23 08:00	10/24/23 13:46		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Potassium, Total	10/24/23 08:00	10/24/23 13:46		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/24/23 08:00	10/24/23 13:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/24/23 08:00	10/24/23 13:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 15:45		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/9/23 09:10	11/9/23 09:10		1	Not Detected	mg/L	0.02	0.04	U
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/25/23 11:10	10/25/23 11:10		1	Not Detected	mg/L as N	0.20	0.3	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-1

**Location Code:** WMWGREAPFB  
**Collected:** 10/18/23 11:30  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:19

**Laboratory ID Number:** BD19308

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/19/23 13:50	10/24/23 13:30		1	Not Detected	mg/L		25	U
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/23/23 11:54	10/23/23 11:54		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500CI E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 13:55	10/30/23 13:55		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 10:32	10/26/23 10:32		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB  
**Sample Date:** 10/18/23 11:30  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:19

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD19308

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19309	Aluminum, Total	mg/L	0.000562	0.0198	0.100	0.109	0.112	0.0974	0.0850 to 0.115	96.6	70.0 to 130	2.71	20.0
BD19309	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD19309	Arsenic, Total	mg/L	0.0000152	0.000200	0.100	0.100	0.100	0.0981	0.0850 to 0.115	99.8	70.0 to 130	0.00	20.0
BD19309	Barium, Total	mg/L	0.0000017	0.00100	0.100	0.166	0.166	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD19309	Beryllium, Total	mg/L	0.0000036	0.000880	0.100	0.0995	0.101	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.50	20.0
BD19309	Boron, Total	mg/L	0.00107	0.0650	1.00	1.30	1.31	0.968	0.850 to 1.15	98.6	70.0 to 130	0.766	20.0
BD19309	Cadmium, Total	mg/L	-0.0000024	0.000147	0.100	0.0998	0.0983	0.0967	0.0850 to 0.115	99.8	70.0 to 130	1.51	20.0
BD19309	Calcium, Total	mg/L	0.000097	0.152	5.00	71.2	60.4	4.83	4.25 to 5.75	276	70.0 to 130	16.4	20.0
BD19318	Chloride	mg/L	0.0544	1.00	10.0	10.1	10.1	10.2	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BD19309	Chromium, Total	mg/L	-0.0000845	0.000440	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19309	Cobalt, Total	mg/L	-0.0000062	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD19309	Iron, Total	mg/L	-0.000075	0.0176	0.2	0.213	0.214	0.199	0.170 to 0.230	100	70.0 to 130	0.468	20.0
BD19309	Lead, Total	mg/L	0.0000059	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19309	Lithium, Total	mg/L	0.000290	0.0154	0.200	0.336	0.337	0.197	0.170 to 0.230	99.5	70.0 to 130	0.297	20.0
BD19309	Magnesium, Total	mg/L	-0.0129	0.0462	5.00	21.8	21.7	4.92	4.25 to 5.75	102	70.0 to 130	0.460	20.0
BD19309	Manganese, Total	mg/L	0.0000204	0.00033	0.100	2.21	2.29	0.101	0.0850 to 0.115	90.0	70.0 to 130	3.56	20.0
BD19309	Mercury, Total by CVAA	mg/L	5.090E-06	0.000500	0.004	0.00374	0.00374	0.00385	0.00340 to 0.00460	93.5	70.0 to 130	0.00	20.0
BD19309	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.260	0.260	0.201	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD19309	Potassium, Total	mg/L	0.0195	0.367	10.0	15.7	15.8	10.0	8.50 to 11.5	98.4	70.0 to 130	0.635	20.0
BD19309	Selenium, Total	mg/L	-0.0000577	0.00100	0.100	0.0972	0.0984	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.23	20.0
BD19309	Silicon, Total	mg/L	-0.00103	0.0440	1.00	3.71	3.71	0.992	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD19309	Sodium, Total	mg/L	0.00728	0.0880	5.00	19.0	19.0	4.94	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD19317	Sulfate	mg/L	-0.102	2.0	20.0	19.5	20.1	20.0	18.0 to 22.0	97.5	80.0 to 120	3.03	20.0
BD19309	Thallium, Total	mg/L	0.0000012	0.000147	0.100	0.0988	0.100	0.103	0.0850 to 0.115	98.8	70.0 to 130	1.21	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB  
**Sample Date:** 10/18/23 11:30  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:19

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD19308

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BD19315	Total Organic Carbon	mg/L	0.124	1.00	10.0	12.1	11.2	25.3		110	80.0 to 120	7.73	20.0

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**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 10/18/23 11:30

**Customer ID:**

**Delivery Date:** 10/19/23 12:19

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD19308

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19318	Fluoride	mg/L	0.000	0.0200	2.00	2.07	0.000	2.05	1.80 to 2.20	104	80.0 to 120	0.00	20.0
BD19309	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.81	0.807	1.83	1.80 to 2.20	96.0	90.0 to 110	9.78	15.0
BD19316	Solids, Dissolved	mg/L	0.0000	25.0			538	53.0	40.0 to 60.0			0.741	10.0

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**Comments:**



# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-46HO

**Location Code:** WMWGREAP  
**Collected:** 10/18/23 12:10  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:19

**Laboratory ID Number:** BD19309

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/24/23 08:00	10/25/23 12:49		1.015	0.314	mg/L	0.030000	0.1015	
* Calcium, Total	10/24/23 08:00	10/25/23 16:21		10.15	57.4	mg/L	0.70035	4.06	RA
* Iron, Total	10/24/23 08:00	10/25/23 12:49		1.015	0.0123	mg/L	0.008120	0.0406	J
* Lithium, Total	10/24/23 08:00	10/25/23 12:49		1.015	0.137	mg/L	0.007105	0.01999956	
* Magnesium, Total	10/24/23 08:00	10/25/23 12:49		1.015	16.7	mg/L	0.021315	0.406	
* Molybdenum, Total	10/24/23 08:00	10/25/23 12:49		1.015	0.0562	mg/L	0.005075	0.01015	
* Silica, Total (calc.)	10/24/23 08:00	10/25/23 12:49		1	5.76	mg/L			
* Silicon, Total	10/24/23 08:00	10/25/23 12:49		1.015	2.69	mg/L	0.02030	0.25375	
* Sodium, Total	10/24/23 08:00	10/25/23 12:49		1.015	14.1	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>							
* Boron, Dissolved	10/23/23 13:43	10/25/23 11:31		1.015	0.309	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/23/23 13:43	10/25/23 15:46		10.15	59.4	mg/L	0.70035	4.06	
* Iron, Dissolved	10/23/23 13:43	10/25/23 11:31		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	10/23/23 13:43	10/25/23 11:31		1.015	0.136	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	10/23/23 13:43	10/25/23 11:31		1.015	16.2	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/23/23 13:43	10/25/23 11:31		1.015	0.0556	mg/L	0.005075	0.01015	
* Silica, Dissolved (calc.)	10/23/23 13:43	10/25/23 11:31		1	5.67	mg/L			
* Silicon, Dissolved	10/23/23 13:43	10/25/23 11:31		1.015	2.65	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/23/23 13:43	10/25/23 11:31		1.015	14.1	mg/L	0.04060	0.406	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/24/23 08:00	10/24/23 13:50		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/24/23 08:00	10/24/23 13:50		1.015	0.0124	mg/L	0.009135	0.05075	J
* Arsenic, Total	10/24/23 08:00	10/24/23 13:50		1.015	0.000240	mg/L	0.000112	0.000203	
* Barium, Total	10/24/23 08:00	10/24/23 13:50		1.015	0.0658	mg/L	0.000508	0.001015	
* Beryllium, Total	10/24/23 08:00	10/24/23 13:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/24/23 08:00	10/24/23 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/24/23 08:00	10/24/23 13:50		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/24/23 08:00	10/24/23 13:50		1.015	0.00337	mg/L	0.000068	0.000203	
* Lead, Total	10/24/23 08:00	10/24/23 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/24/23 08:00	10/24/23 14:09		5.075	2.12	mg/L	0.000761	0.005075	RA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-46HO

**Location Code:** WMWGREAP  
**Collected:** 10/18/23 12:10  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:19

**Laboratory ID Number:** BD19309

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/24/23 08:00	10/24/23 13:50		1.015	5.86	mg/L	0.169505	0.5075	
* Selenium, Total	10/24/23 08:00	10/24/23 13:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/24/23 08:00	10/24/23 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/23/23 13:43	10/23/23 17:43		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/23/23 13:43	10/23/23 17:43		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/23/23 13:43	10/23/23 17:43		1.015	0.000256	mg/L	0.000112	0.000203	
* Barium, Dissolved	10/23/23 13:43	10/23/23 17:43		1.015	0.0632	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/23/23 13:43	10/23/23 17:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/23/23 13:43	10/23/23 17:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	10/23/23 13:43	10/23/23 17:43		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/23/23 13:43	10/23/23 17:43		1.015	0.00309	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/23/23 13:43	10/23/23 17:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/23/23 13:43	10/24/23 16:15		5.075	2.09	mg/L	0.000761	0.005075	RA
* Potassium, Dissolved	10/23/23 13:43	10/23/23 17:43		1.015	6.04	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/23/23 13:43	10/23/23 17:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/23/23 13:43	10/23/23 17:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 15:47		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/9/23 09:33	11/9/23 09:33		1	0.143	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/25/23 11:11	10/25/23 11:11		1	0.890	mg/L as N	0.20	0.3	
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	10/31/23 13:10	10/31/23 13:55		1	4.51	SU		2	
* Alkalinity	10/31/23 13:10	10/31/23 13:55		1	133	mg CaCO3/L		1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/19/23 13:50	10/24/23 13:30		1	277	mg/L		25	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	10/31/23 13:10	10/31/23 13:55		1	133	mg CaCO3/L		1	
* Carbonate Alkalinity, (calc.)	10/31/23 13:10	10/31/23 13:55		1	Not Detected	mg CaCO3/L		0.5	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-46HO

**Location Code:** WMWGREAP  
**Collected:** 10/18/23 12:10  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:19

**Laboratory ID Number:** BD19309

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/23/23 12:11	10/23/23 12:11		1	1.13	mg/L	1.00	2	J
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 13:56	10/30/23 13:56		1	9.40	mg/L	0.50	1	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 10:43	10/26/23 10:43		4	87.4	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	10/18/23 12:06	10/18/23 12:06			454.23	uS/cm			FA
pH	10/18/23 12:06	10/18/23 12:06			6.72	SU			FA
Temperature	10/18/23 12:06	10/18/23 12:06			20.50	C			FA
Turbidity	10/18/23 12:06	10/18/23 12:06			1.33	NTU			FA
Sulfide	10/18/23 12:06	10/18/23 12:06			0	mg/L			FA

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/18/23 12:10  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:19

**Description:** Greene County Ash Pond - MW-46HO

**Laboratory ID Number:** BD19309

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19309	Aluminum, Dissolved	mg/L	-0.00157	0.0198	0.100	0.107	0.108	0.106	0.0850 to 0.115	107	70.0 to 130	0.930	20.0
BD19309	Aluminum, Total	mg/L	0.000562	0.0198	0.100	0.109	0.112	0.0974	0.0850 to 0.115	96.6	70.0 to 130	2.71	20.0
BD19309	Antimony, Dissolved	mg/L	0.000280	0.00100	0.100	0.101	0.0972	0.0942	0.0850 to 0.115	101	70.0 to 130	3.83	20.0
BD19309	Antimony, Total	mg/L	0.000238	0.00100	0.100	0.101	0.103	0.102	0.0850 to 0.115	101	70.0 to 130	1.96	20.0
BD19309	Arsenic, Dissolved	mg/L	-0.0000003	0.000200	0.100	0.102	0.0998	0.0994	0.0850 to 0.115	102	70.0 to 130	2.18	20.0
BD19309	Arsenic, Total	mg/L	0.0000152	0.000200	0.100	0.100	0.100	0.0981	0.0850 to 0.115	99.8	70.0 to 130	0.00	20.0
BD19309	Barium, Dissolved	mg/L	-0.0000064	0.00100	0.100	0.170	0.163	0.0993	0.0850 to 0.115	107	70.0 to 130	4.20	20.0
BD19309	Barium, Total	mg/L	0.0000017	0.00100	0.100	0.166	0.166	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BD19309	Beryllium, Dissolved	mg/L	0.0000067	0.000880	0.100	0.0946	0.0936	0.104	0.0850 to 0.115	94.6	70.0 to 130	1.06	20.0
BD19309	Beryllium, Total	mg/L	0.0000036	0.000880	0.100	0.0995	0.101	0.103	0.0850 to 0.115	99.5	70.0 to 130	1.50	20.0
BD19309	Boron, Dissolved	mg/L	0.000042	0.0650	1.00	1.29	1.29	0.973	0.850 to 1.15	98.1	70.0 to 130	0.00	20.0
BD19309	Boron, Total	mg/L	0.00107	0.0650	1.00	1.30	1.31	0.968	0.850 to 1.15	98.6	70.0 to 130	0.766	20.0
BD19309	Cadmium, Dissolved	mg/L	-0.0000023	0.000147	0.100	0.102	0.0993	0.101	0.0850 to 0.115	102	70.0 to 130	2.68	20.0
BD19309	Cadmium, Total	mg/L	-0.0000024	0.000147	0.100	0.0998	0.0983	0.0967	0.0850 to 0.115	99.8	70.0 to 130	1.51	20.0
BD19309	Calcium, Dissolved	mg/L	-0.0146	0.152	5.00	63.5	65.1	4.97	4.25 to 5.75	82.0	70.0 to 130	2.49	20.0
BD19309	Calcium, Total	mg/L	0.000097	0.152	5.00	71.2	60.4	4.83	4.25 to 5.75	276	70.0 to 130	16.4	20.0
BD19318	Chloride	mg/L	0.0544	1.00	10.0	10.1	10.1	10.2	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BD19309	Chromium, Dissolved	mg/L	-0.0000784	0.000440	0.100	0.0941	0.0935	0.0945	0.0850 to 0.115	94.1	70.0 to 130	0.640	20.0
BD19309	Chromium, Total	mg/L	-0.0000845	0.000440	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19309	Cobalt, Dissolved	mg/L	0.0000035	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	98.9	70.0 to 130	1.94	20.0
BD19309	Cobalt, Total	mg/L	-0.0000062	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	103	70.0 to 130	1.87	20.0
BD19309	Iron, Dissolved	mg/L	0.000345	0.0176	0.2	0.202	0.200	0.197	0.170 to 0.230	101	70.0 to 130	0.995	20.0
BD19309	Iron, Total	mg/L	-0.000075	0.0176	0.2	0.213	0.214	0.199	0.170 to 0.230	100	70.0 to 130	0.468	20.0
BD19309	Lead, Dissolved	mg/L	-0.0000013	0.000147	0.100	0.100	0.100	0.0948	0.0850 to 0.115	100	70.0 to 130	0.00	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/18/23 12:10  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:19

**Description:** Greene County Ash Pond - MW-46HO

**Laboratory ID Number:** BD19309

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19309	Lead, Total	mg/L	0.0000059	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BD19309	Lithium, Dissolved	mg/L	0.000203	0.0154	0.200	0.331	0.335	0.197	0.170 to 0.230	97.5	70.0 to 130	1.20	20.0
BD19309	Lithium, Total	mg/L	0.000290	0.0154	0.200	0.336	0.337	0.197	0.170 to 0.230	99.5	70.0 to 130	0.297	20.0
BD19309	Magnesium, Dissolved	mg/L	-0.0259	0.0462	5.00	21.2	21.3	4.97	4.25 to 5.75	100	70.0 to 130	0.471	20.0
BD19309	Magnesium, Total	mg/L	-0.0129	0.0462	5.00	21.8	21.7	4.92	4.25 to 5.75	102	70.0 to 130	0.460	20.0
BD19309	Manganese, Dissolved	mg/L	-0.0000162	0.00033	0.100	2.20	2.23	0.102	0.0850 to 0.115	110	70.0 to 130	1.35	20.0
BD19309	Manganese, Total	mg/L	0.0000204	0.00033	0.100	2.21	2.29	0.101	0.0850 to 0.115	90.0	70.0 to 130	3.56	20.0
BD19309	Mercury, Total by CVAA	mg/L	5.090E-06	0.000500	0.004	0.00374	0.00374	0.00385	0.00340 to 0.00460	93.5	70.0 to 130	0.00	20.0
BD19309	Molybdenum, Dissolved	mg/L	0.000026	0.0100	0.2	0.254	0.257	0.201	0.170 to 0.230	99.2	70.0 to 130	1.17	20.0
BD19309	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.260	0.260	0.201	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BD19309	Potassium, Dissolved	mg/L	-0.0143	0.367	10.0	15.8	16.3	10.1	8.50 to 11.5	97.6	70.0 to 130	3.12	20.0
BD19309	Potassium, Total	mg/L	0.0195	0.367	10.0	15.7	15.8	10.0	8.50 to 11.5	98.4	70.0 to 130	0.635	20.0
BD19309	Selenium, Dissolved	mg/L	0.0000238	0.00100	0.100	0.109	0.108	0.102	0.0850 to 0.115	109	70.0 to 130	0.922	20.0
BD19309	Selenium, Total	mg/L	-0.0000577	0.00100	0.100	0.0972	0.0984	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.23	20.0
BD19309	Silicon, Dissolved	mg/L	-0.00136	0.0440	1.00	3.65	3.65	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BD19309	Silicon, Total	mg/L	-0.00103	0.0440	1.00	3.71	3.71	0.992	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BD19309	Sodium, Dissolved	mg/L	0.0178	0.0880	5.00	19.0	19.2	4.99	4.25 to 5.75	98.0	70.0 to 130	1.05	20.0
BD19309	Sodium, Total	mg/L	0.00728	0.0880	5.00	19.0	19.0	4.94	4.25 to 5.75	98.0	70.0 to 130	0.00	20.0
BD19317	Sulfate	mg/L	-0.102	2.0	20.0	19.5	20.1	20.0	18.0 to 22.0	97.5	80.0 to 120	3.03	20.0
BD19309	Thallium, Dissolved	mg/L	0.0000022	0.000147	0.100	0.101	0.102	0.0974	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BD19309	Thallium, Total	mg/L	0.0000012	0.000147	0.100	0.0988	0.100	0.103	0.0850 to 0.115	98.8	70.0 to 130	1.21	20.0
BD19315	Total Organic Carbon	mg/L	0.124	1.00	10.0	12.1	11.2	25.3		110	80.0 to 120	7.73	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/18/23 12:10  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:19

**Description:** Greene County Ash Pond - MW-46HO

**Laboratory ID Number:** BD19309

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19309	Alkalinity	mg CaCO3/L					134	51.0	45.0 to 55.0			0.749	10.0
BD19318	Fluoride	mg/L	0.000	0.0200	2.00	2.07	0.000	2.05	1.80 to 2.20	104	80.0 to 120	0.00	20.0
BD19309	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	2.81	0.807	1.83	1.80 to 2.20	96.0	90.0 to 110	9.78	15.0
BD19316	Solids, Dissolved	mg/L	0.0000	25.0			538	53.0	40.0 to 60.0			0.741	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Definitions

**Project Number:** WMWGREAP\_1428

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Budd
Collector	TJ Daugherty	Requested By	Greg Budd
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments: Strong property wells.

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-64HO	10/18/2023	10:47	6	Groundwater		BD19305	<input checked="" type="checkbox"/>
MW-64HO Dup	10/18/2023	10:47	6	Sample Duplicate		BD19306	<input checked="" type="checkbox"/>
EB-1	10/18/2023	11:20	5	Equipment Blank		BD19307	<input checked="" type="checkbox"/>
FB-1	10/18/2023	11:30	5	Field Blank		BD19308	<input checked="" type="checkbox"/>
MW-46HO	10/18/2023	12:10	6	Groundwater		BD19309	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
		10/19/2023 11:16

SmarTroll ID	7586-41445-5-4	Cooler Temp	0.5 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1428	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks





# Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Budd
	Collector TJ Daugherty		Requested By
		Location	Greene Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Strong property wells. Rad MS/MSD @ MW-46HO

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-64HO	10/18/2023	10:47	1	Groundwater		BD19310	<input checked="" type="checkbox"/>
MW-64HO Dup	10/18/2023	10:47	1	Sample Duplicate		BD19311	<input checked="" type="checkbox"/>
EB-1	10/18/2023	11:20	1	Equipment Blank		BD19312	<input checked="" type="checkbox"/>
FB-1	10/18/2023	11:30	1	Field Blank		BD19313	<input checked="" type="checkbox"/>
MW-46HO	10/18/2023	12:10	3	Groundwater		BD19314	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
		10/19/2023 11:16

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1428	pH Strip ID	11044-63391-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks

Alabama Power  
General Test Laboratory  
744 County Road 87, GSC #8  
Calera, AL 35040  
205-664-6001

# *Analytical Report*



**Sample Group :** WMWGREAP\_1427

**Project/Site :** Greene County Ash Pond  
Demopolis, AL 36732

**For :** Southern Company Services  
3535 Colonnade Parkway  
Birmingham, AL 35243

**Attention :** Dustin Brooks & Greg Budd

**Released By :** Brooke Caton  
tbwill@southernco.com  
(205) 664-6101

November 21, 2023

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on October 19, 2023. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114  
Issued By: State of Florida, Department of Health  
Expiration: June 30, 2024

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Quality Control: **Brooke  
Caton**

Digitally signed by Brooke  
Caton  
Date: 2023.11.21  
13:13:49 -06'00'

Supervision: **T Durant  
Maske**

Digitally signed by T Durant Maske  
DN: cn=T Durant Maske, o=T Durant Maske c=US  
United States: |u=US United States  
e=t.maske@alabamapower.com  
Reason: I am the author of this document  
Location:  
Date: 2023-11-21 13:47:06:00



### REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.  
This document shall not be reproduced, except in full, without written consent from  
Alabama Power's General Test Laboratory.



## Case Narrative

Total Metals ICP

Greene Co. Ash Pond

WMWGREAP\_1427

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19315	769502	WMWGREAP_1427
BD19316	769502	WMWGREAP_1427
BD19317	769502	WMWGREAP_1427
BD19318	769502	WMWGREAP_1427

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed, and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any

sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19315	Calcium, Sodium	10.15
BD19316	Calcium, Sodium	10.15

8. The raw data results are shown with dilution factors included.

## Case Narrative

Dissolved Metals ICP

Greene Co. Ash Pond

WMWGREAP\_1427

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19315	769472	WMWGREAP_1427
BD19316	769472	WMWGREAP_1427

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

## Case Narrative

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
    - BD19316 Calcium and Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
  - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19315	Calcium, Sodium	10.15
BD19316	Calcium, Sodium	10.15

8. The raw data results are shown with dilution factors included.

## Case Narrative

Total Metals ICPMS

Greene Co. Ash Pond

WMWGREAP\_1427

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19315	770389	WMWGREAP_1427
BD19316	770389	WMWGREAP_1427
BD19317	770389	WMWGREAP_1427
BD19318	770389	WMWGREAP_1427

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:



Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19315	Manganese	10.15
BD19316	Manganese	10.15

8. The raw data results are shown with dilution factors included.

## Case Narrative

Dissolved Metals ICPMS

Greene Co. Ash Pond

WMWGREAP\_1427

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19315	770352	WMWGREAP_1427
BD19316	770352	WMWGREAP_1427

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

## Case Narrative

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
    - BD19316 Manganese MS/MSD spike levels were less than 30% of the sample concentrations.
  - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19315	Manganese	10.15
BD19316	Manganese	10.15

8. The raw data results are shown with dilution factors included.

# Case Narrative

Mercury

Greene Co. Ash Pond

WMWGREAP\_1427

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19315	769665	WMWGREAP_1427
BD19316	769665	WMWGREAP_1427
BD19317	769665	WMWGREAP_1427
BD19318	769665	WMWGREAP_1427

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

## General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

## Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.

## Case Narrative

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.

## Case Narrative

Total Dissolved Solids

Greene Co. Ash Pond

WMWGREAP\_1427

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19315	769292	WMWGREAP_1427
BD19316	769292	WMWGREAP_1427
BD19317	769292	WMWGREAP_1427
BD19318	769292	WMWGREAP_1427

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was  $\leq 10\%$ .
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue  $< 2.5\text{mg}$  had the maximum volume of 150mL filtered. Affected samples are as follows:
  - BD19317
  - BD19318

## Case Narrative

Alkalinity

Greene Co. Ash Pond

WMWGREAP\_1427

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19315	770642, 770643, 770644, 770645	WMWGREAP_1427
BD19316	770642, 770643, 770644, 770645	WMWGREAP_1427

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
  - A final pH check was analyzed with each batch. The acceptance criteria were met.
  - An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
  - An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.
7. The following samples had pH>10 and/or TDS>500mg/L. Therefore, the calculations for carbonate and bicarbonate are estimates:
    - BD19315
    - BD19316

Anions

Greene Co. Ash Pond

WMWGREAP\_1427

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19315	770161, 770025	WMWGREAP_1427
BD19316	770161, 770025	WMWGREAP_1427
BD19317	770161, 770025	WMWGREAP_1427
BD19318	770161, 770026	WMWGREAP_1427

4. All of the above samples were analyzed and prepared by SM4500 Cl E and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

#### General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

#### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.



## Case Narrative

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BD19315	Chloride, Sulfate	16, 4
BD19316	Chloride, Sulfate	16, 4

8. The raw data results are shown with dilution factors included.

## Anions by Ion Chromatography

Greene Co. Ash Pond

WMWGREAP\_1427

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19315	770902	WMWGREAP_1427
BD19316	770902	WMWGREAP_1427
BD19317	770902	WMWGREAP_1427
BD19318	770902	WMWGREAP_1427

4. All of the above samples were analyzed and prepared by EPA 300.0.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below half the the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

### Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike was analyzed with each batch. All acceptance criteria for accuracy were met.
- A sample duplicate was analyzed with each batch. All acceptance criteria for precision were met.

7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

## Case Narrative

Nitrate-Nitrite

Greene Co. Ash Pond

WMWGREAP\_1427

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19315	769632	WMWGREAP_1427
BD19316	769632	WMWGREAP_1427
BD19317	769632	WMWGREAP_1427
BD19318	769632	WMWGREAP_1427

4. All of the above samples were prepared and analyzed for NO<sub>x</sub> by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

### EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
  - Matrix Specific QC:
    - A sample duplicate was run and criteria for precision was met.
    - A matrix spike was run and criteria for accuracy was met.
7. All samples were analyzed without a dilution factor.
  8. The raw data results are shown with dilution factors included.

## Case Narrative

Total Organic Carbon

Greene Co. Ash Pond

WMWGREAP\_1427

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BD19315	769455	WMWGREAP_1427
BD19316	769455	WMWGREAP_1427
BD19317	769455	WMWGREAP_1427
BD19318	769455	WMWGREAP_1427

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

### General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

### Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
  - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
  8. The raw data results are shown with dilution factors included.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-52HO

**Location Code:** WMWGREAP  
**Collected:** 10/18/23 13:45  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:38

**Laboratory ID Number:** BD19315

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/24/23 08:00	10/25/23 12:12		1.015	1.46	mg/L	0.030000	0.1015	
* Calcium, Total	10/24/23 08:00	10/25/23 16:08		10.15	91.2	mg/L	0.70035	4.06	
* Iron, Total	10/24/23 08:00	10/25/23 12:12		1.015	0.111	mg/L	0.008120	0.0406	
* Lithium, Total	10/24/23 08:00	10/25/23 12:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/24/23 08:00	10/25/23 12:12		1.015	23.2	mg/L	0.021315	0.406	
* Molybdenum, Total	10/24/23 08:00	10/25/23 12:12		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/24/23 08:00	10/25/23 12:12		1	8.88	mg/L			
* Silicon, Total	10/24/23 08:00	10/25/23 12:12		1.015	4.15	mg/L	0.02030	0.25375	
* Sodium, Total	10/24/23 08:00	10/25/23 16:08		10.15	82.4	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>							
* Boron, Dissolved	10/23/23 13:55	10/25/23 11:46		1.015	1.45	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/23/23 13:55	10/25/23 15:56		10.15	89.9	mg/L	0.70035	4.06	
* Iron, Dissolved	10/23/23 13:55	10/25/23 11:46		1.015	0.105	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/23/23 13:55	10/25/23 11:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	10/23/23 13:55	10/25/23 11:46		1.015	23.1	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/23/23 13:55	10/25/23 11:46		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/23/23 13:55	10/25/23 11:46		1	8.86	mg/L			
* Silicon, Dissolved	10/23/23 13:55	10/25/23 11:46		1.015	4.14	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/23/23 13:55	10/25/23 15:56		10.15	78.9	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/24/23 08:00	10/24/23 14:38		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/24/23 08:00	10/24/23 14:38		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/24/23 08:00	10/24/23 14:38		1.015	0.000131	mg/L	0.000112	0.000203	J
* Barium, Total	10/24/23 08:00	10/24/23 14:38		1.015	0.204	mg/L	0.000508	0.001015	
* Beryllium, Total	10/24/23 08:00	10/24/23 14:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/24/23 08:00	10/24/23 14:38		1.015	0.000166	mg/L	0.000068	0.000203	J
* Chromium, Total	10/24/23 08:00	10/24/23 14:38		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/24/23 08:00	10/24/23 14:38		1.015	0.0122	mg/L	0.000068	0.000203	
* Lead, Total	10/24/23 08:00	10/24/23 14:38		1.015	0.0000782	mg/L	0.000068	0.000203	J
* Manganese, Total	10/24/23 08:00	10/24/23 15:01		10.15	10.9	mg/L	0.001522	0.01015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-52HO

**Location Code:** WMWGREAP  
**Collected:** 10/18/23 13:45  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:38

**Laboratory ID Number:** BD19315

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/24/23 08:00	10/24/23 14:38		1.015	4.99	mg/L	0.169505	0.5075	
* Selenium, Total	10/24/23 08:00	10/24/23 14:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/24/23 08:00	10/24/23 14:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/23/23 13:55	10/24/23 15:27		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/23/23 13:55	10/24/23 15:27		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/23/23 13:55	10/24/23 15:27		1.015	0.000140	mg/L	0.000112	0.000203	J
* Barium, Dissolved	10/23/23 13:55	10/24/23 15:27		1.015	0.205	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/23/23 13:55	10/24/23 15:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/23/23 13:55	10/24/23 15:27		1.015	0.000128	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	10/23/23 13:55	10/24/23 15:27		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/23/23 13:55	10/24/23 15:27		1.015	0.0120	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/23/23 13:55	10/24/23 15:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/23/23 13:55	10/24/23 15:41		10.15	10.7	mg/L	0.001522	0.01015	
* Potassium, Dissolved	10/23/23 13:55	10/24/23 15:27		1.015	5.13	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/23/23 13:55	10/24/23 15:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/23/23 13:55	10/24/23 15:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 15:59		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/9/23 09:56	11/9/23 09:56		1	0.0487	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/25/23 11:16	10/25/23 11:16		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	10/31/23 11:05	10/31/23 11:47		1	4.51	SU		2	
* Alkalinity	10/31/23 11:05	10/31/23 11:47		1	267	mg CaCO3/L		1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/19/23 13:50	10/24/23 13:30		1	542	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	10/31/23 11:05	10/31/23 11:47		1	267	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/31/23 11:05	10/31/23 11:47		1	Not Detected	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-52HO

**Location Code:** WMWGREAP  
**Collected:** 10/18/23 13:45  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:38

**Laboratory ID Number:** BD19315

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/23/23 12:24	10/23/23 12:24		1	1.12	mg/L	1.00	2	J
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:04	10/30/23 14:04		16	85.7	mg/L	8.00	16	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 10:44	10/26/23 10:44		4	84.2	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	10/18/23 13:41	10/18/23 13:41			918.83	uS/cm			FA
pH	10/18/23 13:41	10/18/23 13:41			6.16	SU			FA
Temperature	10/18/23 13:41	10/18/23 13:41			19.71	C			FA
Turbidity	10/18/23 13:41	10/18/23 13:41			1.2	NTU			FA
Sulfide	10/18/23 13:41	10/18/23 13:41			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/18/23 13:45  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:38

**Description:** Greene County Ash Pond - MW-52HO

**Laboratory ID Number:** BD19315

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BD19316	Aluminum, Dissolved	mg/L	0.000693	0.0198	0.100	0.0966	0.0964	0.0987	0.0850 to 0.115	96.6	70.0 to 130	0.207	20.0	
BD19318	Aluminum, Total	mg/L	0.000694	0.0198	0.100	0.0963	0.100	0.0971	0.0850 to 0.115	96.3	70.0 to 130	3.77	20.0	
BD19316	Antimony, Dissolved	mg/L	0.000284	0.00100	0.100	0.102	0.0982	0.0954	0.0850 to 0.115	102	70.0 to 130	3.80	20.0	
BD19318	Antimony, Total	mg/L	0.000211	0.00100	0.100	0.0995	0.0994	0.100	0.0850 to 0.115	99.5	70.0 to 130	0.101	20.0	
BD19316	Arsenic, Dissolved	mg/L	0.0000154	0.000200	0.100	0.101	0.101	0.0998	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BD19318	Arsenic, Total	mg/L	0.0000021	0.000200	0.100	0.0986	0.0999	0.0992	0.0850 to 0.115	98.6	70.0 to 130	1.31	20.0	
BD19316	Barium, Dissolved	mg/L	0.0000383	0.00100	0.100	0.309	0.301	0.103	0.0850 to 0.115	101	70.0 to 130	2.62	20.0	
BD19318	Barium, Total	mg/L	0.0000020	0.00100	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0	
BD19316	Beryllium, Dissolved	mg/L	0.0000093	0.000880	0.100	0.0987	0.103	0.0999	0.0850 to 0.115	98.7	70.0 to 130	4.26	20.0	
BD19318	Beryllium, Total	mg/L	0.0000047	0.000880	0.100	0.0935	0.105	0.0969	0.0850 to 0.115	93.5	70.0 to 130	11.6	20.0	
BD19316	Boron, Dissolved	mg/L	0.000136	0.0650	1.00	2.42	2.44	0.969	0.850 to 1.15	98.0	70.0 to 130	0.823	20.0	
BD19318	Boron, Total	mg/L	0.00101	0.0650	1.00	0.983	0.977	0.990	0.850 to 1.15	98.3	70.0 to 130	0.612	20.0	
BD19316	Cadmium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.0977	0.0987	0.0986	0.0850 to 0.115	97.6	70.0 to 130	1.02	20.0	
BD19318	Cadmium, Total	mg/L	0.0000023	0.000147	0.100	0.0958	0.0956	0.0980	0.0850 to 0.115	95.8	70.0 to 130	0.209	20.0	
BD19316	Calcium, Dissolved	mg/L	-0.0161	0.152	5.00	89.6	103	4.79	4.25 to 5.75	-130	70.0 to 130	13.9	20.0	
BD19318	Calcium, Total	mg/L	-0.00690	0.152	5.00	4.86	4.84	4.91	4.25 to 5.75	97.2	70.0 to 130	0.412	20.0	
BD19318	Chloride	mg/L	0.0544	1.00	10.0	10.1	10.1	10.2	9.00 to 11.0	101	80.0 to 120	0.00	20.0	
BD19316	Chromium, Dissolved	mg/L	-0.0000989	0.000440	0.100	0.0973	0.0978	0.102	0.0850 to 0.115	97.3	70.0 to 130	0.513	20.0	
BD19318	Chromium, Total	mg/L	-0.0000825	0.000440	0.100	0.0985	0.104	0.101	0.0850 to 0.115	98.5	70.0 to 130	5.43	20.0	
BD19316	Cobalt, Dissolved	mg/L	-0.0000071	0.000147	0.100	0.112	0.113	0.106	0.0850 to 0.115	99.9	70.0 to 130	0.889	20.0	
BD19318	Cobalt, Total	mg/L	-0.0000064	0.000147	0.100	0.102	0.108	0.105	0.0850 to 0.115	102	70.0 to 130	5.71	20.0	
BD19316	Iron, Dissolved	mg/L	0.00181	0.0176	0.2	0.300	0.295	0.199	0.170 to 0.230	98.0	70.0 to 130	1.68	20.0	
BD19318	Iron, Total	mg/L	0.000748	0.0176	0.2	0.204	0.199	0.200	0.170 to 0.230	102	70.0 to 130	2.48	20.0	
BD19316	Lead, Dissolved	mg/L	0.0000099	0.000147	0.100	0.106	0.0977	0.0962	0.0850 to 0.115	106	70.0 to 130	8.15	20.0	

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/18/23 13:45  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:38

**Description:** Greene County Ash Pond - MW-52HO

**Laboratory ID Number:** BD19315

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19318	Lead, Total	mg/L	0.000068	0.000147	0.100	0.102	0.0992	0.101	0.0850 to 0.115	102	70.0 to 130	2.78	20.0
BD19316	Lithium, Dissolved	mg/L	0.000371	0.0154	0.200	0.201	0.195	0.195	0.170 to 0.230	100	70.0 to 130	3.03	20.0
BD19318	Lithium, Total	mg/L	0.000542	0.0154	0.200	0.200	0.199	0.200	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD19316	Magnesium, Dissolved	mg/L	-0.00508	0.0462	5.00	27.6	27.5	4.91	4.25 to 5.75	92.0	70.0 to 130	0.363	20.0
BD19318	Magnesium, Total	mg/L	-0.0207	0.0462	5.00	5.00	5.01	5.03	4.25 to 5.75	100	70.0 to 130	0.200	20.0
BD19316	Manganese, Dissolved	mg/L	0.0000441	0.00033	0.100	10.6	10.8	0.101	0.0850 to 0.115	-700	70.0 to 130	1.87	20.0
BD19318	Manganese, Total	mg/L	0.0000340	0.00033	0.100	0.0969	0.102	0.0988	0.0850 to 0.115	96.7	70.0 to 130	5.13	20.0
BD19318	Mercury, Total by CVAA	mg/L	5.090E-06	0.000500	0.004	0.00375	0.00376	0.00385	0.00340 to 0.00460	93.8	70.0 to 130	0.266	20.0
BD19316	Molybdenum, Dissolved	mg/L	-0.000140	0.0100	0.2	0.201	0.196	0.200	0.170 to 0.230	100	70.0 to 130	2.52	20.0
BD19318	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.203	0.202	0.205	0.170 to 0.230	102	70.0 to 130	0.494	20.0
BD19316	Potassium, Dissolved	mg/L	-0.0176	0.367	10.0	14.7	14.8	10.2	8.50 to 11.5	96.6	70.0 to 130	0.678	20.0
BD19318	Potassium, Total	mg/L	-0.00145	0.367	10.0	9.87	10.3	9.99	8.50 to 11.5	98.7	70.0 to 130	4.26	20.0
BD19316	Selenium, Dissolved	mg/L	-0.0000588	0.00100	0.100	0.102	0.101	0.0996	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD19318	Selenium, Total	mg/L	-0.0000524	0.00100	0.100	0.0993	0.0998	0.100	0.0850 to 0.115	99.3	70.0 to 130	0.502	20.0
BD19316	Silicon, Dissolved	mg/L	-0.000356	0.0440	1.00	5.08	5.06	0.995	0.850 to 1.15	96.0	70.0 to 130	0.394	20.0
BD19318	Silicon, Total	mg/L	-0.000220	0.0440	1.00	1.01	0.996	1.01	0.850 to 1.15	101	70.0 to 130	1.40	20.0
BD19316	Sodium, Dissolved	mg/L	0.0104	0.0880	5.00	80.2	92.7	4.93	4.25 to 5.75	-76.0	70.0 to 130	14.5	20.0
BD19318	Sodium, Total	mg/L	0.0133	0.0880	5.00	5.01	4.98	5.02	4.25 to 5.75	100	70.0 to 130	0.601	20.0
BD19317	Sulfate	mg/L	-0.102	2.0	20.0	19.5	20.1	20.0	18.0 to 22.0	97.5	80.0 to 120	3.03	20.0
BD19316	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.111	0.100	0.104	0.0850 to 0.115	111	70.0 to 130	10.4	20.0
BD19318	Thallium, Total	mg/L	-0.0000013	0.000147	0.100	0.107	0.100	0.102	0.0850 to 0.115	107	70.0 to 130	6.76	20.0
BD19315	Total Organic Carbon	mg/L	0.124	1.00	10.0	12.1	11.2	25.3		110	80.0 to 120	7.73	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/18/23 13:45  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:38

**Description:** Greene County Ash Pond - MW-52HO

**Laboratory ID Number:** BD19315

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BD19316	Alkalinity	mg CaCO3/L					270	51.0	45.0 to 55.0			1.83	10.0
BD19318	Fluoride	mg/L	0.000	0.0200	2.00	2.07	0.000	2.05	1.80 to 2.20	104	80.0 to 120	0.00	20.0
BD19318	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.99	0.006	1.83	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD19316	Solids, Dissolved	mg/L	0.0000	25.0			538	53.0	40.0 to 60.0			0.741	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-52HO DUP

**Location Code:** WMWGREAP  
**Collected:** 10/18/23 13:45  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:38

**Laboratory ID Number:** BD19316

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/24/23 08:00	10/25/23 12:15		1.015	1.47	mg/L	0.030000	0.1015	
* Calcium, Total	10/24/23 08:00	10/25/23 16:12		10.15	96.1	mg/L	0.70035	4.06	
* Iron, Total	10/24/23 08:00	10/25/23 12:15		1.015	0.109	mg/L	0.008120	0.0406	
* Lithium, Total	10/24/23 08:00	10/25/23 12:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/24/23 08:00	10/25/23 12:15		1.015	23.4	mg/L	0.021315	0.406	
* Molybdenum, Total	10/24/23 08:00	10/25/23 12:15		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/24/23 08:00	10/25/23 12:15		1	8.84	mg/L			
* Silicon, Total	10/24/23 08:00	10/25/23 12:15		1.015	4.13	mg/L	0.02030	0.25375	
* Sodium, Total	10/24/23 08:00	10/25/23 16:12		10.15	86.1	mg/L	0.4060	4.06	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>							
* Boron, Dissolved	10/23/23 13:55	10/25/23 11:49		1.015	1.44	mg/L	0.030000	0.1015	
* Calcium, Dissolved	10/23/23 13:55	10/25/23 15:59		10.15	96.1	mg/L	0.70035	4.06	RA
* Iron, Dissolved	10/23/23 13:55	10/25/23 11:49		1.015	0.104	mg/L	0.008120	0.0406	
* Lithium, Dissolved	10/23/23 13:55	10/25/23 11:49		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	10/23/23 13:55	10/25/23 11:49		1.015	23.0	mg/L	0.021315	0.406	
* Molybdenum, Dissolved	10/23/23 13:55	10/25/23 11:49		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Dissolved (calc.)	10/23/23 13:55	10/25/23 11:49		1	8.82	mg/L			
* Silicon, Dissolved	10/23/23 13:55	10/25/23 11:49		1.015	4.12	mg/L	0.02030	0.25375	
* Sodium, Dissolved	10/23/23 13:55	10/25/23 15:59		10.15	84.0	mg/L	0.4060	4.06	RA
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/24/23 08:00	10/24/23 14:42		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/24/23 08:00	10/24/23 14:42		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/24/23 08:00	10/24/23 14:42		1.015	0.000148	mg/L	0.000112	0.000203	J
* Barium, Total	10/24/23 08:00	10/24/23 14:42		1.015	0.210	mg/L	0.000508	0.001015	
* Beryllium, Total	10/24/23 08:00	10/24/23 14:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/24/23 08:00	10/24/23 14:42		1.015	0.000154	mg/L	0.000068	0.000203	J
* Chromium, Total	10/24/23 08:00	10/24/23 14:42		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/24/23 08:00	10/24/23 14:42		1.015	0.0122	mg/L	0.000068	0.000203	
* Lead, Total	10/24/23 08:00	10/24/23 14:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/24/23 08:00	10/24/23 15:04		10.15	11.3	mg/L	0.001522	0.01015	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-52HO DUP

**Location Code:** WMWGREAP  
**Collected:** 10/18/23 13:45  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:38

**Laboratory ID Number:** BD19316

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Potassium, Total	10/24/23 08:00	10/24/23 14:42		1.015	5.00	mg/L	0.169505	0.5075	
* Selenium, Total	10/24/23 08:00	10/24/23 14:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/24/23 08:00	10/24/23 14:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>							
* Antimony, Dissolved	10/23/23 13:55	10/24/23 15:30		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Dissolved	10/23/23 13:55	10/24/23 15:30		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Dissolved	10/23/23 13:55	10/24/23 15:30		1.015	0.000118	mg/L	0.000112	0.000203	J
* Barium, Dissolved	10/23/23 13:55	10/24/23 15:30		1.015	0.208	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	10/23/23 13:55	10/24/23 15:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	10/23/23 13:55	10/24/23 15:30		1.015	0.000148	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	10/23/23 13:55	10/24/23 15:30		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	10/23/23 13:55	10/24/23 15:30		1.015	0.0121	mg/L	0.000068	0.000203	
* Lead, Dissolved	10/23/23 13:55	10/24/23 15:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	10/23/23 13:55	10/24/23 15:45		10.15	11.3	mg/L	0.001522	0.01015	RA
* Potassium, Dissolved	10/23/23 13:55	10/24/23 15:30		1.015	5.04	mg/L	0.169505	0.5075	
* Selenium, Dissolved	10/23/23 13:55	10/24/23 15:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	10/23/23 13:55	10/24/23 15:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>							
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 16:01		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>							
* Fluoride	11/9/23 10:20	11/9/23 10:20		1	0.0499	mg/L	0.02	0.04	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>							
* Nitrogen, Nitrate/Nitrite	10/25/23 11:17	10/25/23 11:17		1	Not Detected	mg/L as N	0.20	0.3	U
<b>Analytical Method: SM 2320 B</b>		<b>Analyst: ALH</b>							
Alkalinity pH Endpoint	10/31/23 11:05	10/31/23 11:47		1	4.34	SU		2	
* Alkalinity	10/31/23 11:05	10/31/23 11:47		1	275	mg CaCO3/L		1	
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/19/23 13:50	10/24/23 13:30		1	542	mg/L		50	
<b>Analytical Method: SM 4500CO2 D</b>		<b>Analyst: ALH</b>							
* Bicarbonate Alkalinity, (calc.)	10/31/23 11:05	10/31/23 11:47		1	275	mg CaCO3/L		1	A
* Carbonate Alkalinity, (calc.)	10/31/23 11:05	10/31/23 11:47		1	Not Detected	mg CaCO3/L		0.5	A

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond - MW-52HO DUP

**Location Code:** WMWGREAP  
**Collected:** 10/18/23 13:45  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:38

**Laboratory ID Number:** BD19316

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/23/23 13:10	10/23/23 13:10		1	2.78	mg/L	1.00	2	
<b>Analytical Method: SM4500Cl E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:06	10/30/23 14:06		16	91.0	mg/L	8.00	16	
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 10:45	10/26/23 10:45		4	82.8	mg/L	2.4	8	
<b>Analytical Method: Field Measurements</b>		<b>Analyst: TJD</b>							
Conductivity	10/18/23 13:41	10/18/23 13:41			918.83	uS/cm			FA
pH	10/18/23 13:41	10/18/23 13:41			6.16	SU			FA
Temperature	10/18/23 13:41	10/18/23 13:41			19.71	C			FA
Turbidity	10/18/23 13:41	10/18/23 13:41			1.2	NTU			FA
Sulfide	10/18/23 13:41	10/18/23 13:41			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/18/23 13:45  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:38

**Description:** Greene County Ash Pond - MW-52HO DUP

**Laboratory ID Number:** BD19316

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BD19316	Aluminum, Dissolved	mg/L	0.000693	0.0198	0.100	0.0966	0.0964	0.0987	0.0850 to 0.115	96.6	70.0 to 130	0.207	20.0
BD19318	Aluminum, Total	mg/L	0.000694	0.0198	0.100	0.0963	0.100	0.0971	0.0850 to 0.115	96.3	70.0 to 130	3.77	20.0
BD19316	Antimony, Dissolved	mg/L	0.000284	0.00100	0.100	0.102	0.0982	0.0954	0.0850 to 0.115	102	70.0 to 130	3.80	20.0
BD19318	Antimony, Total	mg/L	0.000211	0.00100	0.100	0.0995	0.0994	0.100	0.0850 to 0.115	99.5	70.0 to 130	0.101	20.0
BD19316	Arsenic, Dissolved	mg/L	0.0000154	0.000200	0.100	0.101	0.101	0.0998	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BD19318	Arsenic, Total	mg/L	0.0000021	0.000200	0.100	0.0986	0.0999	0.0992	0.0850 to 0.115	98.6	70.0 to 130	1.31	20.0
BD19316	Barium, Dissolved	mg/L	0.0000383	0.00100	0.100	0.309	0.301	0.103	0.0850 to 0.115	101	70.0 to 130	2.62	20.0
BD19318	Barium, Total	mg/L	0.0000020	0.00100	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD19316	Beryllium, Dissolved	mg/L	0.0000093	0.000880	0.100	0.0987	0.103	0.0999	0.0850 to 0.115	98.7	70.0 to 130	4.26	20.0
BD19318	Beryllium, Total	mg/L	0.0000047	0.000880	0.100	0.0935	0.105	0.0969	0.0850 to 0.115	93.5	70.0 to 130	11.6	20.0
BD19316	Boron, Dissolved	mg/L	0.000136	0.0650	1.00	2.42	2.44	0.969	0.850 to 1.15	98.0	70.0 to 130	0.823	20.0
BD19318	Boron, Total	mg/L	0.00101	0.0650	1.00	0.983	0.977	0.990	0.850 to 1.15	98.3	70.0 to 130	0.612	20.0
BD19316	Cadmium, Dissolved	mg/L	0.0000019	0.000147	0.100	0.0977	0.0987	0.0986	0.0850 to 0.115	97.6	70.0 to 130	1.02	20.0
BD19318	Cadmium, Total	mg/L	0.0000023	0.000147	0.100	0.0958	0.0956	0.0980	0.0850 to 0.115	95.8	70.0 to 130	0.209	20.0
BD19316	Calcium, Dissolved	mg/L	-0.0161	0.152	5.00	89.6	103	4.79	4.25 to 5.75	-130	70.0 to 130	13.9	20.0
BD19318	Calcium, Total	mg/L	-0.00690	0.152	5.00	4.86	4.84	4.91	4.25 to 5.75	97.2	70.0 to 130	0.412	20.0
BD19318	Chloride	mg/L	0.0544	1.00	10.0	10.1	10.1	10.2	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BD19316	Chromium, Dissolved	mg/L	-0.0000989	0.000440	0.100	0.0973	0.0978	0.102	0.0850 to 0.115	97.3	70.0 to 130	0.513	20.0
BD19318	Chromium, Total	mg/L	-0.0000825	0.000440	0.100	0.0985	0.104	0.101	0.0850 to 0.115	98.5	70.0 to 130	5.43	20.0
BD19316	Cobalt, Dissolved	mg/L	-0.0000071	0.000147	0.100	0.112	0.113	0.106	0.0850 to 0.115	99.9	70.0 to 130	0.889	20.0
BD19318	Cobalt, Total	mg/L	-0.0000064	0.000147	0.100	0.102	0.108	0.105	0.0850 to 0.115	102	70.0 to 130	5.71	20.0
BD19316	Iron, Dissolved	mg/L	0.00181	0.0176	0.2	0.300	0.295	0.199	0.170 to 0.230	98.0	70.0 to 130	1.68	20.0
BD19318	Iron, Total	mg/L	0.000748	0.0176	0.2	0.204	0.199	0.200	0.170 to 0.230	102	70.0 to 130	2.48	20.0
BD19316	Lead, Dissolved	mg/L	0.0000099	0.000147	0.100	0.106	0.0977	0.0962	0.0850 to 0.115	106	70.0 to 130	8.15	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/18/23 13:45  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:38

**Description:** Greene County Ash Pond - MW-52HO DUP

**Laboratory ID Number:** BD19316

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BD19318	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.102	0.0992	0.101	0.0850 to 0.115	102	70.0 to 130	2.78	20.0
BD19316	Lithium, Dissolved	mg/L	0.000371	0.0154	0.200	0.201	0.195	0.195	0.170 to 0.230	100	70.0 to 130	3.03	20.0
BD19318	Lithium, Total	mg/L	0.000542	0.0154	0.200	0.200	0.199	0.200	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD19316	Magnesium, Dissolved	mg/L	-0.00508	0.0462	5.00	27.6	27.5	4.91	4.25 to 5.75	92.0	70.0 to 130	0.363	20.0
BD19318	Magnesium, Total	mg/L	-0.0207	0.0462	5.00	5.00	5.01	5.03	4.25 to 5.75	100	70.0 to 130	0.200	20.0
BD19316	Manganese, Dissolved	mg/L	0.0000441	0.00033	0.100	10.6	10.8	0.101	0.0850 to 0.115	-700	70.0 to 130	1.87	20.0
BD19318	Manganese, Total	mg/L	0.0000340	0.00033	0.100	0.0969	0.102	0.0988	0.0850 to 0.115	96.7	70.0 to 130	5.13	20.0
BD19318	Mercury, Total by CVAA	mg/L	5.090E-06	0.000500	0.004	0.00375	0.00376	0.00385	0.00340 to 0.00460	93.8	70.0 to 130	0.266	20.0
BD19316	Molybdenum, Dissolved	mg/L	-0.000140	0.0100	0.2	0.201	0.196	0.200	0.170 to 0.230	100	70.0 to 130	2.52	20.0
BD19318	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.203	0.202	0.205	0.170 to 0.230	102	70.0 to 130	0.494	20.0
BD19316	Potassium, Dissolved	mg/L	-0.0176	0.367	10.0	14.7	14.8	10.2	8.50 to 11.5	96.6	70.0 to 130	0.678	20.0
BD19318	Potassium, Total	mg/L	-0.00145	0.367	10.0	9.87	10.3	9.99	8.50 to 11.5	98.7	70.0 to 130	4.26	20.0
BD19316	Selenium, Dissolved	mg/L	-0.0000588	0.00100	0.100	0.102	0.101	0.0996	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD19318	Selenium, Total	mg/L	-0.0000524	0.00100	0.100	0.0993	0.0998	0.100	0.0850 to 0.115	99.3	70.0 to 130	0.502	20.0
BD19316	Silicon, Dissolved	mg/L	-0.000356	0.0440	1.00	5.08	5.06	0.995	0.850 to 1.15	96.0	70.0 to 130	0.394	20.0
BD19318	Silicon, Total	mg/L	-0.000220	0.0440	1.00	1.01	0.996	1.01	0.850 to 1.15	101	70.0 to 130	1.40	20.0
BD19316	Sodium, Dissolved	mg/L	0.0104	0.0880	5.00	80.2	92.7	4.93	4.25 to 5.75	-76.0	70.0 to 130	14.5	20.0
BD19318	Sodium, Total	mg/L	0.0133	0.0880	5.00	5.01	4.98	5.02	4.25 to 5.75	100	70.0 to 130	0.601	20.0
BD19317	Sulfate	mg/L	-0.102	2.0	20.0	19.5	20.1	20.0	18.0 to 22.0	97.5	80.0 to 120	3.03	20.0
BD19316	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.111	0.100	0.104	0.0850 to 0.115	111	70.0 to 130	10.4	20.0
BD19318	Thallium, Total	mg/L	-0.0000013	0.000147	0.100	0.107	0.100	0.102	0.0850 to 0.115	107	70.0 to 130	6.76	20.0
BD19315	Total Organic Carbon	mg/L	0.124	1.00	10.0	12.1	11.2	25.3		110	80.0 to 120	7.73	20.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.



## Batch QC Summary

**Customer Account:** WMWGREAP  
**Sample Date:** 10/18/23 13:45  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:38

**Description:** Greene County Ash Pond - MW-52HO DUP

**Laboratory ID Number:** BD19316

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19316	Alkalinity	mg CaCO3/L					270	51.0	45.0 to 55.0			1.83	10.0
BD19318	Fluoride	mg/L	0.000	0.0200	2.00	2.07	0.000	2.05	1.80 to 2.20	104	80.0 to 120	0.00	20.0
BD19318	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.99	0.006	1.83	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD19316	Solids, Dissolved	mg/L	0.0000	25.0			538	53.0	40.0 to 60.0			0.741	10.0

**Comments:** Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-1

**Location Code:** WMWGREAPFB  
**Collected:** 10/18/23 14:20  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:38

**Laboratory ID Number:** BD19317

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
<b>Analytical Method: EPA 200.7</b>		<b>Analyst: ABB</b>			<b>Preparation Method: EPA 1638</b>					
* Boron, Total	10/24/23 08:00	10/25/23 12:18		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	10/24/23 08:00	10/25/23 12:18		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	10/24/23 08:00	10/25/23 12:18		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	10/24/23 08:00	10/25/23 12:18		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	10/24/23 08:00	10/25/23 12:18		1.015	Not Detected	mg/L	0.021315	0.406	U	
* Molybdenum, Total	10/24/23 08:00	10/25/23 12:18		1.015	Not Detected	mg/L	0.005075	0.01015	U	
* Silica, Total (calc.)	10/24/23 08:00	10/25/23 12:18		1	Not Detected	mg/L				
* Silicon, Total	10/24/23 08:00	10/25/23 12:18		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	10/24/23 08:00	10/25/23 12:18		1.015	Not Detected	mg/L	0.04060	0.406	U	
<b>Analytical Method: EPA 200.8</b>		<b>Analyst: DLJ</b>			<b>Preparation Method: EPA 1638</b>					
* Antimony, Total	10/24/23 08:00	10/24/23 14:46		1.015	Not Detected	mg/L	0.000710	0.001015	U	
* Aluminum, Total	10/24/23 08:00	10/24/23 14:46		1.015	Not Detected	mg/L	0.009135	0.05075	U	
* Arsenic, Total	10/24/23 08:00	10/24/23 14:46		1.015	Not Detected	mg/L	0.000112	0.000203	U	
* Barium, Total	10/24/23 08:00	10/24/23 14:46		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	10/24/23 08:00	10/24/23 14:46		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	10/24/23 08:00	10/24/23 14:46		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	10/24/23 08:00	10/24/23 14:46		1.015	0.000249	mg/L	0.000203	0.001015	J	
* Cobalt, Total	10/24/23 08:00	10/24/23 14:46		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	10/24/23 08:00	10/24/23 14:46		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	10/24/23 08:00	10/24/23 14:46		1.015	0.000462	mg/L	0.000152	0.001015	J	
* Potassium, Total	10/24/23 08:00	10/24/23 14:46		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	10/24/23 08:00	10/24/23 14:46		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	10/24/23 08:00	10/24/23 14:46		1.015	Not Detected	mg/L	0.000068	0.000203	U	
<b>Analytical Method: EPA 245.1</b>		<b>Analyst: ABB</b>								
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 16:04		1	Not Detected	mg/L	0.0003	0.0005	U	
<b>Analytical Method: EPA 300.0</b>		<b>Analyst: TJW</b>								
* Fluoride	11/9/23 11:30	11/9/23 11:30		1	Not Detected	mg/L	0.02	0.04	U	
<b>Analytical Method: EPA 353.2</b>		<b>Analyst: CES</b>								
* Nitrogen, Nitrate/Nitrite	10/25/23 11:18	10/25/23 11:18		1	Not Detected	mg/L as N	0.20	0.3	U	

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Field Blank-1

**Location Code:** WMWGREAPFB  
**Collected:** 10/18/23 14:20  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:38

**Laboratory ID Number:** BD19317

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/19/23 13:50	10/24/23 13:30		1	Not Detected	mg/L		25	U
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/23/23 13:27	10/23/23 13:27		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500CI E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:00	10/30/23 14:00		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 10:37	10/26/23 10:37		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB  
**Sample Date:** 10/18/23 14:20  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:38

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD19317

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19318	Aluminum, Total	mg/L	0.000694	0.0198	0.100	0.0963	0.100	0.0971	0.0850 to 0.115	96.3	70.0 to 130	3.77	20.0
BD19318	Antimony, Total	mg/L	0.000211	0.00100	0.100	0.0995	0.0994	0.100	0.0850 to 0.115	99.5	70.0 to 130	0.101	20.0
BD19318	Arsenic, Total	mg/L	0.0000021	0.000200	0.100	0.0986	0.0999	0.0992	0.0850 to 0.115	98.6	70.0 to 130	1.31	20.0
BD19318	Barium, Total	mg/L	0.0000020	0.00100	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD19318	Beryllium, Total	mg/L	0.0000047	0.000880	0.100	0.0935	0.105	0.0969	0.0850 to 0.115	93.5	70.0 to 130	11.6	20.0
BD19318	Boron, Total	mg/L	0.00101	0.0650	1.00	0.983	0.977	0.990	0.850 to 1.15	98.3	70.0 to 130	0.612	20.0
BD19318	Cadmium, Total	mg/L	0.0000023	0.000147	0.100	0.0958	0.0956	0.0980	0.0850 to 0.115	95.8	70.0 to 130	0.209	20.0
BD19318	Calcium, Total	mg/L	-0.00690	0.152	5.00	4.86	4.84	4.91	4.25 to 5.75	97.2	70.0 to 130	0.412	20.0
BD19318	Chloride	mg/L	0.0544	1.00	10.0	10.1	10.1	10.2	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BD19318	Chromium, Total	mg/L	-0.0000825	0.000440	0.100	0.0985	0.104	0.101	0.0850 to 0.115	98.5	70.0 to 130	5.43	20.0
BD19318	Cobalt, Total	mg/L	-0.0000064	0.000147	0.100	0.102	0.108	0.105	0.0850 to 0.115	102	70.0 to 130	5.71	20.0
BD19318	Iron, Total	mg/L	0.000748	0.0176	0.2	0.204	0.199	0.200	0.170 to 0.230	102	70.0 to 130	2.48	20.0
BD19318	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.102	0.0992	0.101	0.0850 to 0.115	102	70.0 to 130	2.78	20.0
BD19318	Lithium, Total	mg/L	0.000542	0.0154	0.200	0.200	0.199	0.200	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD19318	Magnesium, Total	mg/L	-0.0207	0.0462	5.00	5.00	5.01	5.03	4.25 to 5.75	100	70.0 to 130	0.200	20.0
BD19318	Manganese, Total	mg/L	0.0000340	0.00033	0.100	0.0969	0.102	0.0988	0.0850 to 0.115	96.7	70.0 to 130	5.13	20.0
BD19318	Mercury, Total by CVAA	mg/L	5.090E-06	0.000500	0.004	0.00375	0.00376	0.00385	0.00340 to 0.00460	93.8	70.0 to 130	0.266	20.0
BD19318	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.203	0.202	0.205	0.170 to 0.230	102	70.0 to 130	0.494	20.0
BD19318	Potassium, Total	mg/L	-0.00145	0.367	10.0	9.87	10.3	9.99	8.50 to 11.5	98.7	70.0 to 130	4.26	20.0
BD19318	Selenium, Total	mg/L	-0.0000524	0.00100	0.100	0.0993	0.0998	0.100	0.0850 to 0.115	99.3	70.0 to 130	0.502	20.0
BD19318	Silicon, Total	mg/L	-0.000220	0.0440	1.00	1.01	0.996	1.01	0.850 to 1.15	101	70.0 to 130	1.40	20.0
BD19318	Sodium, Total	mg/L	0.0133	0.0880	5.00	5.01	4.98	5.02	4.25 to 5.75	100	70.0 to 130	0.601	20.0
BD19317	Sulfate	mg/L	-0.102	2.0	20.0	19.5	20.1	20.0	18.0 to 22.0	97.5	80.0 to 120	3.03	20.0
BD19318	Thallium, Total	mg/L	-0.0000013	0.000147	0.100	0.107	0.100	0.102	0.0850 to 0.115	107	70.0 to 130	6.76	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPFB  
**Sample Date:** 10/18/23 14:20  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:38

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD19317

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BD19315	Total Organic Carbon	mg/L	0.124	1.00	10.0	12.1	11.2	25.3		110	80.0 to 120	7.73	20.0

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**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPFB

**Sample Date:** 10/18/23 14:20

**Customer ID:**

**Delivery Date:** 10/19/23 12:38

**Description:** Greene County Ash Pond Field Blank-1

**Laboratory ID Number:** BD19317

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19318	Fluoride	mg/L	0.000	0.0200	2.00	2.07	0.000	2.05	1.80 to 2.20	104	80.0 to 120	0.00	20.0
BD19318	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.99	0.006	1.83	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD19316	Solids, Dissolved	mg/L	0.0000	25.0			538	53.0	40.0 to 60.0			0.741	10.0

---

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Equipment Blank-1

**Location Code:** WMWGREAPEB  
**Collected:** 10/18/23 14:30  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:38

**Laboratory ID Number:** BD19318

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: EPA 200.7</b>			<b>Analyst: ABB</b>		<b>Preparation Method: EPA 1638</b>				
* Boron, Total	10/24/23 08:00	10/25/23 12:21		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	10/24/23 08:00	10/25/23 12:21		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	10/24/23 08:00	10/25/23 12:21		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	10/24/23 08:00	10/25/23 12:21		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	10/24/23 08:00	10/25/23 12:21		1.015	Not Detected	mg/L	0.021315	0.406	U
* Molybdenum, Total	10/24/23 08:00	10/25/23 12:21		1.015	Not Detected	mg/L	0.005075	0.01015	U
* Silica, Total (calc.)	10/24/23 08:00	10/25/23 12:21		1	Not Detected	mg/L			
* Silicon, Total	10/24/23 08:00	10/25/23 12:21		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	10/24/23 08:00	10/25/23 12:21		1.015	Not Detected	mg/L	0.04060	0.406	U
<b>Analytical Method: EPA 200.8</b>			<b>Analyst: DLJ</b>		<b>Preparation Method: EPA 1638</b>				
* Antimony, Total	10/24/23 08:00	10/24/23 14:50		1.015	Not Detected	mg/L	0.000710	0.001015	U
* Aluminum, Total	10/24/23 08:00	10/24/23 14:50		1.015	Not Detected	mg/L	0.009135	0.05075	U
* Arsenic, Total	10/24/23 08:00	10/24/23 14:50		1.015	Not Detected	mg/L	0.000112	0.000203	U
* Barium, Total	10/24/23 08:00	10/24/23 14:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	10/24/23 08:00	10/24/23 14:50		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	10/24/23 08:00	10/24/23 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	10/24/23 08:00	10/24/23 14:50		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	10/24/23 08:00	10/24/23 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	10/24/23 08:00	10/24/23 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	10/24/23 08:00	10/24/23 14:50		1.015	0.000153	mg/L	0.000152	0.001015	J
* Potassium, Total	10/24/23 08:00	10/24/23 14:50		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	10/24/23 08:00	10/24/23 14:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	10/24/23 08:00	10/24/23 14:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
<b>Analytical Method: EPA 245.1</b>			<b>Analyst: ABB</b>						
* Mercury, Total by CVAA	10/27/23 11:43	10/27/23 16:06		1	Not Detected	mg/L	0.0003	0.0005	U
<b>Analytical Method: EPA 300.0</b>			<b>Analyst: TJW</b>						
* Fluoride	11/8/23 12:56	11/8/23 12:56		1	Not Detected	mg/L	0.02	0.04	U
<b>Analytical Method: EPA 353.2</b>			<b>Analyst: CES</b>						
* Nitrogen, Nitrate/Nitrite	10/25/23 11:18	10/25/23 11:18		1	Not Detected	mg/L as N	0.20	0.3	U

MDL's and RL's are adjusted for sample dilution, as applicable

**Comments:**

# Certificate Of Analysis

**Description:** Greene County Ash Pond Equipment Blank-1

**Location Code:** WMWGREAPEB  
**Collected:** 10/18/23 14:30  
**Customer ID:**  
**Submittal Date:** 10/19/23 12:38

**Laboratory ID Number:** BD19318

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
<b>Analytical Method: SM 2540C</b>		<b>Analyst: CNJ</b>							
* Solids, Dissolved	10/19/23 13:50	10/24/23 13:30		1	Not Detected	mg/L		25	U
<b>Analytical Method: SM 5310 B</b>		<b>Analyst: JLR</b>							
* Total Organic Carbon	10/23/23 13:41	10/23/23 13:41		1	Not Detected	mg/L	1.00	2	U
<b>Analytical Method: SM4500CI E</b>		<b>Analyst: JCC</b>							
* Chloride	10/30/23 14:01	10/30/23 14:01		1	Not Detected	mg/L	0.50	1	U
<b>Analytical Method: SM4500SO4 E 2011</b>		<b>Analyst: JCC</b>							
* Sulfate	10/26/23 10:58	10/26/23 10:58		1	Not Detected	mg/L	0.6	2	U

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MDL's and RL's are adjusted for sample dilution, as applicable

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**Comments:**



# Batch QC Summary

**Customer Account:** WMWGREAPEB  
**Sample Date:** 10/18/23 14:30  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:38

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD19318

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BD19318	Aluminum, Total	mg/L	0.000694	0.0198	0.100	0.0963	0.100	0.0971	0.0850 to 0.115	96.3	70.0 to 130	3.77	20.0
BD19318	Antimony, Total	mg/L	0.000211	0.00100	0.100	0.0995	0.0994	0.100	0.0850 to 0.115	99.5	70.0 to 130	0.101	20.0
BD19318	Arsenic, Total	mg/L	0.0000021	0.000200	0.100	0.0986	0.0999	0.0992	0.0850 to 0.115	98.6	70.0 to 130	1.31	20.0
BD19318	Barium, Total	mg/L	0.0000020	0.00100	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BD19318	Beryllium, Total	mg/L	0.0000047	0.000880	0.100	0.0935	0.105	0.0969	0.0850 to 0.115	93.5	70.0 to 130	11.6	20.0
BD19318	Boron, Total	mg/L	0.00101	0.0650	1.00	0.983	0.977	0.990	0.850 to 1.15	98.3	70.0 to 130	0.612	20.0
BD19318	Cadmium, Total	mg/L	0.0000023	0.000147	0.100	0.0958	0.0956	0.0980	0.0850 to 0.115	95.8	70.0 to 130	0.209	20.0
BD19318	Calcium, Total	mg/L	-0.00690	0.152	5.00	4.86	4.84	4.91	4.25 to 5.75	97.2	70.0 to 130	0.412	20.0
BD19318	Chloride	mg/L	0.0544	1.00	10.0	10.1	10.1	10.2	9.00 to 11.0	101	80.0 to 120	0.00	20.0
BD19318	Chromium, Total	mg/L	-0.0000825	0.000440	0.100	0.0985	0.104	0.101	0.0850 to 0.115	98.5	70.0 to 130	5.43	20.0
BD19318	Cobalt, Total	mg/L	-0.0000064	0.000147	0.100	0.102	0.108	0.105	0.0850 to 0.115	102	70.0 to 130	5.71	20.0
BD19318	Iron, Total	mg/L	0.000748	0.0176	0.2	0.204	0.199	0.200	0.170 to 0.230	102	70.0 to 130	2.48	20.0
BD19318	Lead, Total	mg/L	0.0000068	0.000147	0.100	0.102	0.0992	0.101	0.0850 to 0.115	102	70.0 to 130	2.78	20.0
BD19318	Lithium, Total	mg/L	0.000542	0.0154	0.200	0.200	0.199	0.200	0.170 to 0.230	100	70.0 to 130	0.501	20.0
BD19318	Magnesium, Total	mg/L	-0.0207	0.0462	5.00	5.00	5.01	5.03	4.25 to 5.75	100	70.0 to 130	0.200	20.0
BD19318	Manganese, Total	mg/L	0.0000340	0.00033	0.100	0.0969	0.102	0.0988	0.0850 to 0.115	96.7	70.0 to 130	5.13	20.0
BD19318	Mercury, Total by CVAA	mg/L	5.090E-06	0.000500	0.004	0.00375	0.00376	0.00385	0.00340 to 0.00460	93.8	70.0 to 130	0.266	20.0
BD19318	Molybdenum, Total	mg/L	0.000	0.0100	0.2	0.203	0.202	0.205	0.170 to 0.230	102	70.0 to 130	0.494	20.0
BD19318	Potassium, Total	mg/L	-0.00145	0.367	10.0	9.87	10.3	9.99	8.50 to 11.5	98.7	70.0 to 130	4.26	20.0
BD19318	Selenium, Total	mg/L	-0.0000524	0.00100	0.100	0.0993	0.0998	0.100	0.0850 to 0.115	99.3	70.0 to 130	0.502	20.0
BD19318	Silicon, Total	mg/L	-0.000220	0.0440	1.00	1.01	0.996	1.01	0.850 to 1.15	101	70.0 to 130	1.40	20.0
BD19318	Sodium, Total	mg/L	0.0133	0.0880	5.00	5.01	4.98	5.02	4.25 to 5.75	100	70.0 to 130	0.601	20.0
BD19568	Sulfate	mg/L	-0.0948	2.0	320	506	518	19.9	18.0 to 22.0	97.8	80.0 to 120	2.34	20.0
BD19318	Thallium, Total	mg/L	-0.0000013	0.000147	0.100	0.107	0.100	0.102	0.0850 to 0.115	107	70.0 to 130	6.76	20.0

**Comments:**

# Batch QC Summary

**Customer Account:** WMWGREAPEB  
**Sample Date:** 10/18/23 14:30  
**Customer ID:**  
**Delivery Date:** 10/19/23 12:38

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD19318

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BD19315	Total Organic Carbon	mg/L	0.124	1.00	10.0	12.1	11.2	25.3		110	80.0 to 120	7.73	20.0

---

**Comments:**

## Batch QC Summary

**Customer Account:** WMWGREAPEB

**Sample Date:** 10/18/23 14:30

**Customer ID:**

**Delivery Date:** 10/19/23 12:38

**Description:** Greene County Ash Pond Equipment Blank-1

**Laboratory ID Number:** BD19318

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BD19318	Fluoride	mg/L	0.000	0.0200	2.00	2.07	0.000	2.05	1.80 to 2.20	104	80.0 to 120	0.00	20.0
BD19318	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.02	0.200	2.00	1.99	0.006	1.83	1.80 to 2.20	99.5	90.0 to 110	0.00	15.0
BD19316	Solids, Dissolved	mg/L	0.0000	25.0			538	53.0	40.0 to 60.0			0.741	10.0

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**Comments:**

# Definitions

**Project Number:** WMWGREAP\_1427

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
A	Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are estimates due to pH>10SU and/or TDS>500mg/L.
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



# Chain of Custody

## Groundwater

APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Budd
Collector	TJ Daugherty	Requested By	Greg Budd
		Location	Greene Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite, Nitrate; TOC	250 mL	6	Anions	500 mL	8	N/A	N/A

Comments: Land Trust Wells; updated sample event to 1427 10/19/23 1331

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-52HO	10/18/2023	13:45	6	Groundwater		BD19315	<input checked="" type="checkbox"/>
MW-52HO Dup	10/18/2023	13:45	6	Sample Duplicate		BD19316	<input checked="" type="checkbox"/>
FB-1	10/18/2023	14:20	5	Field Blank		BD19317	<input checked="" type="checkbox"/>
EB-1	10/18/2023	14:30	5	Equipment Blank		BD19318	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
		10/19/2023 11:15

SmarTroll ID	7586-41445-5-4	Cooler Temp	0.5 °C
Turbidity ID	4677-23343-4-2	Thermometer ID	10614-61208-2-1
Sample Event	1427	pH Strip ID	11044-63392-10-3

Bottles/Pre-Preserved Bottles are provided by the GTL.  
 Total Metals and Alkalinity are not performed on Dissolved Sets  
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



**Chain of Custody**  
**Groundwater**  
APC General Testing Laboratory

Field Complete  
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Budd
	Collector: TJ Daugherty		Requested By
		Location	Greene Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	500 mL	8 N/A	N/A

Comments: Land Trust Wells. Rad MS/MSD @ MW-52HO; updated sample event to 1427 10/19/23 1331

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id	pH Check
MW-52HO	10/18/2023	13:45	3	Groundwater		BD19324	<input checked="" type="checkbox"/>
MW-52HO Dup	10/18/2023	13:45	1	Sample Duplicate		BD19320	<input checked="" type="checkbox"/>
FB-1	10/18/2023	14:20	1	Field Blank		BD19321	<input checked="" type="checkbox"/>
EB-1	10/18/2023	14:30	1	Equipment Blank		BD19322	<input checked="" type="checkbox"/>
							<input type="checkbox"/>
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Relinquished By	Received By	Date/Time
		10/19/2023 11:15

SmarTroll ID	7586-41445-5-4	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2	Thermometer ID	N/A
Sample Event	1427	pH Strip ID	11044-63392-10-3

Bottles/Pre-Preserved Bottles are provided by the GTL.  
Total Metals and Alkalinity are not performed on Dissolved Sets  
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



December 06, 2023

Brooke Caton  
Alabama Power  
744 Highway 87  
Calera, AL 35040

RE: Project: WMWGREAP\_1430  
Pace Project No.: 30636707

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 06, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Skyler C. Richmond  
skyler.richmond@pacelabs.com  
(724)850-5600  
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power  
Renee Jernigan, Alabama Power



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



## CERTIFICATIONS

Project: WMWGREAP\_1430  
Pace Project No.: 30636707

---

### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
ANABISO/IEC 17025:2017 Rad Cert#: L24170  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 2950  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA010  
Louisiana DEQ/TNI Certification #: 04086  
Maine Certification #: 2023021  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572023-03  
New Hampshire/TNI Certification #: 297622  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-015  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: TN02867  
Texas/TNI Certification #: T104704188-22-18  
Utah/TNI Certification #: PA014572223-14  
USDA Soil Permit #: 525-23-67-77263  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: WMWGREAP\_1430  
Pace Project No.: 30636707

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30636707001	BD19604 MW-1	Water	10/24/23 10:30	11/06/23 10:20
30636707002	BD19605 MW-1 Dup	Water	10/24/23 10:30	11/06/23 10:20
30636707003	BD19606 FB-4	Water	10/24/23 10:50	11/06/23 10:20
30636707004	BD19607 MW-2	Water	10/24/23 12:47	11/06/23 10:20
30636707005	BD19608 MW-3	Water	10/24/23 13:32	11/06/23 10:20
30636707006	BD19609 PZ-4	Water	10/24/23 14:45	11/06/23 10:20
30636707007	BD19610 PZ-4 Dup	Water	10/24/23 14:45	11/06/23 10:20
30636707008	BD19611 FB-5	Water	10/24/23 15:30	11/06/23 10:20
30636707009	BD19612 MW-5	Water	10/24/23 16:08	11/06/23 10:20
30636707010	BD19613 MW-18	Water	10/23/23 13:12	11/06/23 10:20
30636707011	BD19614 MW-38H	Water	10/23/23 14:45	11/06/23 10:20
30636707012	BD19615 MW-17	Water	10/23/23 15:45	11/06/23 10:20
30636707013	BD19616 MW-17 Dup	Water	10/23/23 15:45	11/06/23 10:20
30636707014	BD19617 MW-26	Water	10/24/23 09:13	11/06/23 10:20
30636707015	BD19618 MW-27	Water	10/24/23 10:05	11/06/23 10:20
30636707016	BD19619 MW-28	Water	10/24/23 11:00	11/06/23 10:20
30636707017	BD19620 MW-29	Water	10/24/23 11:57	11/06/23 10:20
30636707018	BD19621 MW-30	Water	10/24/23 12:45	11/06/23 10:20
30636707019	BD19622 MW-40H	Water	10/24/23 14:45	11/06/23 10:20
30636707020	BD19623 MW-40H Dup	Water	10/24/23 14:45	11/06/23 10:20
30636707021	BD19624 MW-15	Water	10/24/23 16:05	11/06/23 10:20
30636707022	BD19625 FB-3	Water	10/24/23 16:30	11/06/23 10:20
30636707023	BD19777 MW-6	Water	10/25/23 12:35	11/06/23 10:20
30636707024	BD19777 MW-6 MS	Water	10/25/23 12:35	11/06/23 10:20
30636707025	BD19777 MW-6 MSD	Water	10/25/23 12:35	11/06/23 10:20
30636707026	BD19778 MW-7	Water	10/25/23 14:22	11/06/23 10:20
30636707027	BD19779 MW-8	Water	10/25/23 15:00	11/06/23 10:20
30636707028	BD19779 MW-8 MS	Water	10/25/23 15:00	11/06/23 10:20
30636707029	BD19779 MW-8 MSD	Water	10/25/23 15:00	11/06/23 10:20
30636707030	BD19780 MW-9	Water	10/25/23 15:52	11/06/23 10:20
30636707031	BD19781 MW-11	Water	10/25/23 16:33	11/06/23 10:20
30636707032	BD19782 MW-35H	Water	10/24/23 16:11	11/06/23 10:20
30636707033	BD19783 MW-43H	Water	10/25/23 09:00	11/06/23 10:20
30636707034	BD19784 MW-42H	Water	10/25/23 09:55	11/06/23 10:20
30636707035	BD19785 MW-49H	Water	10/25/23 10:43	11/06/23 10:20
30636707036	BD19786 MW-48H	Water	10/25/23 11:33	11/06/23 10:20
30636707037	BD19786 MW-48H MS	Water	10/25/23 11:33	11/06/23 10:20

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## SAMPLE SUMMARY

Project: WMWGREAP\_1430  
Pace Project No.: 30636707

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30636707038	BD19786 MW-48H MSD	Water	10/25/23 11:33	11/06/23 10:20
30636707039	BD19787 MW-12	Water	10/25/23 13:19	11/06/23 10:20
30636707040	BD19788 MW-21	Water	10/25/23 14:30	11/06/23 10:20
30636707041	BD19789 MW-13	Water	10/25/23 16:05	11/06/23 10:20
30636707042	BD19790 MW-37H	Water	10/25/23 09:25	11/06/23 10:20
30636707043	BD19791 MW-16	Water	10/25/23 10:45	11/06/23 10:20
30636707044	BD19792 MW-24	Water	10/25/23 13:00	11/06/23 10:20
30636707045	BD19793 MW-23	Water	10/25/23 13:55	11/06/23 10:20
30636707046	BD19794 MW-36H	Water	10/25/23 16:25	11/06/23 10:20
30636707047	BD19795 FB-2	Water	10/25/23 16:55	11/06/23 10:20
30636707048	BD20106 MW-31	Water	10/30/23 14:44	11/06/23 10:20
30636707049	BD20107 MW-33	Water	10/30/23 15:38	11/06/23 10:20
30636707050	BD20108 MW-32	Water	10/30/23 16:29	11/06/23 10:20
30636707051	BD20109 FB-1	Water	10/30/23 16:55	11/06/23 10:20
30636707052	BD20110 MW-44H	Water	10/31/23 10:01	11/06/23 10:20
30636707053	BD20111 MW-54H	Water	10/31/23 10:59	11/06/23 10:20
30636707054	BD20112 MW-53H	Water	10/31/23 12:29	11/06/23 10:20
30636707055	BD20113 MW-57H	Water	10/31/23 13:20	11/06/23 10:20
30636707056	BD20114 MW-45H	Water	10/31/23 14:27	11/06/23 10:20
30636707057	BD20115 MW-41H	Water	10/31/23 15:17	11/06/23 10:20
30636707058	BD20116 MW-41H Dup	Water	10/31/23 15:17	11/06/23 10:20
30636707059	BD20117 MW-39H	Water	10/31/23 16:17	11/06/23 10:20
30636707060	BD20118 MW-10	Water	11/01/23 11:10	11/06/23 10:20
30636707061	BD20119 MW-14	Water	11/01/23 11:57	11/06/23 10:20
30636707062	BD20120 MW-25	Water	11/01/23 13:05	11/06/23 10:20
30636707063	BD20121 MW-34HA	Water	11/01/23 14:15	11/06/23 10:20
30636707064	BD20122 EB-1	Water	11/01/23 14:45	11/06/23 10:20

## REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30636707001	BD19604 MW-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707002	BD19605 MW-1 Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707003	BD19606 FB-4	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707004	BD19607 MW-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707005	BD19608 MW-3	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707006	BD19609 PZ-4	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707007	BD19610 PZ-4 Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707008	BD19611 FB-5	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707009	BD19612 MW-5	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707010	BD19613 MW-18	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707011	BD19614 MW-38H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707012	BD19615 MW-17	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707013	BD19616 MW-17 Dup	EPA 9315	SLC	1	PASI-PA

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**SAMPLE ANALYTE COUNT**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30636707014	BD19617 MW-26	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707015	BD19618 MW-27	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707016	BD19619 MW-28	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707017	BD19620 MW-29	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707018	BD19621 MW-30	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707019	BD19622 MW-40H	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707020	BD19623 MW-40H Dup	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707021	BD19624 MW-15	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707022	BD19625 FB-3	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707023	BD19777 MW-6	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707024	BD19777 MW-6 MS	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707025	BD19777 MW-6 MSD	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707026	BD19778 MW-7	EPA 9320	VAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30636707027	BD19779 MW-8	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30636707028	BD19779 MW-8 MS	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707029	BD19779 MW-8 MSD	EPA 9320	JJS1	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707030	BD19780 MW-9	EPA 9320	JJS1	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707031	BD19781 MW-11	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707032	BD19782 MW-35H	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30636707033	BD19783 MW-43H	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707034	BD19784 MW-42H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707035	BD19785 MW-49H	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30636707036	BD19786 MW-48H	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30636707037	BD19786 MW-48H MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30636707038	BD19786 MW-48H MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
30636707039	BD19787 MW-12	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30636707040	BD19788 MW-21	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707041	BD19789 MW-13	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707042	BD19790 MW-37H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707043	BD19791 MW-16	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707044	BD19792 MW-24	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707045	BD19793 MW-23	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707046	BD19794 MW-36H	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707047	BD19795 FB-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707048	BD20106 MW-31	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707049	BD20107 MW-33	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636707050	BD20108 MW-32	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30636707051	BD20109 FB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
30636707052	BD20110 MW-44H	EPA 9315	SLC	1	PASI-PA

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30636707053	BD20111 MW-54H	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707054	BD20112 MW-53H	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707055	BD20113 MW-57H	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707056	BD20114 MW-45H	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707057	BD20115 MW-41H	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707058	BD20116 MW-41H Dup	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707059	BD20117 MW-39H	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707060	BD20118 MW-10	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707061	BD20119 MW-14	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707062	BD20120 MW-25	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707063	BD20121 MW-34HA	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
30636707064	BD20122 EB-1	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA

**REPORT OF LABORATORY ANALYSIS**

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### SAMPLE ANALYTE COUNT

Project: WMWGREAP\_1430  
Pace Project No.: 30636707

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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	LAL	1	PASI-PA

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PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1430  
Pace Project No.: 30636707

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**Method:** EPA 9315  
**Description:** 9315 Total Radium  
**Client:** Alabama Power  
**Date:** December 06, 2023

### General Information:

64 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

Analyte Comments:

QC Batch: 628042

1c: Matrix spike duplicate recovery low and outside of the acceptance criteria for MS recovery. Results reported based on acceptable RPD for the RQS set.

- BD19777 MW-6 MSD (Lab ID: 30636707025)
  - Radium-226

QC Batch: 628043

2c: Matrix spike recovery low and outside of the default acceptance criteria for MS recovery. Results reported based on acceptable RPD for the RQS set.

- BD19779 MW-8 MS (Lab ID: 30636707028)
  - Radium-226

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1430  
Pace Project No.: 30636707

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**Method:** EPA 9320  
**Description:** 9320 Radium 228  
**Client:** Alabama Power  
**Date:** December 06, 2023

### General Information:

64 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1430  
Pace Project No.: 30636707

---

**Method:** Total Radium Calculation  
**Description:** Total Radium 228+226  
**Client:** Alabama Power  
**Date:** December 06, 2023

**General Information:**

58 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD19604 MW-1**      **Lab ID: 30636707001**      Collected: 10/24/23 10:30      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.564 ± 0.296 (0.425)</b> <b>C:97% T:NA</b>	pCi/L	11/30/23 10:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.18 ± 0.427 (0.610)</b> <b>C:88% T:86%</b>	pCi/L	11/21/23 11:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.74 ± 0.723 (1.04)</b>	pCi/L	12/01/23 14:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.294U ± 0.253 (0.474)</b> <b>C:97% T:NA</b>	pCi/L	11/30/23 10:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.465U ± 0.342 (0.666)</b> <b>C:88% T:86%</b>	pCi/L	11/21/23 11:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.759U ± 0.595 (1.14)</b>	pCi/L	12/01/23 14:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BD19606 FB-4</b> <b>Lab ID: 30636707003</b> Collected: 10/24/23 10:50      Received: 11/06/23 10:20      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.149U ± 0.214 (0.463)</b> <b>C:98% T:NA</b>	pCi/L	11/30/23 10:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.173U ± 0.322 (0.708)</b> <b>C:86% T:80%</b>	pCi/L	11/21/23 11:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.322U ± 0.536 (1.17)</b>	pCi/L	12/01/23 14:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.497 ± 0.296 (0.465)</b> <b>C:96% T:NA</b>	pCi/L	11/30/23 10:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.805 ± 0.402 (0.682)</b> <b>C:86% T:81%</b>	pCi/L	11/21/23 11:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.30 ± 0.698 (1.15)</b>	pCi/L	12/01/23 14:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.322U ± 0.231 (0.363)</b> <b>C:99% T:NA</b>	pCi/L	11/30/23 10:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.296U ± 0.335 (0.701)</b> <b>C:85% T:82%</b>	pCi/L	11/21/23 11:13	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.618U ± 0.566 (1.06)</b>	pCi/L	12/01/23 14:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.521 ± 0.295 (0.414)</b> <b>C:85% T:NA</b>	pCi/L	11/30/23 10:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.30 ± 0.456 (0.628)</b> <b>C:85% T:84%</b>	pCi/L	11/21/23 11:13	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.82 ± 0.751 (1.04)</b>	pCi/L	12/01/23 14:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD19610 PZ-4 Dup**      **Lab ID: 30636707007**      Collected: 10/24/23 14:45      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.529 ± 0.291 (0.380)</b> <b>C:89% T:NA</b>	pCi/L	11/30/23 11:53	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.984 ± 0.422 (0.675)</b> <b>C:84% T:84%</b>	pCi/L	11/21/23 11:13	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.51 ± 0.713 (1.06)</b>	pCi/L	12/01/23 14:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BD19611 FB-5</b> <b>Lab ID: 30636707008</b> Collected: 10/24/23 15:30      Received: 11/06/23 10:20      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0542U ± 0.183 (0.454)</b> <b>C:99% T:NA</b>	pCi/L	11/30/23 11:53	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>-0.0689U ± 0.249 (0.603)</b> <b>C:85% T:86%</b>	pCi/L	11/28/23 11:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.0542U ± 0.432 (1.06)</b>	pCi/L	12/01/23 14:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD19612 MW-5**      **Lab ID: 30636707009**      Collected: 10/24/23 16:08      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.747 ± 0.362 (0.490)</b> <b>C:90% T:NA</b>	pCi/L	11/30/23 11:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.287U ± 0.303 (0.625)</b> <b>C:86% T:83%</b>	pCi/L	11/28/23 11:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.03U ± 0.665 (1.12)</b>	pCi/L	12/01/23 14:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.587 ± 0.311 (0.437)</b> <b>C:90% T:NA</b>	pCi/L	11/30/23 11:53	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.326U ± 0.296 (0.596)</b> <b>C:87% T:85%</b>	pCi/L	11/28/23 11:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.913U ± 0.607 (1.03)</b>	pCi/L	12/01/23 14:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.184U ± 0.208 (0.428)</b> <b>C:101% T:NA</b>	pCi/L	11/30/23 11:53	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.621U ± 0.369 (0.672)</b> <b>C:86% T:76%</b>	pCi/L	11/28/23 11:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.805U ± 0.577 (1.10)</b>	pCi/L	12/01/23 14:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD19615 MW-17**      **Lab ID: 30636707012**      Collected: 10/23/23 15:45      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.688 ± 0.334 (0.423)</b> <b>C:91% T:NA</b>	pCi/L	11/30/23 11:53	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.903 ± 0.398 (0.644)</b> <b>C:87% T:81%</b>	pCi/L	11/28/23 11:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.59 ± 0.732 (1.07)</b>	pCi/L	12/01/23 14:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.895 ± 0.383 (0.463)</b> <b>C:94% T:NA</b>	pCi/L	11/30/23 11:53	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.768 ± 0.370 (0.622)</b> <b>C:86% T:84%</b>	pCi/L	11/28/23 11:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.66 ± 0.753 (1.09)</b>	pCi/L	12/01/23 14:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.116U ± 0.204 (0.463)</b> <b>C:96% T:NA</b>	pCi/L	11/30/23 11:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.207U ± 0.316 (0.684)</b> <b>C:86% T:78%</b>	pCi/L	11/28/23 11:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.323U ± 0.520 (1.15)</b>	pCi/L	12/01/23 14:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.114U ± 0.200 (0.452)</b> <b>C:95% T:NA</b>	pCi/L	11/30/23 11:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.160U ± 0.271 (0.591)</b> <b>C:88% T:83%</b>	pCi/L	11/28/23 11:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.274U ± 0.471 (1.04)</b>	pCi/L	12/01/23 14:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.379U ± 0.258 (0.422)</b> <b>C:96% T:NA</b>	pCi/L	11/30/23 11:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.531U ± 0.319 (0.578)</b> <b>C:86% T:83%</b>	pCi/L	11/28/23 11:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.910U ± 0.577 (1.000)</b>	pCi/L	12/01/23 14:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.144U ± 0.225 (0.499)</b> <b>C:93% T:NA</b>	pCi/L	11/30/23 11:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.711 ± 0.343 (0.576)</b> <b>C:87% T:88%</b>	pCi/L	11/28/23 11:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.855U ± 0.568 (1.08)</b>	pCi/L	12/01/23 14:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.129U ± 0.191 (0.415)</b> <b>C:98% T:NA</b>	pCi/L	11/30/23 11:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.118U ± 0.322 (0.723)</b> <b>C:77% T:84%</b>	pCi/L	11/28/23 14:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.247U ± 0.513 (1.14)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.163U ± 0.202 (0.424)</b> <b>C:109% T:NA</b>	pCi/L	11/30/23 11:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.189U ± 0.315 (0.686)</b> <b>C:79% T:85%</b>	pCi/L	11/28/23 14:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.352U ± 0.517 (1.11)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD19623 MW-40H Dup**      **Lab ID: 30636707020**      Collected: 10/24/23 14:45      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.142U ± 0.168 (0.334)</b> <b>C:104% T:NA</b>	pCi/L	11/30/23 11:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.217U ± 0.322 (0.693)</b> <b>C:80% T:82%</b>	pCi/L	11/28/23 14:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.359U ± 0.490 (1.03)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD19624 MW-15**      **Lab ID: 30636707021**      Collected: 10/24/23 16:05      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>-0.00587U ± 0.179 (0.495)</b> <b>C:86% T:NA</b>	pCi/L	11/30/23 11:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.295U ± 0.324 (0.675)</b> <b>C:82% T:83%</b>	pCi/L	11/28/23 14:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.295U ± 0.503 (1.17)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BD19625 FB-3</b> <b>Lab ID: 30636707022</b> Collected: 10/24/23 16:30      Received: 11/06/23 10:20      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0783U ± 0.163 (0.381)</b> <b>C:105% T:NA</b>	pCi/L	11/30/23 11:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.237U ± 0.315 (0.671)</b> <b>C:81% T:85%</b>	pCi/L	11/28/23 14:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.315U ± 0.478 (1.05)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.117U ± 0.210 (0.477)</b> <b>C:93% T:NA</b>	pCi/L	11/30/23 11:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>-0.112U ± 0.282 (0.700)</b> <b>C:82% T:81%</b>	pCi/L	11/28/23 14:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.117U ± 0.492 (1.18)</b>	pCi/L	12/01/23 14:45	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD19777 MW-6 MS**      **Lab ID: 30636707024**      Collected: 10/25/23 12:35      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>75.83 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/30/23 11:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>67.77 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/28/23 14:45	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD19777 MW-6 MSD**      **Lab ID: 30636707025**      Collected: 10/25/23 12:35      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>61.98 %REC 20.10RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/30/23 11:54	13982-63-3	1c
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>91.70 %REC 30.02RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/28/23 14:45	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BD19778 MW-7</b> <b>Lab ID: 30636707026</b> Collected: 10/25/23 14:22      Received: 11/06/23 10:20      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.428U ± 0.301 (0.515)</b> <b>C:84% T:NA</b>	pCi/L	11/30/23 11:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.0854U ± 0.307 (0.696)</b> <b>C:84% T:81%</b>	pCi/L	11/28/23 14:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.513U ± 0.608 (1.21)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.294U ± 0.223 (0.363)</b> <b>C:95% T:NA</b>	pCi/L	11/30/23 11:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.726 ± 0.383 (0.665)</b> <b>C:84% T:78%</b>	pCi/L	11/30/23 14:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.02U ± 0.606 (1.03)</b>	pCi/L	12/04/23 13:16	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>72.58 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/30/23 11:56	13982-63-3	2c
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>90.52 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/30/23 14:52	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD19779 MW-8 MSD**      **Lab ID: 30636707029**      Collected: 10/25/23 15:00      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>93.30 %REC 24.97RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/30/23 13:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>85.19 %REC 6.08RPD ± NA</b> <b>(NA)</b> <b>C:NA T:NA</b>	pCi/L	11/30/23 14:52	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.928 ± 0.388 (0.464)</b> <b>C:93% T:NA</b>	pCi/L	11/30/23 13:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.668 ± 0.329 (0.523)</b> <b>C:89% T:83%</b>	pCi/L	11/30/23 14:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.60 ± 0.717 (0.987)</b>	pCi/L	12/04/23 13:16	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD19781 MW-11**      **Lab ID: 30636707031**      Collected: 10/25/23 16:33      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.268U ± 0.239 (0.450)</b> <b>C:96% T:NA</b>	pCi/L	11/30/23 13:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.927 ± 0.413 (0.659)</b> <b>C:87% T:73%</b>	pCi/L	11/30/23 14:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.20 ± 0.652 (1.11)</b>	pCi/L	12/04/23 13:16	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.341U ± 0.260 (0.450)</b> <b>C:93% T:NA</b>	pCi/L	11/30/23 13:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.361U ± 0.302 (0.598)</b> <b>C:88% T:83%</b>	pCi/L	11/30/23 14:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.702U ± 0.562 (1.05)</b>	pCi/L	12/04/23 13:16	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.736 ± 0.357 (0.497)</b> <b>C:88% T:NA</b>	pCi/L	11/30/23 13:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.19 ± 0.445 (0.638)</b> <b>C:84% T:82%</b>	pCi/L	11/30/23 14:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.93 ± 0.802 (1.14)</b>	pCi/L	12/04/23 13:16	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD19784 MW-42H**      **Lab ID: 30636707034**      Collected: 10/25/23 09:55      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.803 ± 0.350 (0.405)</b> <b>C:97% T:NA</b>	pCi/L	11/30/23 13:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.940 ± 0.430 (0.709)</b> <b>C:82% T:79%</b>	pCi/L	11/30/23 14:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.74 ± 0.780 (1.11)</b>	pCi/L	12/04/23 13:16	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.143U ± 0.198 (0.425)</b> <b>C:102% T:NA</b>	pCi/L	11/30/23 13:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.558U ± 0.356 (0.660)</b> <b>C:86% T:78%</b>	pCi/L	11/30/23 14:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.701U ± 0.554 (1.09)</b>	pCi/L	12/04/23 13:16	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD19786 MW-48H**      **Lab ID: 30636707036**      Collected: 10/25/23 11:33      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>-0.0138U ± 0.174 (0.487)</b> <b>C:91% T:NA</b>	pCi/L	11/30/23 13:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.356U ± 0.349 (0.719)</b> <b>C:82% T:84%</b>	pCi/L	12/01/23 12:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.356U ± 0.523 (1.21)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD19786 MW-48H MS**      **Lab ID: 30636707037**      Collected: 10/25/23 11:33      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>114.22 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/30/23 13:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>80.39 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	12/01/23 12:20	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD19786 MW-48H MSD**      **Lab ID: 30636707038**      Collected: 10/25/23 11:33      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>102.82 %REC 10.51RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/30/23 13:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>74.06 %REC 8.20RPD ± NA</b> <b>(NA)</b> <b>C:NA T:NA</b>	pCi/L	12/01/23 12:20	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD19787 MW-12**      **Lab ID: 30636707039**      Collected: 10/25/23 13:19      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0281U ± 0.173 (0.450)</b> <b>C:97% T:NA</b>	pCi/L	11/30/23 13:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.403U ± 0.296 (0.563)</b> <b>C:90% T:79%</b>	pCi/L	11/30/23 14:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.431U ± 0.469 (1.01)</b>	pCi/L	12/04/23 13:16	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0330U ± 0.180 (0.462)</b> C:92% T:NA	pCi/L	11/30/23 13:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.290U ± 0.309 (0.636)</b> C:91% T:81%	pCi/L	11/30/23 14:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.323U ± 0.489 (1.10)</b>	pCi/L	12/04/23 13:16	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.302U ± 0.243 (0.430)</b> <b>C:95% T:NA</b>	pCi/L	11/30/23 13:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.0413U ± 0.278 (0.642)</b> <b>C:89% T:82%</b>	pCi/L	11/30/23 14:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.343U ± 0.521 (1.07)</b>	pCi/L	12/04/23 13:16	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0369U ± 0.217 (0.554)</b> <b>C:86% T:NA</b>	pCi/L	11/30/23 13:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.528U ± 0.334 (0.613)</b> <b>C:90% T:79%</b>	pCi/L	11/30/23 14:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.565U ± 0.551 (1.17)</b>	pCi/L	12/04/23 13:16	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.342U ± 0.255 (0.457)</b> <b>C:95% T:NA</b>	pCi/L	11/30/23 13:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.641U ± 0.377 (0.691)</b> <b>C:95% T:79%</b>	pCi/L	11/30/23 14:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.983U ± 0.632 (1.15)</b>	pCi/L	12/04/23 13:16	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.345U ± 0.245 (0.383)</b> <b>C:89% T:NA</b>	pCi/L	11/30/23 13:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.0826U ± 0.306 (0.693)</b> <b>C:85% T:84%</b>	pCi/L	11/30/23 14:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.428U ± 0.551 (1.08)</b>	pCi/L	12/04/23 13:16	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD19793 MW-23**      **Lab ID: 30636707045**      Collected: 10/25/23 13:55      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.203U ± 0.233 (0.477)</b> <b>C:93% T:NA</b>	pCi/L	11/30/23 13:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.246U ± 0.291 (0.611)</b> <b>C:87% T:84%</b>	pCi/L	11/30/23 14:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.449U ± 0.524 (1.09)</b>	pCi/L	12/04/23 13:16	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.377U ± 0.263 (0.432)</b> <b>C:98% T:NA</b>	pCi/L	11/30/23 13:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.380U ± 0.285 (0.554)</b> <b>C:93% T:85%</b>	pCi/L	11/30/23 14:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.757U ± 0.548 (0.986)</b>	pCi/L	12/04/23 13:16	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BD19795 FB-2</b> <b>Lab ID: 30636707047</b> Collected: 10/25/23 16:55      Received: 11/06/23 10:20      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>-0.0332U ± 0.177 (0.509)</b> <b>C:90% T:NA</b>	pCi/L	11/30/23 13:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>-0.0148U ± 0.230 (0.546)</b> <b>C:89% T:88%</b>	pCi/L	11/30/23 14:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.000U ± 0.407 (1.06)</b>	pCi/L	12/04/23 13:16	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD20106 MW-31**      **Lab ID: 30636707048**      Collected: 10/30/23 14:44      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.203U ± 0.215 (0.410)</b> <b>C:84% T:NA</b>	pCi/L	11/30/23 13:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.451U ± 0.307 (0.579)</b> <b>C:85% T:85%</b>	pCi/L	11/30/23 14:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.654U ± 0.522 (0.989)</b>	pCi/L	12/04/23 13:16	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BD20107 MW-33</b> <b>Lab ID: 30636707049</b> Collected: 10/30/23 15:38      Received: 11/06/23 10:20      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.706 ± 0.323 (0.362)</b> <b>C:91% T:NA</b>	pCi/L	11/30/23 15:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.532U ± 0.312 (0.565)</b> <b>C:92% T:84%</b>	pCi/L	11/30/23 14:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.24 ± 0.635 (0.927)</b>	pCi/L	12/04/23 13:16	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.145U ± 0.216 (0.471)</b> <b>C:90% T:NA</b>	pCi/L	11/30/23 15:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.408U ± 0.327 (0.649)</b> <b>C:86% T:85%</b>	pCi/L	12/01/23 12:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.553U ± 0.543 (1.12)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BD20109 FB-1</b> <b>Lab ID: 30636707051</b> Collected: 10/30/23 16:55      Received: 11/06/23 10:20      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.183U ± 0.216 (0.445)</b> <b>C:97% T:NA</b>	pCi/L	11/30/23 15:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.151U ± 0.276 (0.605)</b> <b>C:83% T:86%</b>	pCi/L	12/01/23 12:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.334U ± 0.492 (1.05)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.646 ± 0.316 (0.419)</b> <b>C:91% T:NA</b>	pCi/L	11/30/23 15:04	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.590U ± 0.343 (0.591)</b> <b>C:84% T:76%</b>	pCi/L	12/01/23 12:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.24 ± 0.659 (1.01)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>1.29 ± 0.448 (0.468)</b> <b>C:95% T:NA</b>	pCi/L	11/30/23 15:04	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.335U ± 0.312 (0.635)</b> <b>C:85% T:86%</b>	pCi/L	12/01/23 12:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.63 ± 0.760 (1.10)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.646 ± 0.322 (0.416)</b> <b>C:95% T:NA</b>	pCi/L	11/30/23 15:05	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.795 ± 0.358 (0.577)</b> <b>C:83% T:87%</b>	pCi/L	12/01/23 12:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.44 ± 0.680 (0.993)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.543U ± 0.364 (0.596)</b> <b>C:69% T:NA</b>	pCi/L	11/30/23 15:05	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.573U ± 0.348 (0.644)</b> <b>C:85% T:83%</b>	pCi/L	12/01/23 12:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.12U ± 0.712 (1.24)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD20114 MW-45H**      **Lab ID: 30636707056**      Collected: 10/31/23 14:27      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.231U ± 0.292 (0.613)</b> <b>C:73% T:NA</b>	pCi/L	11/30/23 15:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.429U ± 0.383 (0.779)</b> <b>C:84% T:84%</b>	pCi/L	12/01/23 15:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.660U ± 0.675 (1.39)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD20115 MW-41H**      **Lab ID: 30636707057**      Collected: 10/31/23 15:17      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.619 ± 0.351 (0.533)</b> <b>C:80% T:NA</b>	pCi/L	11/30/23 15:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.651U ± 0.402 (0.753)</b> <b>C:86% T:82%</b>	pCi/L	12/01/23 15:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.27U ± 0.753 (1.29)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD20116 MW-41H Dup**      **Lab ID: 30636707058**      Collected: 10/31/23 15:17      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.692 ± 0.354 (0.486)</b> <b>C:83% T:NA</b>	pCi/L	11/30/23 15:05	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.12 ± 0.468 (0.748)</b> <b>C:86% T:80%</b>	pCi/L	12/01/23 15:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.81 ± 0.822 (1.23)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.705 ± 0.341 (0.484)</b> <b>C:98% T:NA</b>	pCi/L	11/30/23 15:05	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.20 ± 0.451 (0.661)</b> <b>C:86% T:83%</b>	pCi/L	12/01/23 15:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.91 ± 0.792 (1.15)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.471U ± 0.319 (0.548)</b> <b>C:81% T:NA</b>	pCi/L	11/30/23 15:05	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.32 ± 0.487 (0.717)</b> <b>C:88% T:82%</b>	pCi/L	12/01/23 15:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.79 ± 0.806 (1.27)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.320U ± 0.248 (0.425)</b> <b>C:90% T:NA</b>	pCi/L	11/30/23 15:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.623U ± 0.355 (0.635)</b> <b>C:90% T:82%</b>	pCi/L	12/01/23 15:30	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.943U ± 0.603 (1.06)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.257U ± 0.251 (0.489)</b> <b>C:90% T:NA</b>	pCi/L	11/30/23 15:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.360U ± 0.302 (0.585)</b> <b>C:86% T:81%</b>	pCi/L	12/01/23 15:30	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.617U ± 0.553 (1.07)</b>	pCi/L	12/06/23 09:31	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

**Sample: BD20121 MW-34HA**      **Lab ID: 30636707063**      Collected: 11/01/23 14:15      Received: 11/06/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0765U ± 0.185 (0.442)</b> <b>C:91% T:NA</b>	pCi/L	11/30/23 15:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0716U ± 0.295 (0.672)</b> <b>C:86% T:86%</b>	pCi/L	12/01/23 15:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.148U ± 0.480 (1.11)</b>	pCi/L	12/06/23 09:33	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BD20122 EB-1</b> <b>Lab ID: 30636707064</b> Collected: 11/01/23 14:45      Received: 11/06/23 10:20      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0175U ± 0.206 (0.542)</b> <b>C:81% T:NA</b>	pCi/L	11/30/23 15:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.230U ± 0.267 (0.558)</b> <b>C:87% T:92%</b>	pCi/L	12/01/23 15:30	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.248U ± 0.473 (1.10)</b>	pCi/L	12/06/23 09:33	7440-14-4	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

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QC Batch:	629424	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30636707027, 30636707028, 30636707029, 30636707030, 30636707031, 30636707032, 30636707033, 30636707034, 30636707035, 30636707039, 30636707040, 30636707041, 30636707042, 30636707043, 30636707044, 30636707045, 30636707046, 30636707047, 30636707048, 30636707049

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METHOD BLANK: 3068450 Matrix: Water

Associated Lab Samples: 30636707027, 30636707028, 30636707029, 30636707030, 30636707031, 30636707032, 30636707033, 30636707034, 30636707035, 30636707039, 30636707040, 30636707041, 30636707042, 30636707043, 30636707044, 30636707045, 30636707046, 30636707047, 30636707048, 30636707049

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.407 ± 0.320 (0.638) C:90% T:89%	pCi/L	11/30/23 14:50	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

---

QC Batch:	629423	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30636707008, 30636707009, 30636707010, 30636707011, 30636707012, 30636707013, 30636707014, 30636707015, 30636707016, 30636707017, 30636707018, 30636707019, 30636707020, 30636707021, 30636707022, 30636707023, 30636707024, 30636707025, 30636707026

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METHOD BLANK: 3068448 Matrix: Water

Associated Lab Samples: 30636707008, 30636707009, 30636707010, 30636707011, 30636707012, 30636707013, 30636707014, 30636707015, 30636707016, 30636707017, 30636707018, 30636707019, 30636707020, 30636707021, 30636707022, 30636707023, 30636707024, 30636707025, 30636707026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.140 ± 0.291 (0.643) C:89% T:80%	pCi/L	11/28/23 11:39	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

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QC Batch:	628044	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30636707036, 30636707037, 30636707038, 30636707044, 30636707045, 30636707046, 30636707047, 30636707048, 30636707049, 30636707050, 30636707051, 30636707052, 30636707053, 30636707054, 30636707055, 30636707056, 30636707057, 30636707058, 30636707059, 30636707060

---

METHOD BLANK: 3061591 Matrix: Water

Associated Lab Samples: 30636707036, 30636707037, 30636707038, 30636707044, 30636707045, 30636707046, 30636707047, 30636707048, 30636707049, 30636707050, 30636707051, 30636707052, 30636707053, 30636707054, 30636707055, 30636707056, 30636707057, 30636707058, 30636707059, 30636707060

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0121 ± 0.0805 (0.224) C:91% T:NA	pCi/L	11/30/23 13:32	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

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QC Batch:	629425	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30636707036, 30636707037, 30636707038, 30636707050, 30636707051, 30636707052, 30636707053, 30636707054, 30636707055, 30636707056, 30636707057, 30636707058, 30636707059, 30636707060, 30636707061, 30636707062, 30636707063, 30636707064

---

METHOD BLANK: 3068451 Matrix: Water

Associated Lab Samples: 30636707036, 30636707037, 30636707038, 30636707050, 30636707051, 30636707052, 30636707053, 30636707054, 30636707055, 30636707056, 30636707057, 30636707058, 30636707059, 30636707060, 30636707061, 30636707062, 30636707063, 30636707064

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.156 ± 0.295 (0.648) C:86% T:90%	pCi/L	12/01/23 12:20	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

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QC Batch: 629158	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30636707061, 30636707062, 30636707063, 30636707064

---

METHOD BLANK: 3067421 Matrix: Water  
 Associated Lab Samples: 30636707061, 30636707062, 30636707063, 30636707064

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.108 ± 0.109 (0.217) C:94% T:NA	pCi/L	11/30/23 15:08	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

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QC Batch:	628042	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30636707001, 30636707002, 30636707003, 30636707004, 30636707005, 30636707006, 30636707007, 30636707008, 30636707009, 30636707010, 30636707011, 30636707012, 30636707013, 30636707014, 30636707015, 30636707016, 30636707017, 30636707023, 30636707024, 30636707025

---

METHOD BLANK: 3061589 Matrix: Water

Associated Lab Samples: 30636707001, 30636707002, 30636707003, 30636707004, 30636707005, 30636707006, 30636707007, 30636707008, 30636707009, 30636707010, 30636707011, 30636707012, 30636707013, 30636707014, 30636707015, 30636707016, 30636707017, 30636707023, 30636707024, 30636707025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0127 ± 0.0839 (0.234) C:84% T:NA	pCi/L	11/30/23 10:15	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

---

QC Batch:	628043	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30636707018, 30636707019, 30636707020, 30636707021, 30636707022, 30636707026, 30636707027, 30636707028, 30636707029, 30636707030, 30636707031, 30636707032, 30636707033, 30636707034, 30636707035, 30636707039, 30636707040, 30636707041, 30636707042, 30636707043

---

METHOD BLANK: 3061590 Matrix: Water

Associated Lab Samples: 30636707018, 30636707019, 30636707020, 30636707021, 30636707022, 30636707026, 30636707027, 30636707028, 30636707029, 30636707030, 30636707031, 30636707032, 30636707033, 30636707034, 30636707035, 30636707039, 30636707040, 30636707041, 30636707042, 30636707043

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.125 ± 0.105 (0.193) C:92% T:NA	pCi/L	11/30/23 11:55	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

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QC Batch: 629422	Analysis Method: EPA 9320
QC Batch Method: EPA 9320	Analysis Description: 9320 Radium 228
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30636707001, 30636707002, 30636707003, 30636707004, 30636707005, 30636707006, 30636707007

---

METHOD BLANK: 3068447 Matrix: Water

Associated Lab Samples: 30636707001, 30636707002, 30636707003, 30636707004, 30636707005, 30636707006, 30636707007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.257 ± 0.321 (0.679) C:84% T:82%	pCi/L	11/21/23 11:52	

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## QUALIFIERS

Project: WMWGREAP\_1430  
Pace Project No.: 30636707

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

- 1c Matrix spike duplicate recovery low and outside of the acceptance criteria for MS recovery. Results reported based on acceptable RPD for the RQS set.
- 2c Matrix spike recovery low and outside of the default acceptance criteria for MS recovery. Results reported based on acceptable RPD for the RQS set.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30636707001	BD19604 MW-1	EPA 9315	628042		
30636707002	BD19605 MW-1 Dup	EPA 9315	628042		
30636707003	BD19606 FB-4	EPA 9315	628042		
30636707004	BD19607 MW-2	EPA 9315	628042		
30636707005	BD19608 MW-3	EPA 9315	628042		
30636707006	BD19609 PZ-4	EPA 9315	628042		
30636707007	BD19610 PZ-4 Dup	EPA 9315	628042		
30636707008	BD19611 FB-5	EPA 9315	628042		
30636707009	BD19612 MW-5	EPA 9315	628042		
30636707010	BD19613 MW-18	EPA 9315	628042		
30636707011	BD19614 MW-38H	EPA 9315	628042		
30636707012	BD19615 MW-17	EPA 9315	628042		
30636707013	BD19616 MW-17 Dup	EPA 9315	628042		
30636707014	BD19617 MW-26	EPA 9315	628042		
30636707015	BD19618 MW-27	EPA 9315	628042		
30636707016	BD19619 MW-28	EPA 9315	628042		
30636707017	BD19620 MW-29	EPA 9315	628042		
30636707018	BD19621 MW-30	EPA 9315	628043		
30636707019	BD19622 MW-40H	EPA 9315	628043		
30636707020	BD19623 MW-40H Dup	EPA 9315	628043		
30636707021	BD19624 MW-15	EPA 9315	628043		
30636707022	BD19625 FB-3	EPA 9315	628043		
30636707023	BD19777 MW-6	EPA 9315	628042		
30636707024	BD19777 MW-6 MS	EPA 9315	628042		
30636707025	BD19777 MW-6 MSD	EPA 9315	628042		
30636707026	BD19778 MW-7	EPA 9315	628043		
30636707027	BD19779 MW-8	EPA 9315	628043		
30636707028	BD19779 MW-8 MS	EPA 9315	628043		
30636707029	BD19779 MW-8 MSD	EPA 9315	628043		
30636707030	BD19780 MW-9	EPA 9315	628043		
30636707031	BD19781 MW-11	EPA 9315	628043		
30636707032	BD19782 MW-35H	EPA 9315	628043		
30636707033	BD19783 MW-43H	EPA 9315	628043		
30636707034	BD19784 MW-42H	EPA 9315	628043		
30636707035	BD19785 MW-49H	EPA 9315	628043		
30636707036	BD19786 MW-48H	EPA 9315	628044		
30636707037	BD19786 MW-48H MS	EPA 9315	628044		
30636707038	BD19786 MW-48H MSD	EPA 9315	628044		
30636707039	BD19787 MW-12	EPA 9315	628043		
30636707040	BD19788 MW-21	EPA 9315	628043		
30636707041	BD19789 MW-13	EPA 9315	628043		
30636707042	BD19790 MW-37H	EPA 9315	628043		
30636707043	BD19791 MW-16	EPA 9315	628043		
30636707044	BD19792 MW-24	EPA 9315	628044		
30636707045	BD19793 MW-23	EPA 9315	628044		
30636707046	BD19794 MW-36H	EPA 9315	628044		

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30636707047	BD19795 FB-2	EPA 9315	628044		
30636707048	BD20106 MW-31	EPA 9315	628044		
30636707049	BD20107 MW-33	EPA 9315	628044		
30636707050	BD20108 MW-32	EPA 9315	628044		
30636707051	BD20109 FB-1	EPA 9315	628044		
30636707052	BD20110 MW-44H	EPA 9315	628044		
30636707053	BD20111 MW-54H	EPA 9315	628044		
30636707054	BD20112 MW-53H	EPA 9315	628044		
30636707055	BD20113 MW-57H	EPA 9315	628044		
30636707056	BD20114 MW-45H	EPA 9315	628044		
30636707057	BD20115 MW-41H	EPA 9315	628044		
30636707058	BD20116 MW-41H Dup	EPA 9315	628044		
30636707059	BD20117 MW-39H	EPA 9315	628044		
30636707060	BD20118 MW-10	EPA 9315	628044		
30636707061	BD20119 MW-14	EPA 9315	629158		
30636707062	BD20120 MW-25	EPA 9315	629158		
30636707063	BD20121 MW-34HA	EPA 9315	629158		
30636707064	BD20122 EB-1	EPA 9315	629158		
30636707001	BD19604 MW-1	EPA 9320	629422		
30636707002	BD19605 MW-1 Dup	EPA 9320	629422		
30636707003	BD19606 FB-4	EPA 9320	629422		
30636707004	BD19607 MW-2	EPA 9320	629422		
30636707005	BD19608 MW-3	EPA 9320	629422		
30636707006	BD19609 PZ-4	EPA 9320	629422		
30636707007	BD19610 PZ-4 Dup	EPA 9320	629422		
30636707008	BD19611 FB-5	EPA 9320	629423		
30636707009	BD19612 MW-5	EPA 9320	629423		
30636707010	BD19613 MW-18	EPA 9320	629423		
30636707011	BD19614 MW-38H	EPA 9320	629423		
30636707012	BD19615 MW-17	EPA 9320	629423		
30636707013	BD19616 MW-17 Dup	EPA 9320	629423		
30636707014	BD19617 MW-26	EPA 9320	629423		
30636707015	BD19618 MW-27	EPA 9320	629423		
30636707016	BD19619 MW-28	EPA 9320	629423		
30636707017	BD19620 MW-29	EPA 9320	629423		
30636707018	BD19621 MW-30	EPA 9320	629423		
30636707019	BD19622 MW-40H	EPA 9320	629423		
30636707020	BD19623 MW-40H Dup	EPA 9320	629423		
30636707021	BD19624 MW-15	EPA 9320	629423		
30636707022	BD19625 FB-3	EPA 9320	629423		
30636707023	BD19777 MW-6	EPA 9320	629423		
30636707024	BD19777 MW-6 MS	EPA 9320	629423		
30636707025	BD19777 MW-6 MSD	EPA 9320	629423		
30636707026	BD19778 MW-7	EPA 9320	629423		
30636707027	BD19779 MW-8	EPA 9320	629424		
30636707028	BD19779 MW-8 MS	EPA 9320	629424		
30636707029	BD19779 MW-8 MSD	EPA 9320	629424		

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30636707030	BD19780 MW-9	EPA 9320	629424		
30636707031	BD19781 MW-11	EPA 9320	629424		
30636707032	BD19782 MW-35H	EPA 9320	629424		
30636707033	BD19783 MW-43H	EPA 9320	629424		
30636707034	BD19784 MW-42H	EPA 9320	629424		
30636707035	BD19785 MW-49H	EPA 9320	629424		
30636707036	BD19786 MW-48H	EPA 9320	629425		
30636707037	BD19786 MW-48H MS	EPA 9320	629425		
30636707038	BD19786 MW-48H MSD	EPA 9320	629425		
30636707039	BD19787 MW-12	EPA 9320	629424		
30636707040	BD19788 MW-21	EPA 9320	629424		
30636707041	BD19789 MW-13	EPA 9320	629424		
30636707042	BD19790 MW-37H	EPA 9320	629424		
30636707043	BD19791 MW-16	EPA 9320	629424		
30636707044	BD19792 MW-24	EPA 9320	629424		
30636707045	BD19793 MW-23	EPA 9320	629424		
30636707046	BD19794 MW-36H	EPA 9320	629424		
30636707047	BD19795 FB-2	EPA 9320	629424		
30636707048	BD20106 MW-31	EPA 9320	629424		
30636707049	BD20107 MW-33	EPA 9320	629424		
30636707050	BD20108 MW-32	EPA 9320	629425		
30636707051	BD20109 FB-1	EPA 9320	629425		
30636707052	BD20110 MW-44H	EPA 9320	629425		
30636707053	BD20111 MW-54H	EPA 9320	629425		
30636707054	BD20112 MW-53H	EPA 9320	629425		
30636707055	BD20113 MW-57H	EPA 9320	629425		
30636707056	BD20114 MW-45H	EPA 9320	629425		
30636707057	BD20115 MW-41H	EPA 9320	629425		
30636707058	BD20116 MW-41H Dup	EPA 9320	629425		
30636707059	BD20117 MW-39H	EPA 9320	629425		
30636707060	BD20118 MW-10	EPA 9320	629425		
30636707061	BD20119 MW-14	EPA 9320	629425		
30636707062	BD20120 MW-25	EPA 9320	629425		
30636707063	BD20121 MW-34HA	EPA 9320	629425		
30636707064	BD20122 EB-1	EPA 9320	629425		
30636707001	BD19604 MW-1	Total Radium Calculation	633302		
30636707002	BD19605 MW-1 Dup	Total Radium Calculation	633302		
30636707003	BD19606 FB-4	Total Radium Calculation	633302		
30636707004	BD19607 MW-2	Total Radium Calculation	633302		
30636707005	BD19608 MW-3	Total Radium Calculation	633302		
30636707006	BD19609 PZ-4	Total Radium Calculation	633302		
30636707007	BD19610 PZ-4 Dup	Total Radium Calculation	633302		
30636707008	BD19611 FB-5	Total Radium Calculation	633302		
30636707009	BD19612 MW-5	Total Radium Calculation	633302		
30636707010	BD19613 MW-18	Total Radium Calculation	633302		
30636707011	BD19614 MW-38H	Total Radium Calculation	633302		
30636707012	BD19615 MW-17	Total Radium Calculation	633302		

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: WMWGREAP\_1430  
 Pace Project No.: 30636707

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30636707013	BD19616 MW-17 Dup	Total Radium Calculation	633302		
30636707014	BD19617 MW-26	Total Radium Calculation	633302		
30636707015	BD19618 MW-27	Total Radium Calculation	633302		
30636707016	BD19619 MW-28	Total Radium Calculation	633302		
30636707017	BD19620 MW-29	Total Radium Calculation	633302		
30636707018	BD19621 MW-30	Total Radium Calculation	634088		
30636707019	BD19622 MW-40H	Total Radium Calculation	634088		
30636707020	BD19623 MW-40H Dup	Total Radium Calculation	634088		
30636707021	BD19624 MW-15	Total Radium Calculation	634088		
30636707022	BD19625 FB-3	Total Radium Calculation	634088		
30636707023	BD19777 MW-6	Total Radium Calculation	633302		
30636707026	BD19778 MW-7	Total Radium Calculation	634088		
30636707027	BD19779 MW-8	Total Radium Calculation	633583		
30636707030	BD19780 MW-9	Total Radium Calculation	633583		
30636707031	BD19781 MW-11	Total Radium Calculation	633583		
30636707032	BD19782 MW-35H	Total Radium Calculation	633583		
30636707033	BD19783 MW-43H	Total Radium Calculation	633583		
30636707034	BD19784 MW-42H	Total Radium Calculation	633583		
30636707035	BD19785 MW-49H	Total Radium Calculation	633583		
30636707036	BD19786 MW-48H	Total Radium Calculation	634088		
30636707039	BD19787 MW-12	Total Radium Calculation	633583		
30636707040	BD19788 MW-21	Total Radium Calculation	633583		
30636707041	BD19789 MW-13	Total Radium Calculation	633583		
30636707042	BD19790 MW-37H	Total Radium Calculation	633583		
30636707043	BD19791 MW-16	Total Radium Calculation	633583		
30636707044	BD19792 MW-24	Total Radium Calculation	633583		
30636707045	BD19793 MW-23	Total Radium Calculation	633583		
30636707046	BD19794 MW-36H	Total Radium Calculation	633583		
30636707047	BD19795 FB-2	Total Radium Calculation	633583		
30636707048	BD20106 MW-31	Total Radium Calculation	633583		
30636707049	BD20107 MW-33	Total Radium Calculation	633583		
30636707050	BD20108 MW-32	Total Radium Calculation	634088		
30636707051	BD20109 FB-1	Total Radium Calculation	634088		
30636707052	BD20110 MW-44H	Total Radium Calculation	634088		
30636707053	BD20111 MW-54H	Total Radium Calculation	634088		
30636707054	BD20112 MW-53H	Total Radium Calculation	634088		
30636707055	BD20113 MW-57H	Total Radium Calculation	634088		
30636707056	BD20114 MW-45H	Total Radium Calculation	634088		
30636707057	BD20115 MW-41H	Total Radium Calculation	634088		
30636707058	BD20116 MW-41H Dup	Total Radium Calculation	634088		
30636707059	BD20117 MW-39H	Total Radium Calculation	634088		
30636707060	BD20118 MW-10	Total Radium Calculation	634088		
30636707061	BD20119 MW-14	Total Radium Calculation	634088		
30636707062	BD20120 MW-25	Total Radium Calculation	634088		
30636707063	BD20121 MW-34HA	Total Radium Calculation	634089		

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
 without the written consent of Pace Analytical Services, LLC.





### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWGREAP\_1430  
Pace Project No.: 30636707

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30636707064	BD20122 EB-1	Total Radium Calculation	634089		

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### REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.


# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	Alabama Power Company	Report To:	Brooke Catton	Attention:	Brooke Catton
Address:	744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To:	Renee Jernigan & Blaine Denton	Company Name:	Alabama Power Co.
Email To:	tbwill@southernco.com	Purchase Order #:	APC87119-0001	Address:	744 Highway 87 GSC Bldg #8
Phone:	205-664-6101	Project Name:	Plant Greene County Ash Pond	CCR	
Requested Due Date:	28 days	Project Number:	VMMWGREAP_1430	Pace Project Manager:	Skylar Richmond
				Pace Profile #:	16788
				Regulatory Agency	AL

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Matrix Spike/Matrix Spike Duplicate	Field Filled	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE TIME	# OF CONTAINERS	Preservatives	Unpreserved	H2SO4	HNO3	Y/N	Requested Analysis Filtered (Y/N)	Total Radium Sum	Residual Chlorine (Y/N)	DATE	TIME	SAMPLE CONDITIONS							
																					RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	
1	BD19604	APCO-GC-AP-MW-1	APCO_GreeneCounty_AshPond			GW	G	10/24/2023 10:30	1					X	X	X	001										
2	BD19605	APCO-GC-AP-MW-1	APCO_GreeneCounty_AshPond	x		GW	G	10/24/2023 10:30	1					X	X	X	002										
3	BD19606	APCO-GC-AP-FB-04	APCO_GreeneCounty_AshPond			GW	G	10/24/2023 10:50	1					X	X	X	003										
4	BD19607	APCO-GC-AP-MW-2	APCO_GreeneCounty_AshPond			GW	G	10/24/2023 12:47	1					X	X	X	004										
5	BD19608	APCO-GC-AP-MW-3	APCO_GreeneCounty_AshPond			GW	G	10/24/2023 13:32	1					X	X	X	005										
6	BD19609	APCO-GC-AP-PZ-4	APCO_GreeneCounty_AshPond			GW	G	10/24/2023 14:45	1					X	X	X	006										
7	BD19610	APCO-GC-AP-PZ-4	APCO_GreeneCounty_AshPond	x		GW	G	10/24/2023 14:45	1					X	X	X	007										
8	BD19611	APCO-GC-AP-FB-05	APCO_GreeneCounty_AshPond			GW	G	10/24/2023 15:30	1					X	X	X	008										
9	BD19612	APCO-GC-AP-MW-5	APCO_GreeneCounty_AshPond			GW	G	10/24/2023 16:08	1					X	X	X	009										
10	BD19613	APCO-GC-AP-MW-18	APCO_GreeneCounty_AshPond			GW	G	10/23/2023 13:12	1					X	X	X	010										
11	BD19614	APCO-GC-AP-MW-38H	APCO_GreeneCounty_AshPond			GW	G	10/23/2023 14:45	1					X	X	X	011										
12	BD19615	APCO-GC-AP-MW-17	APCO_GreeneCounty_AshPond			GW	G	10/23/2023 15:45	1					X	X	X	012										
ADDITIONAL COMMENTS																RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME	
																Brooke Catton / APC GTL		11/2/2023		15:30		<i>Brooke Catton</i>		11/2/23		10:30	

WO#: 30636707



30636707

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed:

TEMP in C	
Received on	
Custody (Y/N)	
Sealed	
Cooler	
Samples (Y/N)	
Intact (Y/N)	

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:
Company: Alabama Power Company	Report To: Brooke Caton	Attention: Brooke Caton
Address: 744 Highway 87 GSC Bldg #8 Callera, AL 35040	Copy To: Renee Jernigan & Blaine Denton	Company Name: Alabama Power Co.
Email To: tbwill@sothernco.com	Purchase Order #: APC87119-0001	Address: 744 Highway 87 GSC Bldg #8 CCR
Phone: 205-664-6101	Project Name: Plant Greene County Ash Pond	Pace Quote: Skylar Richmond
Requested Due Date: 28 days	Project Number: WNWGREAP_1430	Pace Project Manager: Skylar Richmond
		Pace Profile #: 16788
		Regulatory Agency: AL

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)	EPA 8315	EPA 8320	Total Radium Sum	Residual Chlorine (Y/N)	Received on	Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples (Y/N)	Intact (Y/N)													
								START DATE	TIME																											
1	BD19816	APCO-GC-AP-MW-17	APCO_GreeneCounty_AshPond	X		GW	G	10/23/2023	15:45	1			X	X	X																					
2	BD19817	APCO-GC-AP-MW-28	APCO_GreeneCounty_AshPond			GW	G	10/24/2023	9:13	1			X	X	X																					
3	BD19818	APCO-GC-AP-MW-27	APCO_GreeneCounty_AshPond			GW	G	10/24/2023	10:05	1			X	X	X																					
4	BD19819	APCO-GC-AP-MW-28	APCO_GreeneCounty_AshPond			GW	G	10/24/2023	11:00	1			X	X	X																					
5	BD19820	APCO-GC-AP-MW-29	APCO_GreeneCounty_AshPond			GW	G	10/24/2023	11:57	1			X	X	X																					
6	BD19821	APCO-GC-AP-MW-30	APCO_GreeneCounty_AshPond			GW	G	10/24/2023	12:45	1			X	X	X																					
7	BD19822	APCO-GC-AP-MW-40H	APCO_GreeneCounty_AshPond			GW	G	10/24/2023	14:45	1			X	X	X																					
8	BD19823	APCO-GC-AP-MW-40H	APCO_GreeneCounty_AshPond	X		GW	G	10/24/2023	14:45	1			X	X	X																					
9	BD19824	APCO-GC-AP-MW-15	APCO_GreeneCounty_AshPond			GW	G	10/24/2023	16:05	1			X	X	X																					
10	BD19825	APCO-GC-AP-FB-03	APCO_GreeneCounty_AshPond			GW	G	10/24/2023	16:30	1			X	X	X																					
11	BD19777	APCO-GC-AP-MW-6	APCO_GreeneCounty_AshPond	X		GW	G	10/25/2023	12:35	3			X	X	X																					
12	BD19778	APCO-GC-AP-MW-7	APCO_GreeneCounty_AshPond			GW	G	10/25/2023	14:22	1			X	X	X																					
<b>ADDITIONAL COMMENTS</b>																	<b>ACCEPTED BY / AFFILIATION</b>					<b>DATE</b>					<b>TIME</b>									
Brooke Caton / APC GTL																	Krup [Signature]					11/1/23					10:00									

## WO#: 30636707

PW: SCR      Due Date: 12/06/23

CLIENT: ALABAMA PWR

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<b>SAMPLER NAME AND SIGNATURE</b>	
PRINT Name of SAMPLER:	DATE Signed:
SIGNATURE of SAMPLER:	DATE Signed:

TEMP In C	
Received on	
Ice (Y/N)	
Custody Sealed (Y/N)	
Cooler (Y/N)	
Samples (Y/N)	
Intact (Y/N)	

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Report To: Brooke Caton		Section C Invoice Information:	
Company: Alabama Power Company		Copy To: Renee Jernigan & Blaine Denton		Attention: Brooke Caton	
Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040		Purchase Order #: APC87119-0001		Company Name: Alabama Power Co.	
Email To: <a href="mailto:tbwill@southernmco.com">tbwill@southernmco.com</a>		Project Name: Plant Greene County Ash Pond		Address: 744 Highway 87 GSC Bldg #8	
Phone: 205-664-6101 Fax:		Project Number: WMVWGREP_1430		Pace Quote: CCR	
Requested Due Date: 28 days		Pace Project Manager: Skyler Richmond		Pace Profile #: 16788	
				Regulatory Agency: AL	

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Field Filled	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)		TEMP in C		
								START DATE	TIME				ANALYSES TEST	DATE		TIME	
1	BD19779	APCO-GC-AP-MW-8	APCO_GreeneCounty_AshPond	X		GW	G	10/25/2023	15:00	3			X	X	077,028,029		
2	BD19780	APCO-GC-AP-MW-9	APCO_GreeneCounty_AshPond			GW	G	10/25/2023	15:52	1			X	X	030		
3	BD19781	APCO-GC-AP-MW-11	APCO_GreeneCounty_AshPond			GW	G	10/25/2023	16:33	1			X	X	031		
4	BD19782	APCO-GC-AP-MW-35H	APCO_GreeneCounty_AshPond			GW	G	10/24/2023	16:11	1			X	X	032		
5	BD19783	APCO-GC-AP-MW-43H	APCO_GreeneCounty_AshPond			GW	G	10/25/2023	9:00	1			X	X	033		
6	BD19784	APCO-GC-AP-MW-42H	APCO_GreeneCounty_AshPond			GW	G	10/25/2023	9:55	1			X	X	034		
7	BD19785	APCO-GC-AP-MW-49H	APCO_GreeneCounty_AshPond			GW	G	10/25/2023	10:43	1			X	X	035		
8	BD19786	APCO-GC-AP-MW-48H	APCO_GreeneCounty_AshPond	X		GW	G	10/25/2023	11:35	3			X	X	036,037,038		
9	BD19787	APCO-GC-AP-MW-12	APCO_GreeneCounty_AshPond			GW	G	10/25/2023	13:19	1			X	X	039		
10	BD19788	APCO-GC-AP-MW-21	APCO_GreeneCounty_AshPond			GW	G	10/25/2023	14:30	1			X	X	040		
11	BD19789	APCO-GC-AP-MW-13	APCO_GreeneCounty_AshPond			GW	G	10/25/2023	16:05	1			X	X	041		
12	BD19790	APCO-GC-AP-MW-37H	APCO_GreeneCounty_AshPond			GW	G	10/25/2023	9:25	1			X	X	042		
ADDITIONAL COMMENTS												ACCEPTED BY / AFFILIATION		DATE		TIME	
Brooke Caton/ APC GTL												<i>Brooke Caton</i>		11/6/23		10:30	

**WO#: 30636707**

Print Name of SAMPLER: BROCKE CATON / APC GTL  
 SIGNATURE of SAMPLER: *Brooke Caton*  
 DATE Signed: 12/06/23  
 CLIENT: ALABAMA PMR

Received on: [ ]  
 Ice (Y/N): [ ]  
 Custody (Y/N): [ ]  
 Sealed Cooler (Y/N): [ ]  
 Intact Samples (Y/N): [ ]

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Section B Section C
Required Client Information: Alabama Power Company, 744 Highway 87 GSC Bldg #8, Calera, AL 35040
Required Project Information: Report To: Brooke Catton, Copy To: Renee Jernigan & Blaine Denton
Invoice Information: Attention: Brooke Catton, Company Name: Alabama Power Co., Address: 744 Highway 87 GSC Bldg #8, Pace Quote: CCR
Project Name: Plant Greene County Ash Pond
Project Manager: Skyler Richmond
Project Number: VMWGREAP\_1430
Pace Profile #: 16788

Table with columns: ITEM #, Description, Station Name Location\_ID, Site Name Facility\_ID, Field Filtered, Matrix Spike/Matrix Spike Duplicate, Sample Duplicate, COLLECTED, START DATE, TIME, # OF CONTAINERS, Preservatives, H2SO4, HNO3, Unpreserved, Analytes Test, EPA 9315, EPA 9320, Total Radium Sum, Residual Chlorine (Y/N), DATE, TIME, ACCEPTED BY / AFFILIATION, RELINQUISHED BY / AFFILIATION. Includes handwritten sample IDs 043-048 and date 11/16/23.

ADDITIONAL COMMENTS: Brooke Catton / APC GTL
SAMPLER NAME AND SIGNATURE: Brooke Catton
PRINT Name of SAMPLER: Brooke Catton
SIGNATURE of SAMPLER: [Signature]
DATE Signed: 11/16/23

WO#: 30636707
RN: SCR Due Date: 12/06/23
CLIENT: ALABAMA PWR
of 105

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b>		<b>Section B</b>		<b>Section C</b>	
<b>Required Client Information:</b>		<b>Required Project Information:</b>		<b>Invoice Information:</b>	
Company: Alabama Power Company	Report To: Brooke Caton	Company Name: Alabarta Power Co.	Attention: Brooke Caton	Regulatory Agency:	
Address: 744 Highway 87 GSC Bldg #8	Copy To: Renee Jernigan & Blaine Denton	Address: 744 Highway 87 GSC Bldg #8		State / Location:	AL
Calera, AL 35040					
Email To: <a href="mailto:ibwill@southernco.com">ibwill@southernco.com</a>	Purchase Order #: APC87119-0001	Pace Quote: CCR			
Phone: 205-684-6101   Fax:	Project Name: Plant Greene County Ash Pond	Pace Project Manager: Skyler Richmond			
Requested Due Date: 28 days	Project Number: WNWGREAP_1430	Pace Profile #: 16788			

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Unpreserved	H2SO4	HNO3	Preservatives	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	
									DATE	TIME						EPA 9315	EPA 9320	Total Radium Sum	TEMP in C		
1	MW-53H	APCO-GC-AP-MW-53H	APCO_GreeneCounty_AshPond				GW	G	10/31/2023	12:29	1					X	X	X	X		
2	MW-57H	APCO-GC-AP-MW-57H	APCO_GreeneCounty_AshPond				GW	G	10/31/2023	13:20	1					X	X	X	X		
3	MW-45H	APCO-GC-AP-MW-45H	APCO_GreeneCounty_AshPond				GW	G	10/31/2023	14:27	1					X	X	X	X		
4	MW-41H	APCO-GC-AP-MW-41H	APCO_GreeneCounty_AshPond				GW	G	10/31/2023	15:17	1					X	X	X	X		
5	MW-41H Dup	APCO-GC-AP-MW-41H	APCO_GreeneCounty_AshPond	X			GW	G	10/31/2023	15:17	1					X	X	X	X		
6	MW-39H	APCO-GC-AP-MW-39H	APCO_GreeneCounty_AshPond				GW	G	10/31/2023	16:17	1					X	X	X	X		
7	MW-10	APCO-GC-AP-MW-10	APCO_GreeneCounty_AshPond				GW	G	11/1/2023	11:10	1					X	X	X	X		
8	MW-14	APCO-GC-AP-MW-14	APCO_GreeneCounty_AshPond				GW	G	11/1/2023	11:57	1					X	X	X	X		
9	MW-25	APCO-GC-AP-MW-25	APCO_GreeneCounty_AshPond				GW	G	11/1/2023	13:05	1					X	X	X	X		
10	MW-34HA	APCO-GC-AP-MW-34HA	APCO_GreeneCounty_AshPond				GW	G	11/1/2023	14:15	1					X	X	X	X		
11	EB-1	APCO-GC-AP-EB-01	APCO_GreeneCounty_AshPond				GW	G	11/1/2023	14:45	1					X	X	X	X		
12																					

<b>ADDITIONAL COMMENTS</b>	<b>RELINQUISHED BY / AFFILIATION</b>	<b>DATE</b>	<b>TIME</b>	<b>ACCEPTED BY / AFFILIATION</b>	<b>DATE</b>	<b>TIME</b>	<b>SAMPLE CONDITIONS</b>
	Brooke Caton/ APC GTL	11/2/2023	15:30	<i>[Signature]</i>	11/6/23	10:30	

**W0#: 30636707**

RM: SCR Due Date: 12/06/23

CLIENT: ALABAMA PWR

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SAMPLER NAME AND SIGNATURE  
PRINT Name of SAMPLER:  
SIGNATURE of SAMPLER:  
DATE Signed:

DC#\_Title: ENV-FRM-GBUR-0088 v06\_Sample Condition Upon Receipt-  
Pittsburgh

Effective Date: 09/20/2023



**WO# : 30636707**

PM: SCR Due Date: 12/06/23  
CLIENT: ALABAMA PWR

Client Name: Alabama Power

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking Number: 701768146668

Examined By: PS 11/7/23  
Labeled By: PS 11/7/23  
Temped By: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  Yes  No    Seals Intact:  Yes  No

Thermometer Used: \_\_\_\_\_ Type of Ice: Wet Blue None

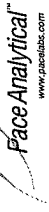
Cooler Temperature: Observed Temp \_\_\_\_\_ °C    Correction Factor: \_\_\_\_\_ °C    Final Temp: \_\_\_\_\_ °C

Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot#	D.P.D. Residual Chlorine Lot #
				<u>LRS-4801</u>	_____
Chain of Custody Present	/				1.
Chain of Custody Filled Out: -Were client corrections present on COC	/				2.
Chain of Custody Relinquished	/				3.
Sampler Name & Signature on COC:	/				4.
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	/			<u>BD20112 MW-S3H listed twice on COC.</u>	5.
Samples Arrived within Hold Time:	/				6.
Short Hold Time Analysis (<72hr remaining):		/			7.
Rush Turn Around Time Requested:		/			8.
Sufficient Volume:	/				9.
Correct Containers Used: -Pace Containers Used	/				10.
Containers Intact:	/				11.
Orthophosphate field filtered:			/		12.
Hex Cr Aqueous samples field filtered:			/		13.
Organic Samples checked for dechlorination			/		14.
Filtered volume received for dissolved tests:			/		15.
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	/			<u>PHC8</u>	16.
All containers meet method preservation requirements:	/			Initial when completed <u>PS</u> Lot# of added Preservative	Date/Time of Preservation
8260C/D: Headspace in VOA Vials (> 6mm)			/		17.
624.1: Headspace in VOA Vials (0mm)			/		18.
Trip Blank Present:			/	Trip blank custody seal present? YES or NO	
Rad Samples Screened <.05 mrem/hr.	/			Initial when completed <u>PS</u> Date: <u>11/6/23</u>	Survey Meter SN:
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: VAL  
Date: 11/20/2023  
Worklist: 76366  
Matrix: WT

Method Blank Assessment	
MB Sample ID	3068448
MB concentration:	0.140
M/B 2 Sigma CSU:	0.291
MB MDC:	0.643
MB Numerical Performance Indicator:	0.95
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		
LCS#	(Y or N)?	N
LCS76366		LCS76366
Count Date:	11/28/2023	
Spike ID:	23-043	
Decay Corrected Spike Concentration (pCi/mL):	38.852	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.816	
Target Conc. (pCi/L, g, F):	4.759	
Uncertainty (Calculated):	0.233	
Result (pCi/L, g, F):	3.849	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.973	
Numerical Performance Indicator:	-1.78	
Percent Recovery:	80.87%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*Nov/30/23*

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		10/25/2023	
Sample I.D.:		30636707023	
Sample MS I.D.:		30636707024	
Sample MSD I.D.:		30636707025	
Spike I.D.:		23-043	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		39.292	
Spike Volume Used in MS (mL):		0.20	
Spike Volume Used in MSD (mL):		0.20	
MS Aliquot (L, g, F):		0.806	
MS Target Conc. (pCi/L, g, F):		9.745	
MSD Aliquot (L, g, F):		0.807	
MSD Target Conc. (pCi/L, g, F):		9.744	
MS Spike Uncertainty (calculated):		0.477	
MSD Spike Uncertainty (calculated):		0.477	
Sample Result 2 Sigma CSU (pCi/L, g, F):		-0.112	
Sample Matrix Spike Result:		0.282	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		6.492	
Sample Matrix Spike Duplicate Result:		1.369	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		8.823	
MS Numerical Performance Indicator:		1.800	
MSD Numerical Performance Indicator:		-4.169	
MS Percent Recovery:		67.77%	
MSD Percent Recovery:		91.70%	
MS Status vs Numerical Indicator:		Fail****	
MSD Status vs Numerical Indicator:		Pass	
MS Status vs Recovery:		Pass	
MSD Status vs Recovery:		Pass	
MS/MSD Upper % Recovery Limits:		135%	
MS/MSD Lower % Recovery Limits:		60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30636707023
Sample MS I.D.:	30636707024
Sample MSD I.D.:	30636707025
Sample Matrix Spike Result:	6.492
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.369
Sample Matrix Spike Duplicate Result:	8.823
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.800
Duplicate Numerical Performance Indicator:	-2.021
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	30.02%
MS/MSD Duplicate Status vs Numerical Indicator:	Warning
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

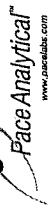
*MS/MSD 90 Rec passes 77300*

~~## If all other QC criteria pass, this batch is acceptable. The matrix spike duplicate result indicates a possible bias for this sample only and may not be applicable to any other samples in this analytical batch.~~

*[Handwritten signature]*



# Quality Control Sample Performance Assessment



*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-228  
Analyst: JJS1  
Date: 11/21/2023  
Worklist: 76367  
Matrix: WT

Method Blank Assessment	
MB Sample ID	3068450
MB concentration:	0.407
M/B 2 Sigma CSU:	0.320
MB MDC:	0.638
MB Numerical Performance Indicator:	2.49
MB Status vs. Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	N
	LCS76367	LCSD76367
Count Date:	11/30/2023	
Spike I.D.:	23-043	
Decay Corrected Spike Concentration (pCi/mL):	38.827	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.819	
Target Conc. (pCi/L, g, F):	4.742	
Uncertainty (Calculated):	0.232	
Result (pCi/L, g, F):	3.807	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.905	
Numerical Performance Indicator:	-1.96	
Percent Recovery:	80.29%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

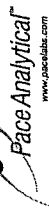
Comments:

*11/21/23*

MS/MSD 1	MS/MSD 2
10/25/2023	
30636707027	
30636707028	
30636707029	
23-043	
39.291	
0.20	
0.20	
0.806	
9.746	
0.808	
9.727	
0.478	
0.477	
0.726	
0.363	
9.548	
1.900	
9.012	
1.804	
-0.907	
-1.483	
90.52%	
85.19%	
Pass	
Pass	
Pass	
Pass	
135%	
60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30636707027
Sample MS I.D.:	30636707028
Sample MSD I.D.:	30636707029
Sample Matrix Spike Result:	9.548
Sample Matrix Spike Duplicate Result:	1.900
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	9.012
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.804
Duplicate Numerical Performance Indicator:	0.401
Duplicate Numerical Performance Indicator:	6.08%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	Pass
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
 Analyst: ZPC  
 Date: 11/21/2023  
 Worklist: 76368  
 Matrix: WT

Method Blank Assessment	
MB Sample ID	3068451
MB concentration:	0.156
MB 2 Sigma CSU:	0.295
MB MDC:	0.648
MB Numerical Performance Indicator:	1.03
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD76368	LCSD76368
Count Date:	12/1/2023
Spike I.D.:	23-043
Decay Corrected Spike Concentration (pCi/mL):	38.813
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.817
Target Conc. (pCi/L, g, F):	4.748
Uncertainty (Calculated):	0.233
Result (pCi/L, g, F):	4.751
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	1.048
Numerical Performance Indicator:	100.07%
Percent Recovery:	N/A
Status vs Numerical Indicator:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		10/25/2023	
Sample I.D.:		30636707036	
Sample MS I.D.:		30636707037	
Sample MSD I.D.:		30636707038	
Spike I.D.:		23-043	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		39.292	
Spike Volume Used in MS (mL):		0.20	
Spike Volume Used in MSD (mL):		0.20	
MS Aliquot (L, g, F):		0.806	
MS Target Conc. (pCi/L, g, F):		9.750	
MSD Aliquot (L, g, F):		0.808	
MSD Target Conc. (pCi/L, g, F):		9.724	
MS Spike Uncertainty (calculated):		0.478	
MSD Spike Uncertainty (calculated):		0.478	
Sample Result:		0.356	
Sample Result 2 Sigma CSU (pCi/L, g, F):		0.349	
Sample Matrix Spike Result:		8.195	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		1.634	
Sample Matrix Spike Duplicate Result:		7.558	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		1.539	
MS Numerical Performance Indicator:		-2.155	
MSD Numerical Performance Indicator:		-2.999	
MS Percent Recovery:		80.39%	
MSD Percent Recovery:		74.06%	
MS Status vs Numerical Indicator:		Warning	
MSD Status vs Numerical Indicator:		Warning	
MS Status vs Recovery:		Pass	
MSD Status vs Recovery:		Pass	
MS/MSD Upper % Recovery Limits:		135%	
MS/MSD Lower % Recovery Limits:		60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30636707036
Sample MS I.D.:	30636707037
Sample MSD I.D.:	30636707038
Matrix Spike Result:	8.195
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.634
Sample Matrix Spike Duplicate Result:	7.558
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.539
Duplicate Numerical Performance Indicator:	0.556
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries):	8.20%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

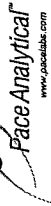
## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*M 12/4/23*

*MS/MSD 12/1/23*

# Quality Control Sample Performance Assessment



Analyst *Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-228  
Analyst: JJS1  
Date: 11/16/2023  
Worklist: 76365  
Matrix: WT

Method Blank Assessment	
MB Sample ID	3068447
MB concentration:	0.257
MB 2 Sigma CSU:	0.321
MB MDC:	0.679
MB Numerical Performance Indicator:	1.57
MB Status vs. Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS76365	NCS76365
Count Date:	11/21/2023	LCS76365
Spike I.D.:	23-043	NCS76365
Decay Corrected Spike Concentration (pCi/mL):	38.944	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.815	
Target Conc. (pCi/L, g, F):	4.776	
Uncertainty (Calculated):	0.234	
Result (pCi/L, g, F):	4.454	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.998	
Numerical Performance Indicator:	-0.61	
Percent Recovery:	93.28%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below #
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	10/24/2023	
Sample I.D.:	30636305006	
Sample MS I.D.:	30636305007	
Sample MSD I.D.:	30636305008	
Spike I.D.:	23-043	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.306	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.801	
MS Target Conc. (pCi/L, g, F):	9.817	
MSD Aliquot (L, g, F):	0.801	
MSD Target Conc. (pCi/L, g, F):	9.814	
MS Spike Uncertainty (calculated):	0.481	
MSD Spike Uncertainty (calculated):	0.481	
Sample Result:	0.738	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.388	
Sample Matrix Spike Result:	11.636	
Sample Matrix Spike Duplicate Result:	2.265	
Sample Matrix Spike Duplicate Result:	11.380	
MS Numerical Performance Indicator:	2.232	
MS Numerical Performance Indicator:	0.903	
MSD Numerical Performance Indicator:	0.700	
MS Percent Recovery:	111.01%	
MSD Percent Recovery:	108.43%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30636305006
Sample MS I.D.:	30636305007
Sample MSD I.D.:	30636305008
Matrix Matrix Spike Result:	11.636
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.265
Sample Matrix Spike Duplicate Result:	11.380
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.232
Duplicate Numerical Performance Indicator:	0.158
Duplicate Numerical Performance Indicator:	2.36%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*Handwritten notes:*  
 11-22-23  
 VAZ  
 11/22/23

# Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
Analyst: SLC  
Date: 11/13/2023  
Worklist: 76235  
Matrix: WT

Method Blank Assessment	
MB Sample ID	3061589
MB concentration:	-0.013
M/B 2 Sigma CSU:	0.084
MB MDC:	0.234
MB Numerical Performance Indicator:	-0.30
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS76235	YCS76235
Count Date:	11/30/2023	11/30/2023
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.028	25.028
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.502	0.502
Target Conc. (pCi/L, g, F):	4.985	4.985
Uncertainty (Calculated):	0.235	0.234
Result (pCi/L, g, F):	4.636	4.694
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.820	0.824
Numerical Performance Indicator:	-0.81	-0.67
Percent Recovery:	92.90%	94.17%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	LCS76235	YCS76235
Sample I.D.:	LCS76235	LCS76235
Duplicate Sample I.D.:	4.636	4.636
Sample Result (pCi/L, g, F):	0.820	0.820
Sample Duplicate Result (pCi/L, g, F):	4.694	4.694
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.824	0.824
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	NO	NO
Are sample and/or duplicate results below RL?	-0.099	-0.099
Duplicate Numerical Performance Indicator:	1.36%	1.36%
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	Pass	Pass
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

\*\*\*\*if all other QC criteria pass, this batch is acceptable. The matrix spike duplicate result indicates a possible bias for this sample only and may not be applicable to any other samples in this analytical batch.

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	10/25/2023	
Sample I.D.:	30636707023	
Sample MS I.D.:	30636707024	
Sample MSD I.D.:	30636707025	
Spike I.D.:	23-014	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	25.029	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.202	
MS Target Conc. (pCi/L, g, F):	24.771	
MSD Aliquot (L, g, F):	0.208	
MSD Target Conc. (pCi/L, g, F):	24.021	
MS Spike Uncertainty (calculated):	1.164	
MSD Spike Uncertainty (calculated):	1.129	
Sample Result:	0.117	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.210	
Sample Matrix Spike Result:	18.901	
Sample Matrix Spike Duplicate Result:	3.139	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	15.005	
Sample Matrix Spike Duplicate Result:	2.514	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	-3.498	
MS Numerical Performance Indicator:	-6.477	
MSD Numerical Performance Indicator:	75.83%	
MS Percent Recovery:	61.98%	
MSD Percent Recovery:	Fail****	
MS Status vs Numerical Indicator:	Fail****	
MSD Status vs Numerical Indicator:	Fail****	
MS Status vs Recovery:	N/A	
MSD Status vs Recovery:	N/A	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30636707023
Sample MS I.D.:	30636707024
Sample MSD I.D.:	30636707025
Sample Matrix Spike Result:	18.901
Sample Matrix Spike Duplicate Result:	3.139
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	15.005
Sample Matrix Spike Duplicate Result:	2.514
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.899
Duplicate Numerical Performance Indicator:	20.10%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	Pass
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

*Navigation*

# MSD 102-PPD OK

JAM 12/1/23

# Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226  
Analyst: SLC  
Date: 11/13/2023  
Worklist: 76236  
Matrix: WT

Method Blank Assessment	
MB Sample ID	3061590
MB concentration:	0.125
M/B 2 Sigma CSU:	0.105
MB MDC:	0.193
MB Numerical Performance Indicator:	2.34
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	
Count Date:	LCS (Y or N)?
11/30/2023	Y
23-014	LCS D76236
25.028	11/30/2023
0.10	23-014
0.501	25.028
4.993	0.10
0.235	0.503
4.901	4.976
0.853	0.234
-0.20	4.911
98.16%	0.847
Pass	-0.14
N/A	98.69%
125%	Pass
75%	N/A

Sample Matrix Spike Control Assessment	
Sample Collection Date:	MS/MSD 1
10/25/2023	10/25/2023
Sample I.D.:	30636707027
Sample MS I.D.:	30636707028
Sample MSD I.D.:	30636707029
Spike I.D.:	23-014
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	25.029
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	0.20
MS Aliquot (L, g, F):	0.214
MS Target Conc. (pCi/L, g, F):	23.376
MSD Aliquot (L, g, F):	0.214
MSD Target Conc. (pCi/L, g, F):	23.436
MSD Spike Uncertainty (calculated):	1.099
MSD Spike Uncertainty (calculated):	1.101
Sample Result: 2 Sigma CSU (pCi/L, g, F):	0.294
Sample Matrix Spike Result:	0.223
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	17.261
Sample Matrix Spike Duplicate Result:	2.830
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	22.158
MS Numerical Performance Indicator:	3.574
MS Percent Recovery:	-0.822
MS Status vs Numerical Indicator:	72.58%
MS Status vs Recovery:	93.30%
MS/MSD Upper % Recovery Limits:	Fail***
MS/MSD Lower % Recovery Limits:	Pass
% RPD Limit:	N/A
	N/A
	125%
	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS (Y or N)?
LCS76236	Y
LCS D76236	11/30/2023
4.901	23-014
0.853	25.028
4.911	0.10
0.847	0.503
NO	4.976
-0.016	0.234
0.54%	4.911
Pass	0.847
N/A	-0.14
125%	98.69%
75%	Pass

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	MS/MSD 1
30636707027	10/25/2023
30636707028	30636707027
30636707029	30636707028
17.261	17.261
2.830	2.830
22.158	22.158
3.574	3.574
-2.106	-2.106
24.97%	24.97%
Warning	Warning
N/A	N/A
25%	25%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*[Handwritten signature]*

\*\*\*\*if all other QC criteria pass, this batch is acceptable. The matrix spike duplicate result indicates a possible bias for this sample only and may not be applicable to any other samples in this analytical batch.

\* MS fails low - RPD ok

UAM 12/1/23

# Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
Analyst: SLC  
Date: 11/15/2023  
Worklist: 76333  
Matrix: WT

Method Blank Assessment	
MB Sample ID	3067421
MB concentration:	0.108
M/B 2 Sigma CSU:	0.109
MB MDC:	0.217
MB Numerical Performance Indicator:	1.95
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment		LCS D (Y or N)?	Y
Count Date:		LCS D76333	
Spike I.D.:		11/30/2023	
Decay Corrected Spike Concentration (pCi/mL):		23-014	
Volume Used (mL):		25.028	
Aliquot Volume (L, g, F):		0.10	0.10
Target Conc. (pCi/L, g, F):		0.502	0.501
Uncertainty (Calculated):		4.989	4.992
Result (pCi/L, g, F):		0.234	0.235
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):		5.049	4.854
Numerical Performance Indicator:		0.881	0.852
Percent Recovery:		0.13	-0.31
Status vs Numerical Indicator:		101.20%	97.22%
Upper % Recovery Limits:		Pass	Pass
Lower % Recovery Limits:		N/A	N/A
		125%	125%
		75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS76333
Duplicate Sample I.D.:	LCS D76333
Sample Result (pCi/L, g, F):	5.049
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.881
Sample Duplicate Result (pCi/L, g, F):	4.854
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.852
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.312
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.02%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAM 12/1/23

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.: MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

# Quality Control Sample Performance Assessment



Analyt Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
Analyst: SLC  
Date: 11/15/2023  
Worklist: 76237  
Matrix: DW

Method Blank Assessment	
MB Sample ID	3061591
MB concentration:	-0.012
M/B Counting Uncertainty:	0.080
MB MDC:	0.224
MB Numerical Performance Indicator:	-0.30
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS76237	Y
Count Date:	11/30/2023	LCS76237
Spike I.D.:	23-014	11/30/2023
Decay Corrected Spike Concentration (pCi/mL):	25.028	23-014
Volume Used (mL):	0.10	25-028
Aliquot Volume (L, g, F):	0.512	0.10
Target Conc. (pCi/L, g, F):	4.889	0.513
Uncertainty (Calculated):	0.230	4.880
Result (pCi/L, g, F):	4.574	0.229
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.516	5.314
Numerical Performance Indicator:	-1.09	0.516
Status vs Numerical Indicator:	93.56%	1.51
Upper % Recovery Limits:	N/A	108.89%
Lower % Recovery Limits:	Pass	N/A
	125%	Pass
	75%	75%

Duplicate Sample Assessment	LCS76237	Y
Sample I.D.:	LCS76237	11/30/2023
Duplicate Sample I.D.:	4.574	23-014
Sample Result Counting Uncertainty (pCi/L, g, F):	0.516	25-028
Sample Duplicate Result (pCi/L, g, F):	5.314	0.10
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.516	0.513
Are sample and/or duplicate results below RL?	NO	4.880
Duplicate Numerical Performance Indicator:	-1.985	0.229
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.14%	5.314
Duplicate Status vs Numerical Indicator:	N/A	0.516
Duplicate Status vs RPD:	Pass	-1.985
% RPD Limit:	25%	15.14%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

12-1-23

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	10/25/2023	
Sample I.D.:	30636707036	
Sample MS I.D.:	30636707037	
Sample MSD I.D.:	30636707038	
Spike I.D.:	23-014	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	25.029	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.203	
MS Target Conc. (pCi/L, g, F):	24.605	
MSD Aliquot (L, g, F):	0.209	
MSD Target Conc. (pCi/L, g, F):	23.947	
MS Spike Uncertainty (calculated):	1.156	
MSD Spike Uncertainty (calculated):	1.126	
Sample Result:	-0.014	
Sample Matrix Spike Result:	0.174	
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	28.091	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.800	
Sample Matrix Spike Duplicate Result:	24.608	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.612	
MS Numerical Performance Indicator:	3.195	
MSD Numerical Performance Indicator:	0.670	
MS Percent Recovery:	114.22%	
MSD Percent Recovery:	102.82%	
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
Sample I.D.:	30636707036	
Sample MS I.D.:	30636707037	
Sample MSD I.D.:	30636707038	
Sample Matrix Spike Result:	28.091	
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	1.800	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	24.608	
Sample Matrix Spike Duplicate Result:	1.612	
Duplicate Numerical Performance Indicator:	2.825	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	10.51%	
MS/MSD Duplicate Status vs Numerical Indicator:	N/A	
MS/MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

12/1/23



December 01, 2023

Brooke Caton  
Alabama Power  
744 Highway 87  
Calera, AL 35040

RE: Project: WMWGREAP\_1429  
Pace Project No.: 30636305

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 01, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Skyler C. Richmond  
skyler.richmond@pacelabs.com  
(724)850-5600  
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power  
Renee Jernigan, Alabama Power



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: WMWGREAP\_1429  
Pace Project No.: 30636305

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### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
ANABISO/IEC 17025:2017 Rad Cert#: L24170  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 2950  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA010  
Louisiana DEQ/TNI Certification #: 04086  
Maine Certification #: 2023021  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572023-03  
New Hampshire/TNI Certification #: 297622  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-015  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: TN02867  
Texas/TNI Certification #: T104704188-22-18  
Utah/TNI Certification #: PA014572223-14  
USDA Soil Permit #: 525-23-67-77263  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad

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### SAMPLE SUMMARY

Project: WMWGREAP\_1429  
Pace Project No.: 30636305

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30636305001	BD19571 MW-62HO	Water	10/23/23 14:31	11/01/23 10:20
30636305002	BD19572 MW-63HO	Water	10/23/23 16:04	11/01/23 10:20
30636305003	BD19573 FB-1	Water	10/23/23 16:20	11/01/23 10:20
30636305004	BD19574 MW-47HO	Water	10/24/23 08:59	11/01/23 10:20
30636305005	BD19575 MW-47HO Dup	Water	10/24/23 08:59	11/01/23 10:20
30636305006	BD19576 MW-50HO	Water	10/24/23 10:00	11/01/23 10:20
30636305007	BD19576 MW-50HO MS	Water	10/24/23 10:00	11/01/23 10:20
30636305008	BD19576 MW-50HO MSD	Water	10/24/23 10:00	11/01/23 10:20
30636305009	BD19577 MW-60HO	Water	10/24/23 11:11	11/01/23 10:20
30636305010	BD19578 MW-61HO	Water	10/24/23 12:05	11/01/23 10:20
30636305011	BD19579 MW-59HO	Water	10/24/23 12:50	11/01/23 10:20
30636305012	BD19580 MW-55HO	Water	10/24/23 14:37	11/01/23 10:20
30636305013	BD19581 EB-1	Water	10/24/23 15:00	11/01/23 10:20

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### SAMPLE ANALYTE COUNT

Project: WMWGREAP\_1429  
 Pace Project No.: 30636305

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30636305001	BD19571 MW-62HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636305002	BD19572 MW-63HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636305003	BD19573 FB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636305004	BD19574 MW-47HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636305005	BD19575 MW-47HO Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636305006	BD19576 MW-50HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636305007	BD19576 MW-50HO MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30636305008	BD19576 MW-50HO MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30636305009	BD19577 MW-60HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636305010	BD19578 MW-61HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636305011	BD19579 MW-59HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636305012	BD19580 MW-55HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30636305013	BD19581 EB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

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### SAMPLE ANALYTE COUNT

Project: WMWGREAP\_1429  
Pace Project No.: 30636305

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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
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PASI-PA = Pace Analytical Services - Greensburg

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## PROJECT NARRATIVE

Project: WMWGREAP\_1429  
Pace Project No.: 30636305

---

**Method:** EPA 9315  
**Description:** 9315 Total Radium  
**Client:** Alabama Power  
**Date:** December 01, 2023

### General Information:

13 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1429  
Pace Project No.: 30636305

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**Method:** EPA 9320  
**Description:** 9320 Radium 228  
**Client:** Alabama Power  
**Date:** December 01, 2023

### General Information:

13 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1429  
Pace Project No.: 30636305

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**Method:** Total Radium Calculation  
**Description:** Total Radium 228+226  
**Client:** Alabama Power  
**Date:** December 01, 2023

### General Information:

11 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1429  
 Pace Project No.: 30636305

**Sample: BD19571 MW-62HO**      **Lab ID: 30636305001**      Collected: 10/23/23 14:31      Received: 11/01/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.206U ± 0.234 (0.476)</b> <b>C:92% T:NA</b>	pCi/L	11/30/23 10:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.628U ± 0.398 (0.732)</b> <b>C:80% T:78%</b>	pCi/L	11/21/23 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.834U ± 0.632 (1.21)</b>	pCi/L	12/01/23 09:41	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1429  
 Pace Project No.: 30636305

**Sample: BD19572 MW-63HO**      **Lab ID: 30636305002**      Collected: 10/23/23 16:04      Received: 11/01/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0875U ± 0.224 (0.538)</b> <b>C:77% T:NA</b>	pCi/L	11/30/23 10:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.605U ± 0.416 (0.791)</b> <b>C:80% T:78%</b>	pCi/L	11/21/23 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.693U ± 0.640 (1.33)</b>	pCi/L	12/01/23 09:41	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1429  
 Pace Project No.: 30636305

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.102U ± 0.190 (0.434)</b> <b>C:89% T:NA</b>	pCi/L	11/30/23 10:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.0192U ± 0.349 (0.811)</b> <b>C:81% T:82%</b>	pCi/L	11/21/23 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.121U ± 0.539 (1.25)</b>	pCi/L	12/01/23 09:41	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1429  
 Pace Project No.: 30636305

**Sample: BD19574 MW-47HO**      **Lab ID: 30636305004**      Collected: 10/24/23 08:59      Received: 11/01/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0652U ± 0.194 (0.471)</b> <b>C:98% T:NA</b>	pCi/L	11/30/23 10:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.333U ± 0.328 (0.670)</b> <b>C:90% T:78%</b>	pCi/L	11/21/23 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.398U ± 0.522 (1.14)</b>	pCi/L	12/01/23 09:41	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1429  
 Pace Project No.: 30636305

**Sample: BD19575 MW-47HO Dup**    **Lab ID: 30636305005**    Collected: 10/24/23 08:59    Received: 11/01/23 10:20    Matrix: Water  
 PWS:    Site ID:    Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.252U ± 0.220 (0.397)</b> <b>C:88% T:NA</b>	pCi/L	11/30/23 10:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.164U ± 0.301 (0.661)</b> <b>C:90% T:80%</b>	pCi/L	11/21/23 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.416U ± 0.521 (1.06)</b>	pCi/L	12/01/23 09:41	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1429  
 Pace Project No.: 30636305

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BD19576 MW-50HO</b> <b>Lab ID: 30636305006</b> Collected: 10/24/23 10:00      Received: 11/01/23 10:20      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.130U ± 0.214 (0.477)</b> <b>C:87% T:NA</b>	pCi/L	11/30/23 10:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.738 ± 0.388 (0.682)</b> <b>C:88% T:78%</b>	pCi/L	11/21/23 11:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.868U ± 0.602 (1.16)</b>	pCi/L	12/01/23 09:41	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1429  
 Pace Project No.: 30636305

**Sample: BD19576 MW-50HO MS**      **Lab ID: 30636305007**      Collected: 10/24/23 10:00      Received: 11/01/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>97.65 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/30/23 10:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>111.01 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/21/23 11:11	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1429  
 Pace Project No.: 30636305

**Sample: BD19576 MW-50HO MSD**    **Lab ID: 30636305008**    Collected: 10/24/23 10:00    Received: 11/01/23 10:20    Matrix: Water  
 PWS:    Site ID:    Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>101.19 %REC 3.56RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/30/23 10:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>108.43 %REC 2.36RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/21/23 11:11	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1429  
 Pace Project No.: 30636305

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.181U ± 0.204 (0.411)</b> <b>C:95% T:NA</b>	pCi/L	11/30/23 10:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.367U ± 0.347 (0.696)</b> <b>C:84% T:77%</b>	pCi/L	11/21/23 11:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.548U ± 0.551 (1.11)</b>	pCi/L	12/01/23 09:41	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1429  
 Pace Project No.: 30636305

**Sample: BD19578 MW-61HO**      **Lab ID: 30636305010**      Collected: 10/24/23 12:05      Received: 11/01/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.191U ± 0.228 (0.477)</b> <b>C:97% T:NA</b>	pCi/L	11/30/23 10:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.201U ± 0.301 (0.648)</b> <b>C:87% T:82%</b>	pCi/L	11/21/23 11:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.392U ± 0.529 (1.13)</b>	pCi/L	12/01/23 09:41	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1429  
 Pace Project No.: 30636305

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BD19579 MW-59HO</b> <b>Lab ID: 30636305011</b> Collected: 10/24/23 12:50      Received: 11/01/23 10:20      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.416U ± 0.270 (0.454)</b> <b>C:100% T:NA</b>	pCi/L	11/30/23 10:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.342U ± 0.340 (0.700)</b> <b>C:84% T:82%</b>	pCi/L	11/21/23 11:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.758U ± 0.610 (1.15)</b>	pCi/L	12/01/23 09:41	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1429  
 Pace Project No.: 30636305

**Sample: BD19580 MW-55HO**      **Lab ID: 30636305012**      Collected: 10/24/23 14:37      Received: 11/01/23 10:20      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.289U ± 0.223 (0.375)</b> <b>C:96% T:NA</b>	pCi/L	11/30/23 10:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.352U ± 0.300 (0.597)</b> <b>C:86% T:84%</b>	pCi/L	11/21/23 11:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.641U ± 0.523 (0.972)</b>	pCi/L	12/01/23 09:41	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1429  
 Pace Project No.: 30636305

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BD19581 EB-1</b> <b>Lab ID: 30636305013</b> Collected: 10/24/23 15:00      Received: 11/01/23 10:20      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0572U ± 0.209 (0.512)</b> <b>C:97% T:NA</b>	pCi/L	11/30/23 10:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.759 ± 0.380 (0.640)</b> <b>C:88% T:80%</b>	pCi/L	11/21/23 11:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.816U ± 0.589 (1.15)</b>	pCi/L	12/01/23 09:41	7440-14-4	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1429  
 Pace Project No.: 30636305

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QC Batch:	627393	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30636305001, 30636305002, 30636305003, 30636305004, 30636305005, 30636305006, 30636305007, 30636305008, 30636305009, 30636305010, 30636305011, 30636305012, 30636305013

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METHOD BLANK: 3058146 Matrix: Water

Associated Lab Samples: 30636305001, 30636305002, 30636305003, 30636305004, 30636305005, 30636305006, 30636305007, 30636305008, 30636305009, 30636305010, 30636305011, 30636305012, 30636305013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0307 ± 0.0376 (0.154) C:89% T:NA	pCi/L	11/30/23 10:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1429  
 Pace Project No.: 30636305

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QC Batch:	629422	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30636305001, 30636305002, 30636305003, 30636305004, 30636305005, 30636305006, 30636305007, 30636305008, 30636305009, 30636305010, 30636305011, 30636305012, 30636305013

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METHOD BLANK: 3068447 Matrix: Water

Associated Lab Samples: 30636305001, 30636305002, 30636305003, 30636305004, 30636305005, 30636305006, 30636305007, 30636305008, 30636305009, 30636305010, 30636305011, 30636305012, 30636305013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.257 ± 0.321 (0.679) C:84% T:82%	pCi/L	11/21/23 11:52	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: WMWGREAP\_1429  
Pace Project No.: 30636305

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: WMWGREAP\_1429  
 Pace Project No.: 30636305

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30636305001	BD19571 MW-62HO	EPA 9315	627393		
30636305002	BD19572 MW-63HO	EPA 9315	627393		
30636305003	BD19573 FB-1	EPA 9315	627393		
30636305004	BD19574 MW-47HO	EPA 9315	627393		
30636305005	BD19575 MW-47HO Dup	EPA 9315	627393		
30636305006	BD19576 MW-50HO	EPA 9315	627393		
30636305007	BD19576 MW-50HO MS	EPA 9315	627393		
30636305008	BD19576 MW-50HO MSD	EPA 9315	627393		
30636305009	BD19577 MW-60HO	EPA 9315	627393		
30636305010	BD19578 MW-61HO	EPA 9315	627393		
30636305011	BD19579 MW-59HO	EPA 9315	627393		
30636305012	BD19580 MW-55HO	EPA 9315	627393		
30636305013	BD19581 EB-1	EPA 9315	627393		
30636305001	BD19571 MW-62HO	EPA 9320	629422		
30636305002	BD19572 MW-63HO	EPA 9320	629422		
30636305003	BD19573 FB-1	EPA 9320	629422		
30636305004	BD19574 MW-47HO	EPA 9320	629422		
30636305005	BD19575 MW-47HO Dup	EPA 9320	629422		
30636305006	BD19576 MW-50HO	EPA 9320	629422		
30636305007	BD19576 MW-50HO MS	EPA 9320	629422		
30636305008	BD19576 MW-50HO MSD	EPA 9320	629422		
30636305009	BD19577 MW-60HO	EPA 9320	629422		
30636305010	BD19578 MW-61HO	EPA 9320	629422		
30636305011	BD19579 MW-59HO	EPA 9320	629422		
30636305012	BD19580 MW-55HO	EPA 9320	629422		
30636305013	BD19581 EB-1	EPA 9320	629422		
30636305001	BD19571 MW-62HO	Total Radium Calculation	633199		
30636305002	BD19572 MW-63HO	Total Radium Calculation	633199		
30636305003	BD19573 FB-1	Total Radium Calculation	633199		
30636305004	BD19574 MW-47HO	Total Radium Calculation	633199		
30636305005	BD19575 MW-47HO Dup	Total Radium Calculation	633199		
30636305006	BD19576 MW-50HO	Total Radium Calculation	633199		
30636305009	BD19577 MW-60HO	Total Radium Calculation	633199		
30636305010	BD19578 MW-61HO	Total Radium Calculation	633199		
30636305011	BD19579 MW-59HO	Total Radium Calculation	633199		
30636305012	BD19580 MW-55HO	Total Radium Calculation	633199		
30636305013	BD19581 EB-1	Total Radium Calculation	633199		

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.


Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama Power Company	Report To:	Brooke Catton	Attention:	Brooke Catton
Address:	744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To:	Renee Jernigan & Blaine Denton	Company Name:	Alabama Power Co.
Email To:	tbwill@southernco.com	Purchase Order #:	APC87119-0001	Address:	744 Highway 87 GSC Bldg #8 CCR
Phone:	205-664-6101	Project Name:	Plant Greene County Ash Pond	Pace Quote:	Skyler Richmond
Requested Due Date:	28 days	Project Number:	WMWGREAT_1429	Pace Project Manager:	16788
Regulatory Agency		State / Location		AL	

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		# OF CONTAINERS	Unpreserved	H2SO4	HNO3	Preservatives	Y/N	Requested Analysis: Filtered (Y/N)	EPA 9315	EPA 9320	Total Radium Sum	Residual Chlorine (Y/N)	
									START DATE	TIME												
1	BD19571	APCO-GC-AP-MW-62HO	APCO_GreeneCounty_AshPond				GW	G	10/23/2023	14:31	1			X		X	X	X	X		001	
2	BD19572	APCO-GC-AP-MW-63HO	APCO_GreeneCounty_AshPond				GW	G	10/23/2023	16:04	1			X		X	X	X	X		002	
3	BD19573	FB-1	APCO-GC-AP-FB-01				GW	G	10/23/2023	16:20	1			X		X	X	X	X		003	
4	BD19574	MW-47HO	APCO-GC-AP-MW-47HO				GW	G	10/24/2023	8:59	1			X		X	X	X	X		004	
5	BD19575	MW-47HO Dup	APCO-GC-AP-MW-47HO		x		GW	G	10/24/2023	8:59	1			X		X	X	X	X		005	
6	BD19576	MW-50HO	APCO-GC-AP-MW-50HO				GW	G	10/24/2023	10:00	3			X		X	X	X	X		006,007,008	
7	BD19577	MW-60HO	APCO-GC-AP-MW-60HO				GW	G	10/24/2023	11:11	1			X		X	X	X	X		009	
8	BD19578	MW-61HO	APCO-GC-AP-MW-61HO				GW	G	10/24/2023	12:05	1			X		X	X	X	X		010	
9	BD19579	MW-59HO	APCO-GC-AP-MW-59HO				GW	G	10/24/2023	12:50	1			X		X	X	X	X		011	
10	BD19580	MW-55HO	APCO-GC-AP-MW-55HO				GW	G	10/24/2023	14:37	1			X		X	X	X	X		012	
11	BD19581	EB-1	APCO-GC-AP-EB-01				GW	G	10/24/2023	15:00	1			X		X	X	X	X		013	
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Catton/ APC GTL	10/27/2023	9:46	<i>Phy PSL</i>	11/1/23	10:20	N Y Y

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	DATE Signed:
SIGNATURE of SAMPLER:	

**WO#: 30636305**



30636305

Received on \_\_\_\_\_  
 Sealed \_\_\_\_\_  
 Custody \_\_\_\_\_  
 (Y/N) \_\_\_\_\_  
 Cooler \_\_\_\_\_  
 Samples \_\_\_\_\_  
 Intact \_\_\_\_\_  
 (Y/N) \_\_\_\_\_



DC#\_Title: ENV-FRM-GBUR-0088 v06\_Sample Condition Upon Receipt-  
Pittsburgh

Effective Date: 09/20/2023

**WO# : 30636305**

PM: SCR

Due Date: 12/01/23

Client Name: Alabama Power

CLIENT: ALABAMA PWR

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Initial / Date

Tracking Number: 7017 6814 6201

Examined By: PS 11/13/23

Custody Seal on Cooler/Box Present:  Yes  No      Seals Intact:  Yes  No

Labeled By: PS 11/13/23

Thermometer Used:                           Type of Ice: Wet Blue (None)

Temped By:                     

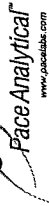
Cooler Temperature: Observed Temp                      °C      Correction Factor:                      °C      Final Temp:                      °C

Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot#	D.P.D. Residual Chlorine Lot #	
				<u>LES-4801</u>	<u>                    </u>	
Chain of Custody Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.		
Chain of Custody Filled Out: -Were client corrections present on COC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.		
Chain of Custody Relinquished	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.		
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.		
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.		
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.		
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.		
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.		
Correct Containers Used: -Pace Containers Used	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.		
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.		
Orthophosphate field filtered:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.		
Hex Cr Aqueous samples field filtered:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.		
Organic Samples checked for dechlorination	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.		
Filtered volume received for dissolved tests:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.		
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.		
All containers meet method preservation requirements:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed <u>PS</u>	Date/Time of Preservation	
				Lot# of added Preservative		
8260C/D: Headspace in VOA Vials (> 6mm)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.		
624.1: Headspace in VOA Vials (0mm)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18.		
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Trip blank custody seal present? YES or NO		
Rad Samples Screened <.05 mrem/hr.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed <u>PS</u>	Date: <u>11/11/23</u>	Survey Meter SN: <u>25014380</u>
Comments:						

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

# Quality Control Sample Performance Assessment



Analyst *Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-228  
Analyst: JJS1  
Date: 11/16/2023  
Worklist: 76365  
Matrix: WT

Method Blank Assessment	
MB Sample ID	3068447
MB concentration:	0.257
MB 2 Sigma CSU:	0.321
MB MDC:	0.679
MB Numerical Performance Indicator:	1.57
MB Status vs. Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?		N
	LCS76365	LCSD76365	
Count Date:	11/21/2023		
Spike I.D.:	23-043		
Decay Corrected Spike Concentration (pCi/mL):	38.944		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.815		
Target Conc. (pCi/L, g, F):	4.776		
Uncertainty (Calculated):	0.234		
Result (pCi/L, g, F):	4.454		
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.998		
Numerical Performance Indicator:	-0.61		
Percent Recovery:	93.28%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	135%		
Lower % Recovery Limits:	60%		

Duplicate Sample Assessment	
Sample I.D.:	
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Duplicate Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Duplicate Duplicate Result (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30636305006
Sample MS I.D.:	30636305007
Sample MSD I.D.:	30636305008
Sample Collection Date:	10/24/2023
Sample I.D.:	30636305006
Sample MS I.D.:	30636305007
Sample MSD I.D.:	30636305008
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	23-043
Spike Volume Used in MS (mL):	39.306
MS Aliquot (L, g, F):	0.20
MS Target Conc. (pCi/L, g, F):	0.801
MS Numerical Performance Indicator:	9.817
MS Status vs. MDC:	0.801
MS Target Conc. (pCi/L, g, F):	9.814
MS Numerical Performance Indicator:	0.481
MS Status vs. Numerical Indicator:	0.481
MS/MSD Upper % Recovery Limits:	0.738
MS/MSD Lower % Recovery Limits:	0.388
MS/MSD Duplicate Status vs RPD:	11.636
% RPD Limit:	2.265
MS/MSD Duplicate Status vs RPD:	11.380
% RPD Limit:	2.232
MS/MSD Duplicate Status vs RPD:	0.903
% RPD Limit:	0.700
MS/MSD Duplicate Status vs RPD:	111.01%
% RPD Limit:	108.43%
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	135%
MS/MSD Duplicate Status vs RPD:	60%
% RPD Limit:	

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*Handwritten notes:*  
 11-22-23  
 VAZ  
 11/22/23

# Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226  
Analyst: SLC  
Date: 11/8/2023  
Worklist: 76176  
Matrix: WT

Method Blank Assessment	
MB Sample ID	3058146
MB concentration:	-0.031
M/B 2 Sigma CSU:	0.038
MB MDC:	0.154
MB Numerical Performance Indicator:	-1.60
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS76176	LCS76176
Count Date:	11/30/2023	11/30/2023
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.028	25.028
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.510	0.506
Target Conc. (pCi/L, g, F):	4.912	4.943
Uncertainty (Calculated):	0.231	0.232
Result (pCi/L, g, F):	4.401	4.744
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.767	0.829
Numerical Performance Indicator:	-1.25	-0.45
Percent Recovery:	89.60%	95.97%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS76176
Duplicate Sample I.D.:	LCS76176
Sample Result (pCi/L, g, F):	4.401
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.767
Sample Duplicate Result (pCi/L, g, F):	4.744
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.829
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.596
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	6.87%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*Handwritten signature*

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	10/24/2023	
Sample MS I.D.:	30636305006	
Sample MSD I.D.:	30636305007	
Spike I.D.:	23-014	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	25.029	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.206	
MS Aliquot (L, g, F):	24.341	
MS Target Conc. (pCi/L, g, F):	0.207	
MSD Aliquot (L, g, F):	24.212	
MSD Target Conc. (pCi/L, g, F):	1.144	
MS Spike Uncertainty (calculated):	1.138	
MSD Spike Uncertainty (calculated):	0.130	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.214	
Sample Matrix Spike Result:	23.899	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	3.851	
Sample Matrix Spike Duplicate Result:	24.629	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.956	
MS Numerical Performance Indicator:	-0.279	
MSD Numerical Performance Indicator:	0.137	
MS Percent Recovery:	97.65%	
MSD Percent Recovery:	101.19%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	N/A	
MSD Status vs Recovery:	N/A	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30636305006
Sample MS I.D.:	30636305007
Sample MSD I.D.:	30636305008
Sample Matrix Spike Result:	23.899
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	3.851
Sample Matrix Spike Duplicate Result:	24.629
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.956
Matrix Spike Duplicate Numerical Performance Indicator:	-0.259
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	3.56%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

UAM 11/30/23



November 28, 2023

Brooke Caton  
Alabama Power  
744 Highway 87  
Calera, AL 35040

RE: Project: WMWGREAP\_1428  
Pace Project No.: 30633936

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on October 26, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Skyler C. Richmond  
skyler.richmond@pacelabs.com  
(724)850-5600  
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power  
Renee Jernigan, Alabama Power



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: WMWGREAP\_1428  
Pace Project No.: 30633936

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### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
ANABISO/IEC 17025:2017 Rad Cert#: L24170  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 2950  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA010  
Louisiana DEQ/TNI Certification #: 04086  
Maine Certification #: 2023021  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572023-03  
New Hampshire/TNI Certification #: 297622  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-015  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: TN02867  
Texas/TNI Certification #: T104704188-22-18  
Utah/TNI Certification #: PA014572223-14  
USDA Soil Permit #: 525-23-67-77263  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: WMWGREAP\_1428  
Pace Project No.: 30633936

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30633936001	BD19310 MW-64HO	Water	10/18/23 10:47	10/26/23 10:00
30633936002	BD19311 MW-64HO Dup	Water	10/18/23 10:47	10/26/23 10:00
30633936003	BD19312 EB-1	Water	10/18/23 11:20	10/26/23 10:00
30633936004	BD19313 FB-1	Water	10/18/23 11:30	10/26/23 10:00
30633936005	BD19314 MW-46HO	Water	10/18/23 12:10	10/26/23 10:00
30633936006	BD19314 MW-46HO MS	Water	10/18/23 12:10	10/26/23 10:00
30633936007	BD19314 MW-46HO MSD	Water	10/18/23 12:10	10/26/23 10:00

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**SAMPLE ANALYTE COUNT**

Project: WMWGREAP\_1428  
 Pace Project No.: 30633936

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30633936001	BD19310 MW-64HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30633936002	BD19311 MW-64HO Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30633936003	BD19312 EB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30633936004	BD19313 FB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30633936005	BD19314 MW-46HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30633936006	BD19314 MW-46HO MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30633936007	BD19314 MW-46HO MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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## PROJECT NARRATIVE

Project: WMWGREAP\_1428  
Pace Project No.: 30633936

---

**Method:** EPA 9315  
**Description:** 9315 Total Radium  
**Client:** Alabama Power  
**Date:** November 28, 2023

### General Information:

7 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1428  
Pace Project No.: 30633936

---

**Method:** EPA 9320  
**Description:** 9320 Radium 228  
**Client:** Alabama Power  
**Date:** November 28, 2023

### General Information:

7 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1428  
Pace Project No.: 30633936

---

**Method:** Total Radium Calculation  
**Description:** Total Radium 228+226  
**Client:** Alabama Power  
**Date:** November 28, 2023

**General Information:**

5 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1428  
 Pace Project No.: 30633936

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.389U ± 0.268 (0.446)</b> <b>C:97% T:NA</b>	pCi/L	11/27/23 08:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.786 ± 0.412 (0.730)</b> <b>C:84% T:77%</b>	pCi/L	11/09/23 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.18U ± 0.680 (1.18)</b>	pCi/L	11/27/23 13:11	7440-14-4	

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1428  
 Pace Project No.: 30633936

**Sample: BD19311 MW-64HO Dup**    **Lab ID: 30633936002**    Collected: 10/18/23 10:47    Received: 10/26/23 10:00    Matrix: Water  
 PWS:    Site ID:    Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.364U ± 0.275 (0.500)</b> <b>C:99% T:NA</b>	pCi/L	11/27/23 08:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.48 ± 0.530 (0.776)</b> <b>C:84% T:75%</b>	pCi/L	11/09/23 12:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.84 ± 0.805 (1.28)</b>	pCi/L	11/27/23 13:11	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1428  
 Pace Project No.: 30633936

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: BD19312 EB-1</b> <b>Lab ID: 30633936003</b> Collected: 10/18/23 11:20      Received: 10/26/23 10:00      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.164U ± 0.192 (0.389)</b> <b>C:102% T:NA</b>	pCi/L	11/27/23 08:17	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.749U ± 0.421 (0.759)</b> <b>C:80% T:77%</b>	pCi/L	11/09/23 12:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.913U ± 0.613 (1.15)</b>	pCi/L	11/27/23 13:11	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1428  
 Pace Project No.: 30633936

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0596U ± 0.184 (0.447)</b> <b>C:99% T:NA</b>	pCi/L	11/27/23 08:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.805 ± 0.419 (0.721)</b> <b>C:84% T:72%</b>	pCi/L	11/09/23 12:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.865U ± 0.603 (1.17)</b>	pCi/L	11/27/23 13:11	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1428  
 Pace Project No.: 30633936

**Sample: BD19314 MW-46HO**      **Lab ID: 30633936005**      Collected: 10/18/23 12:10      Received: 10/26/23 10:00      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.244U ± 0.258 (0.528)</b> <b>C:93% T:NA</b>	pCi/L	11/27/23 08:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.623U ± 0.398 (0.727)</b> <b>C:80% T:74%</b>	pCi/L	11/09/23 12:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.867U ± 0.656 (1.26)</b>	pCi/L	11/27/23 13:11	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1428  
 Pace Project No.: 30633936

**Sample: BD19314 MW-46HO MS**      **Lab ID: 30633936006**      Collected: 10/18/23 12:10      Received: 10/26/23 10:00      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>99.78 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/27/23 08:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>93.98 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/09/23 12:40	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1428  
 Pace Project No.: 30633936

**Sample: BD19314 MW-46HO MSD**    **Lab ID: 30633936007**    Collected: 10/18/23 12:10    Received: 10/26/23 10:00    Matrix: Water  
 PWS:    Site ID:    Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>101.37 %REC 1.57RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/27/23 08:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>83.18 %REC 12.20RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/09/23 16:12	15262-20-1	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1428  
 Pace Project No.: 30633936

---

QC Batch:	626722	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30633936001, 30633936002, 30633936003, 30633936004, 30633936005, 30633936006, 30633936007

---

METHOD BLANK: 3054986 Matrix: Water

Associated Lab Samples: 30633936001, 30633936002, 30633936003, 30633936004, 30633936005, 30633936006, 30633936007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.624 ± 0.404 (0.766) C:82% T:75%	pCi/L	11/09/23 12:41	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1428  
 Pace Project No.: 30633936

---

QC Batch: 625947	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30633936001, 30633936002, 30633936003, 30633936004, 30633936005, 30633936006, 30633936007

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METHOD BLANK: 3051015 Matrix: Water

Associated Lab Samples: 30633936001, 30633936002, 30633936003, 30633936004, 30633936005, 30633936006, 30633936007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0171 ± 0.0412 (0.143) C:98% T:NA	pCi/L	11/27/23 08:15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: WMWGREAP\_1428  
Pace Project No.: 30633936

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: WMWGREAP\_1428  
 Pace Project No.: 30633936

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30633936001	BD19310 MW-64HO	EPA 9315	625947		
30633936002	BD19311 MW-64HO Dup	EPA 9315	625947		
30633936003	BD19312 EB-1	EPA 9315	625947		
30633936004	BD19313 FB-1	EPA 9315	625947		
30633936005	BD19314 MW-46HO	EPA 9315	625947		
30633936006	BD19314 MW-46HO MS	EPA 9315	625947		
30633936007	BD19314 MW-46HO MSD	EPA 9315	625947		
30633936001	BD19310 MW-64HO	EPA 9320	626722		
30633936002	BD19311 MW-64HO Dup	EPA 9320	626722		
30633936003	BD19312 EB-1	EPA 9320	626722		
30633936004	BD19313 FB-1	EPA 9320	626722		
30633936005	BD19314 MW-46HO	EPA 9320	626722		
30633936006	BD19314 MW-46HO MS	EPA 9320	626722		
30633936007	BD19314 MW-46HO MSD	EPA 9320	626722		
30633936001	BD19310 MW-64HO	Total Radium Calculation	632102		
30633936002	BD19311 MW-64HO Dup	Total Radium Calculation	632102		
30633936003	BD19312 EB-1	Total Radium Calculation	632102		
30633936004	BD19313 FB-1	Total Radium Calculation	632102		
30633936005	BD19314 MW-46HO	Total Radium Calculation	632102		

**REPORT OF LABORATORY ANALYSIS**

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.


<b>Section A</b> Required Client Information:	Company: Alabama Power Company Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040 Email To: fbwill@southernco.com Phone: 205-664-6101 Fax: Requested Due Date: 28 days	<b>Section B</b> Required Project Information:	Report To: Brooke Caton Copy To: Renee Jernigan & Blaine Denton Purchase Order #: APC87119-0001 Project Name: Plant Greene County Ash Pond Project Number: WMWGREAT_1428
<b>Section C</b> Invoice Information:	Attention: Brooke Caton Company Name: Alabama Power Co. Address: 744 Highway 87 GSC Bldg #8 Pace Quote: CCR Pace Project Manager: Skyler Richmond Pace Profile #: 16788	Regulatory Agency State / Location AL	

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	COLLECTED		Matrix Spike/Matrix Spike Duplicate	Field Filled	Matrix Code (see valid codes to left)	# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)	Total Radium Sum	Residual Chlorine (Y/N)
				START DATE	TIME									
1	BD19310	APCO-GC-AP-MMV-64HO	APCO_GreeneCounty_AshPond	10/18/2023	10:47			GW	1	X		X	X	001
2	BD19311	APCO-GC-AP-MMV-64HO	APCO_GreeneCounty_AshPond	10/18/2023	10:47	x		GW	1	X		X	X	002
3	BD19312	APCO-GC-AP-EB-01	APCO_GreeneCounty_AshPond	10/18/2023	11:20			GW	1	X		X	X	003
4	BD19313	APCO-GC-AP-FB-01	APCO_GreeneCounty_AshPond	10/18/2023	11:30			GW	1	X		X	X	004
5	BD19314	APCO-GC-AP-MMV-46HO	APCO_GreeneCounty_AshPond	10/18/2023	12:10	x		GW	3	X		X	X	005, 006, 007
6														
7														
8														
9														
10														
11														
12														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Caton / APC GTL	10/23/2023	14:40	<i>Brooke Caton</i>	10/26/23	1000	N Y Y

<b>SAMPLER NAME AND SIGNATURE</b>	
PRINT Name of SAMPLER:	DATE Signed:
SIGNATURE of SAMPLER:	

WO#: 30633936



22

DC#\_Title: ENV-FRM-GBUR-0088 v06\_Sample Condition Upon Receipt-  
Pittsburgh  
Effective Date: 09/20/2023  
WO#: 30633936



PM: SCR Due Date: 11/27/23  
CLIENT: ALABAMA PWR

Client Name: Alabama Power

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking Number: 7017 6814 5959

Initial / Date  
Examined By: PS 10/26/23  
Labeled By: PS 10/26/23  
Temped By:

Custody Seal on Cooler/Box Present:  Yes  No  
Seals Intact:  Yes  No  
Thermometer Used: \_\_\_\_\_ Type of Ice: Wet Blue None

Cooler Temperature: Observed Temp \_\_\_\_\_ °C Correction Factor: \_\_\_\_\_ °C Final Temp: \_\_\_\_\_ °C  
Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot# 10 PAN 1131	D.P.D. Residual Chlorine Lot #
Chain of Custody Present	/				
Chain of Custody Filled Out: -Were client corrections present on COC	/				
Chain of Custody Relinquished PS 10/26/23	X	/			
Sampler Name & Signature on COC:	/	/			
Sample Labels match COC: -Includes date/time/ID Matrix: WST	/				
Samples Arrived within Hold Time:	/				
Short Hold Time Analysis (<72hr remaining):		/			
Rush Turn Around Time Requested:		/			
Sufficient Volume:	/				
Correct Containers Used: -Pace Containers Used	/	/			
Containers Intact:	/				
Orthophosphate field filtered:			/		
Hex Cr Aqueous samples field filtered:			/		
Organic Samples checked for dechlorination			/		
Filtered volume received for dissolved tests:			/		
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	/				
All containers meet method preservation requirements:	/			PH < 2	
				Initial when completed PS	Date/Time of Preservation
				Lot# of added Preservative	
8260C/D: Headspace in VOA Vials (> 6mm)			/		
624.1: Headspace in VOA Vials (0mm)			/		
Trip Blank Present:			/		Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	/			Initial when completed PS	Date: 10/26/23 Survey Meter SN: 25014380
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.



# Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
Analyst: SLC  
Date: 11/11/2023  
Worklist: 76062  
Matrix: DW

Method Blank Assessment	
MB Sample ID	3051015
MB Concentration:	-0.017
MB Counting Uncertainty:	0.041
MB MDC:	0.143
MB Numerical Performance Indicator:	-0.81
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD76062	LCSD76062
Count Date:	11/27/2023
Spike I.D.:	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.028
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.509
Target Conc. (pCi/L, g, F):	4.918
Uncertainty (Calculated):	0.231
Result (pCi/L, g, F):	4.834
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.451
Numerical Performance Indicator:	-0.33
Percent Recovery:	98.28%
Status vs Numerical Indicator:	N/A
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	See Below ##
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Duplicate Result (pCi/L, g, F):	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

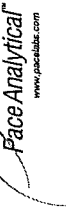
Sample Matrix Spike Control Assessment	
MS/MSD 1	MS/MSD 2
Sample Collection Date:	10/18/2023
Sample I.D.:	30633936005
Sample MS I.D.:	30634060001
Sample MSD I.D.:	30633936006
Spike I.D.:	30633936007
Spike I.D.:	23-014
Spike I.D.:	25.030
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	0.20
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	0.20
MS Aliquot (L, g, F):	0.207
MS Target Conc. (pCi/L, g, F):	24.176
MSD Aliquot (L, g, F):	0.207
MSD Target Conc. (pCi/L, g, F):	23.258
MS Spike Uncertainty (calculated):	1.136
MSD Spike Uncertainty (calculated):	1.093
Sample Result Counting Uncertainty (pCi/L, g, F):	0.244
Sample Matrix Spike Result:	0.336
Sample Matrix Spike Result:	24.960
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.610
Sample Matrix Spike Duplicate Result:	23.820
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.544
MS Numerical Performance Indicator:	-0.052
MSD Numerical Performance Indicator:	0.326
MS Percent Recovery:	99.78%
MSD Percent Recovery:	101.37%
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	N/A
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	Pass
MS/MSD Upper % Recovery Limits:	125%
MS/MSD Lower % Recovery Limits:	75%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30633936005
Sample MS I.D.:	30634060002
Sample MSD I.D.:	30633936006
Sample Matrix Spike Result:	24.960
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.610
Sample Matrix Spike Duplicate Result:	23.820
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.544
Duplicate Numerical Performance Indicator:	1.002
Duplicate Numerical Performance Indicator:	1.57%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	N/A
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

# Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: VAL  
Date: 11/6/2023  
Worklist: 76138  
Matrix: WT

**Method Blank Assessment**

MB Sample ID: 3054986  
 MB concentration: 0.624  
 M/B 2 Sigma CSU: 0.404  
 MB MDC: 0.766  
 MB Numerical Performance Indicator: 3.03  
 MB Status vs Numerical Indicator: Fail\*  
 MB Status vs. MDC: Pass

**Laboratory Control Sample Assessment**

LCSD (Y or N)?	N
LCSD76138	LCSD76138
Count Date: 11/9/2023	
Spike I.D.: 23-043	
Decay Corrected Spike Concentration (pCi/mL): 0.10	
Aliquot Volume (L, g, F): 0.818	
Target Conc. (pCi/L, g, F): 4.778	
Uncertainty (Calculated): 0.234	
Result (pCi/L, g, F): 4.377	
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F): 1.040	
Numerical Performance Indicator: -0.74	
Percent Recovery: 91.62%	
Status vs Numerical Indicator: N/A	
Status vs Recovery: Pass	
Upper % Recovery Limits: 135%	
Lower % Recovery Limits: 60%	

**Duplicate Sample Assessment**

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Sample I.D.:  
 Duplicate Sample I.D.:  
 Sample Result (pCi/L, g, F):  
 Sample Result 2 Sigma CSU (pCi/L, g, F):  
 Sample Duplicate Result (pCi/L, g, F):  
 Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):  
 Are sample and/or duplicate results below RL?  
 Duplicate Numerical Performance Indicator:  
 Duplicate RPD:  
 Duplicate Status vs Numerical Indicator:  
 Duplicate Status vs RPD:  
 % RPD Limit:

See Below #

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	10/18/2023	10/18/2023
Sample I.D.:	30633936005	30634060001
Sample MS I.D.:	30633936006	30634060002
Sample MSD I.D.:	30633936007	30634060003
Spike I.D.:	23-043	23-043
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	39.383	39.383
Spike Volume Used in MS (mL):	0.20	0.20
Spike Volume Used in MSD (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.809	0.805
MS Target Conc. (pCi/L, g, F):	9.742	9.783
MSD Aliquot (L, g, F):	0.809	0.807
MSD Target Conc. (pCi/L, g, F):	9.735	9.760
MS Spike Uncertainty (calculated):	0.477	0.479
MSD Spike Uncertainty (calculated):	0.477	0.478
Sample Result:	0.623	0.139
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.398	0.325
Sample Matrix Spike Result:	9.779	9.589
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.984	1.944
Sample Matrix Spike Duplicate Result:	8.720	12.306
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.786	2.464
MS Numerical Performance Indicator:	-0.552	-0.321
MSD Numerical Performance Indicator:	-1.697	1.864
MS Percent Recovery:	93.98%	96.60%
MSD Percent Recovery:	83.18%	124.66%
MS Status vs Numerical Indicator:	Pass	Pass
MSD Status vs Numerical Indicator:	Pass	Pass
MS Status vs Recovery:	Pass	Pass
MSD Status vs Recovery:	Pass	Pass
MS/MSD Upper % Recovery Limits:	135%	135%
MS/MSD Lower % Recovery Limits:	60%	60%

**Matrix Spike/Matrix Spike Duplicate Sample Assessment**

Sample I.D.:	30633936005	30634060001
Sample MS I.D.:	30633936006	30634060002
Sample MSD I.D.:	30633936007	30634060003
Sample Matrix Spike Result:	9.779	9.589
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.984	1.944
Sample Matrix Spike Duplicate Result:	8.720	12.306
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.786	2.464
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.777	-1.696
Duplicate Numerical Performance Indicator:	12.20%	25.36%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass	Pass
MS/MSD Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	36%	36%

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

\*if the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.

VAL  
11/10/23  
22  
11-10-23  
MS results < MDC, Pass  
01/10/23



November 28, 2023

Brooke Caton  
Alabama Power  
744 Highway 87  
Calera, AL 35040

RE: Project: WMWGREAP\_1427  
Pace Project No.: 30634060

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on October 26, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Skyler C. Richmond  
skyler.richmond@pacelabs.com  
(724)850-5600  
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power  
Renee Jernigan, Alabama Power



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: WMWGREAP\_1427  
Pace Project No.: 30634060

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### Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
ANABISO/IEC 17025:2017 Rad Cert#: L24170  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 2950  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA010  
Louisiana DEQ/TNI Certification #: 04086  
Maine Certification #: 2023021  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572023-03  
New Hampshire/TNI Certification #: 297622  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-015  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: TN02867  
Texas/TNI Certification #: T104704188-22-18  
Utah/TNI Certification #: PA014572223-14  
USDA Soil Permit #: 525-23-67-77263  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: WMWGREAP\_1427  
Pace Project No.: 30634060

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30634060001	BD19324 MW-52HO	Water	10/18/23 13:45	10/26/23 10:00
30634060002	BD19324 MW-52HO MS	Water	10/18/23 13:45	10/26/23 10:00
30634060003	BD19324 MW-52HO MSD	Water	10/18/23 13:45	10/26/23 10:00
30634060004	BD19320 MW-52HO Dup	Water	10/18/23 13:45	10/26/23 10:00
30634060005	BD19321 FB-1	Water	10/18/23 14:20	10/26/23 10:00
30634060006	BD19322 EB-1	Water	10/18/23 14:30	10/26/23 10:00

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: WMWGREAP\_1427  
 Pace Project No.: 30634060

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30634060001	BD19324 MW-52HO	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30634060002	BD19324 MW-52HO MS	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30634060003	BD19324 MW-52HO MSD	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30634060004	BD19320 MW-52HO Dup	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30634060005	BD19321 FB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30634060006	BD19322 EB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

**REPORT OF LABORATORY ANALYSIS**

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## PROJECT NARRATIVE

Project: WMWGREAP\_1427  
Pace Project No.: 30634060

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**Method:** EPA 9315  
**Description:** 9315 Total Radium  
**Client:** Alabama Power  
**Date:** November 28, 2023

### General Information:

6 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1427  
Pace Project No.: 30634060

---

**Method:** EPA 9320  
**Description:** 9320 Radium 228  
**Client:** Alabama Power  
**Date:** November 28, 2023

### General Information:

6 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: WMWGREAP\_1427  
Pace Project No.: 30634060

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**Method:** Total Radium Calculation  
**Description:** Total Radium 228+226  
**Client:** Alabama Power  
**Date:** November 28, 2023

**General Information:**

4 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1427  
 Pace Project No.: 30634060

**Sample: BD19324 MW-52HO**      **Lab ID: 30634060001**      Collected: 10/18/23 13:45      Received: 10/26/23 10:00      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.709 ± 0.352 (0.533)</b> <b>C:101% T:NA</b>	pCi/L	11/27/23 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.139U ± 0.325 (0.726)</b> <b>C:87% T:77%</b>	pCi/L	11/09/23 16:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.848U ± 0.677 (1.26)</b>	pCi/L	11/27/23 13:11	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1427  
 Pace Project No.: 30634060

**Sample: BD19324 MW-52HO MS**      **Lab ID: 30634060002**      Collected: 10/18/23 13:45      Received: 10/26/23 10:00      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>99.95 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/27/23 08:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>96.60 %REC ± NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/09/23 16:13	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1427  
 Pace Project No.: 30634060

**Sample: BD19324 MW-52HO MSD**    **Lab ID: 30634060003**    Collected: 10/18/23 13:45    Received: 10/26/23 10:00    Matrix: Water  
 PWS:    Site ID:    Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>96.70 %REC 3.30RPD ± NA</b> <b>(NA)</b> <b>C:NA T:NA</b>	pCi/L	11/27/23 08:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>124.66 %REC 25.36RPD ±</b> <b>NA (NA)</b> <b>C:NA T:NA</b>	pCi/L	11/09/23 16:13	15262-20-1	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1427  
 Pace Project No.: 30634060

**Sample: BD19320 MW-52HO Dup**      **Lab ID: 30634060004**      Collected: 10/18/23 13:45      Received: 10/26/23 10:00      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.633 ± 0.320 (0.429)</b> <b>C:93% T:NA</b>	pCi/L	11/27/23 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.823 ± 0.438 (0.757)</b> <b>C:86% T:69%</b>	pCi/L	11/09/23 16:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.46 ± 0.758 (1.19)</b>	pCi/L	11/27/23 13:11	7440-14-4	

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1427  
 Pace Project No.: 30634060

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0253U ± 0.180 (0.466)</b> <b>C:97% T:NA</b>	pCi/L	11/27/23 08:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.241U ± 0.348 (0.748)</b> <b>C:89% T:74%</b>	pCi/L	11/09/23 16:13	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.266U ± 0.528 (1.21)</b>	pCi/L	11/27/23 13:11	7440-14-4	

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: WMWGREAP\_1427  
 Pace Project No.: 30634060

**Sample: BD19322 EB-1**      **Lab ID: 30634060006**      Collected: 10/18/23 14:30      Received: 10/26/23 10:00      Matrix: Water  
 PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>-0.0484U ± 0.105 (0.368)</b> <b>C:96% T:NA</b>	pCi/L	11/27/23 08:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.519U ± 0.403 (0.796)</b> <b>C:88% T:76%</b>	pCi/L	11/09/23 16:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.519U ± 0.508 (1.16)</b>	pCi/L	11/27/23 13:11	7440-14-4	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1427  
 Pace Project No.: 30634060

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QC Batch:	626722	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30634060001, 30634060002, 30634060003, 30634060004, 30634060005, 30634060006

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METHOD BLANK: 3054986 Matrix: Water

Associated Lab Samples: 30634060001, 30634060002, 30634060003, 30634060004, 30634060005, 30634060006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.624 ± 0.404 (0.766) C:82% T:75%	pCi/L	11/09/23 12:41	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: WMWGREAP\_1427  
 Pace Project No.: 30634060

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QC Batch:	625947	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30634060001, 30634060002, 30634060003, 30634060004, 30634060005, 30634060006

---

METHOD BLANK: 3051015 Matrix: Water

Associated Lab Samples: 30634060001, 30634060002, 30634060003, 30634060004, 30634060005, 30634060006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0171 ± 0.0412 (0.143) C:98% T:NA	pCi/L	11/27/23 08:15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: WMWGREAP\_1427  
Pace Project No.: 30634060

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: WMWGREAP\_1427  
 Pace Project No.: 30634060

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30634060001	BD19324 MW-52HO	EPA 9315	625947		
30634060002	BD19324 MW-52HO MS	EPA 9315	625947		
30634060003	BD19324 MW-52HO MSD	EPA 9315	625947		
30634060004	BD19320 MW-52HO Dup	EPA 9315	625947		
30634060005	BD19321 FB-1	EPA 9315	625947		
30634060006	BD19322 EB-1	EPA 9315	625947		
30634060001	BD19324 MW-52HO	EPA 9320	626722		
30634060002	BD19324 MW-52HO MS	EPA 9320	626722		
30634060003	BD19324 MW-52HO MSD	EPA 9320	626722		
30634060004	BD19320 MW-52HO Dup	EPA 9320	626722		
30634060005	BD19321 FB-1	EPA 9320	626722		
30634060006	BD19322 EB-1	EPA 9320	626722		
30634060001	BD19324 MW-52HO	Total Radium Calculation	632102		
30634060004	BD19320 MW-52HO Dup	Total Radium Calculation	632102		
30634060005	BD19321 FB-1	Total Radium Calculation	632102		
30634060006	BD19322 EB-1	Total Radium Calculation	632102		

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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama Power Company	Report To:	Brooke Caton	Attention:	Brooke Caton
Address:	744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To:	Renee Jernigan & Blaine Denton	Company Name:	Alabama Power Co.
Email To:	fbwill@southernco.com	Purchase Order #:	APC87119-0001	Address:	744 Highway 87 GSC Bldg #8 CCR
Phone:	205-664-6101	Project Name:	Plant Greene County Ash Pond	Pace Quote:	
Requested Due Date:	28 days	Project Number:	WMMWGREP_1427	Pace Project Manager:	Skyler Richmond
				Pace Profile #:	16788
				Regulatory Agency:	AL
				State / Location:	AL

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives		Analyses Test Y/N	EPA 9315	EPA 9320	Total Radium Sum	Residual Chlorine (Y/N)
									DATE	TIME		Unpreserved	H2SO4					
1	MW-52HO	APOC-GC-AP-MW-52HO	APOC_GreeneCounty_AshPond		x		GW G	G	10/18/2023	13:45	3			X	X	X		
2	MW-52HO Dup	APOC-GC-AP-MW-52HO	APOC_GreeneCounty_AshPond	x			GW G	G	10/18/2023	13:45	1			X	X	X		
3	FB-1	APOC-GC-AP-FB-01	APOC_GreeneCounty_AshPond				GW G	G	10/18/2023	14:20	1			X	X	X		
4	EB-1	APOC-GC-AP-EB-01	APOC_GreeneCounty_AshPond				GW G	G	10/18/2023	14:30	1			X	X	X		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Caton/ APC GTL	10/23/2023	14:36	<i>Rup...</i>	10/23/23	1000	N Y Y Y

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER:  
 SIGNATURE of SAMPLER:

WO#: 30634060



30634060



DC#\_ Title: ENV-FRM-GBUR-0088 v06\_Sample Condition Upon Receipt-  
Pittsburgh

Effective Date: 09/20/2023

WO#: 30634060

PM: SCR

Due Date: 11/27/23

Client Name: Alabama Power

CLIENT: ALABAMA PWR

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking Number: 7017 6814 5959

Initial / Date  
Examined By: PS 10/26/23  
Labeled By: PS 10/26/23  
Temped By:

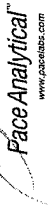
Custody Seal on Cooler/Box Present:  Yes  No    Seals Intact:  Yes  No  
Thermometer Used: \_\_\_\_\_ Type of Ice: Wet Blue None

Cooler Temperature: Observed Temp \_\_\_\_\_ °C    Correction Factor: \_\_\_\_\_ °C    Final Temp: \_\_\_\_\_ °C  
Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot#	D.P.D. Residual Chlorine Lot #
				10 PAN 1131	
Chain of Custody Present	/			1.	
Chain of Custody Filled Out: -Were client corrections present on COC	/			2.	
Chain of Custody Relinquished		/		3. NO sig.	
Sampler Name & Signature on COC:		/		4.	
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	/			5.	
Samples Arrived within Hold Time:	/			6.	
Short Hold Time Analysis (<72hr remaining):		/		7.	
Rush Turn Around Time Requested:		/		8.	
Sufficient Volume:	/			9.	
Correct Containers Used: -Pace Containers Used	/			10.	
Containers Intact:	/			11.	
Orthophosphate field filtered:			/	12.	
Hex Cr Aqueous samples field filtered:			/	13.	
Organic Samples checked for dechlorination			/	14.	
Filtered volume received for dissolved tests:			/	15.	
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	/			16.	
All containers meet method preservation requirements:	/			Initial when completed PS	Date/Time of Preservation
8260C/D: Headspace in VOA Vials (> 6mm)			/	17.	Lot# of added Preservative
624.1: Headspace in VOA Vials (0mm)			/	18.	
Trip Blank Present:			/	Trip blank custody seal present? YES or NO	
Rad Samples Screened <.05 mrem/hr.	/			Initial when completed PS	Date: 10/26/23 Survey Meter SN: 25014380
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

# Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
Analyst: SLC  
Date: 11/11/2023  
Worklist: 76062  
Matrix: DW

Method Blank Assessment	
MB Sample ID	3051015
MB Concentration:	-0.017
MB Counting Uncertainty:	0.041
MB MDC:	0.143
MB Numerical Performance Indicator:	-0.81
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD76062	LCSD76062
Count Date:	11/27/2023
Spike I.D.:	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.028
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.509
Target Conc. (pCi/L, g, F):	4.918
Uncertainty (Calculated):	0.231
Result (pCi/L, g, F):	4.834
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.451
Numerical Performance Indicator:	-0.33
Percent Recovery:	98.28%
Status vs Numerical Indicator:	N/A
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	See Below ##
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Duplicate Result (pCi/L, g, F):	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

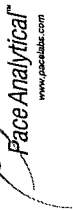
## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	
Sample Collection Date:	MS/MSD 1
Sample I.D.:	10/18/2023
Sample MS I.D.:	30633936005
Sample MSD I.D.:	30633936006
Spike I.D.:	30633936007
Spike I.D.:	23-014
Spike I.D.:	25.030
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	0.20
Spike Volume Used in MS (mL):	0.20
Spike Volume Used in MSD (mL):	0.20
MS Aliquot (L, g, F):	0.207
MS Target Conc. (pCi/L, g, F):	24.176
MSD Aliquot (L, g, F):	0.207
MSD Target Conc. (pCi/L, g, F):	23.258
MS Spike Uncertainty (calculated):	1.136
MSD Spike Uncertainty (calculated):	1.093
Sample Result Counting Uncertainty (pCi/L, g, F):	0.244
Sample Matrix Spike Result:	0.336
Sample Matrix Spike Result:	24.960
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.610
Sample Matrix Spike Duplicate Result:	23.820
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.544
MS Numerical Performance Indicator:	-0.052
MSD Numerical Performance Indicator:	0.326
MS Percent Recovery:	99.78%
MSD Percent Recovery:	101.37%
MS Status vs Numerical Indicator:	N/A
MSD Status vs Numerical Indicator:	N/A
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	Pass
MS/MSD Upper % Recovery Limits:	125%
MS/MSD Lower % Recovery Limits:	75%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	MS/MSD 2
Sample MS I.D.:	10/18/2023
Sample MSD I.D.:	30634060001
Sample Matrix Spike Result:	30634060002
Sample Matrix Spike Result:	30634060003
Sample Matrix Spike Result:	24.873
Sample Matrix Spike Result:	1.596
Sample Matrix Spike Duplicate Result:	24.057
Sample Matrix Spike Duplicate Result:	1.588
Sample Matrix Spike Duplicate Result:	0.710
Duplicate Numerical Performance Indicator:	3.30%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	N/A
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

# Quality Control Sample Performance Assessment



Analyst *Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-228  
Analyst: VAL  
Date: 11/6/2023  
Worklist: 76138  
Matrix: WT

Method Blank Assessment	
MB Sample ID	3054986
MB concentration:	0.624
M/B 2 Sigma CSU:	0.404
MB MDC:	0.766
MB Numerical Performance Indicator:	3.03
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD76138	LCSD76138
Count Date:	11/9/2023
Spike I.D.:	23-043
Decay Corrected Spike Concentration (pCi/mL):	39.096
Aliquot Volume (L, g, F):	0.10
Volume Used (mL):	0.818
Target Conc. (pCi/L, g, F):	4.778
Uncertainty (Calculated):	0.234
Result (pCi/L, g, F):	4.377
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	1.040
Numerical Performance Indicator:	-0.74
Percent Recovery:	91.62%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?:	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

\*if the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.

*VAL*  
*11/10/23*

*22*  
*11-10-23*

*Quil10/23*

*MS results < 100%, Pass*

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		10/18/2023	10/18/2023
Sample I.D.:		30633936005	30634060001
Sample MS I.D.:		30633936006	30634060002
Sample MSD I.D.:		30633936007	30634060003
Spike I.D.:		23-043	23-043
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		39.383	39.383
Spike Volume Used in MS (mL):		0.20	0.20
Spike Volume Used in MSD (mL):		0.20	0.20
MS Aliquot (L, g, F):		0.809	0.805
MSD Aliquot (L, g, F):		9.742	9.783
MS Target Conc. (pCi/L, g, F):		0.809	0.807
MSD Target Conc. (pCi/L, g, F):		9.735	9.760
MS Spike Uncertainty (calculated):		0.477	0.479
MSD Spike Uncertainty (calculated):		0.477	0.478
Sample Result:		0.623	0.139
Sample Result 2 Sigma CSU (pCi/L, g, F):		0.398	0.325
Sample Matrix Spike Result:		9.779	9.589
Sample Matrix Spike Duplicate Result:		1.984	1.944
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		8.720	12.306
Sample Matrix Spike Duplicate Result:		1.786	2.464
MS Numerical Performance Indicator:		-0.552	-0.321
MSD Numerical Performance Indicator:		-1.697	1.864
MS Percent Recovery:		93.98%	96.60%
MSD Percent Recovery:		83.18%	124.66%
MS Status vs Numerical Indicator:		Pass	Pass
MSD Status vs Numerical Indicator:		Pass	Pass
MS Status vs Recovery:		Pass	Pass
MSD Status vs Recovery:		Pass	Pass
MS/MSD Upper % Recovery Limits:		135%	135%
MS/MSD Lower % Recovery Limits:		60%	60%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30633936005
Sample MS I.D.:	30633936006
Sample MSD I.D.:	30633936007
Sample Matrix Spike Result:	9.779
Sample Matrix Spike Duplicate Result:	1.984
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	8.720
Sample Matrix Spike Duplicate Result:	1.786
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.777
Duplicate Numerical Performance Indicator:	12.20%
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

# Appendix D





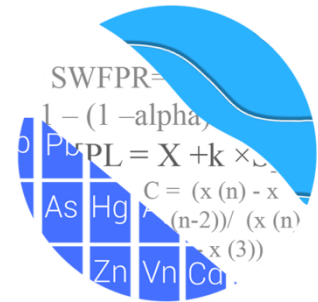
## Appendix D. Horizontal Groundwater Flow Velocity Calculations Plant Greene County Ash Pond

2023 Semi-Annual Monitoring Events								
Date of Measurement	MW-25	MW-18	Distance	Hydraulic Gradient	Hydraulic Conductivity	Effective Porosity	Calculated Groundwater Flow Velocity	Calculated Groundwater Flow Velocity
	h <sub>1</sub> (ft)	h <sub>2</sub> (ft)	Δl (ft)	Δh/Δl (ft/ft)	K	n	(ft/d)	(ft/yr)
5/15/2023	89.88	75.62	1815.0	0.008	51.93	0.25	1.63	595.68
Date of Measurement	MW-6	MW-7	Distance	Hydraulic Gradient	Hydraulic Conductivity	Effective Porosity	Calculated Groundwater Flow Velocity	Calculated Groundwater Flow Velocity
	h <sub>1</sub> (ft)	h <sub>2</sub> (ft)	Δl (ft)	Δh/Δl (ft/ft)	K	n	(ft/d)	(ft/yr)
5/15/2023	89.04	85.98	1230.0	0.002	51.93	0.25	0.52	188.62
Date of Measurement	MW-25	MW-18	Distance	Hydraulic Gradient	Hydraulic Conductivity	Effective Porosity	Calculated Groundwater Flow Velocity	Calculated Groundwater Flow Velocity
	h <sub>1</sub> (ft)	h <sub>2</sub> (ft)	Δl (ft)	Δh/Δl (ft/ft)	K	n	(ft/d)	(ft/yr)
10/17/2023	88.53	74.31	1815.0	0.008	51.93	0.25	1.63	594.01
Date of Measurement	MW-6	MW-7	Distance	Hydraulic Gradient	Hydraulic Conductivity	Effective Porosity	Calculated Groundwater Flow Velocity	Calculated Groundwater Flow Velocity
	h <sub>1</sub> (ft)	h <sub>2</sub> (ft)	Δl (ft)	Δh/Δl (ft/ft)	K	n	(ft/d)	(ft/yr)
10/17/2023	84.34	83.16	1230.0	0.001	51.93	0.25	0.20	72.74

Notes:  
ft = feet  
ft/d = feet/day  
ft/ft = feet per foot  
ft/yr = feet per year

# Appendix E

# GROUNDWATER STATS CONSULTING



July 19, 2023

Southern Company Services  
Attn: Mr. Greg Dyer  
3535 Colonnade Parkway  
Birmingham, AL 35243

Re: Plant Greene County Ash Pond  
1<sup>st</sup> Semi-Annual Event – May 2023

Dear Mr. Dyer,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the May 2023 1<sup>st</sup> semi-annual sample event for Alabama Power Company's Plant Greene County Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began at this site for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GC-AP-MW-23, GC-AP-MW-24, GC-AP-MW-26, GC-AP-MW-27, GC-AP-MW-28, GC-AP-MW-29, and GC-AP-MW-30
- **Downgradient wells:** GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-31, GC-AP-MW-32, and GC-AP-MW-33

- **Delineation wells:** GC-AP-PZ-4, GC-AP-MW-34HA, GC-AP-MW-35H, GC-AP-MW-36H, GC-AP-MW-37H, GC-AP-MW-38H, GC-AP-MW-39H, GC-AP-MW-40H, GC-AP-MW-41H, GC-AP-MW-42H, GC-AP-MW-43H, GC-AP-MW-44H, GC-AP-MW-45H, GC-AP-MW-46HO, GC-AP-MW-47HO, GC-AP-MW-48H, GC-AP-MW-49H, GC-AP-MW-50HO, GC-AP-MW-52HO, GC-AP-MW-53H, GC-AP-MW-54H, GC-AP-MW-55HO, GC-AP-MW-57H, GC-AP-MW-59HO, GC-AP-MW-60HO, GC-AP-MW-61HO, GC-AP-MW-62HO, GC-AP-MW-63HO, and GC-AP-MW-64HO

Note that delineation wells do not require statistics; therefore, data are plotted only on time series and box plots. Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was prepared according to the Statistical Analysis Plan approved by Dr. Kirk Cameron, Ph.D. Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to Groundwater Stats Consulting. The analysis was reviewed by Andrew Collins, Project Manager for Groundwater Stats Consulting.

The CCR program consists of the following constituents:

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) - antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A list of Appendix IV downgradient well/constituent pairs containing 100% non-detects follows this letter. Due to historic varying detection limits, the following reporting limits were substituted across all wells:

- Antimony: 0.001015 mg/L
- Arsenic: 0.000203 mg/L
- Cadmium: 0.000203 mg/L
- Chromium: 0.001015 mg/L
- Cobalt: 0.000203 mg/L
- Fluoride: 0.125 mg/L
- Lead: 0.000203 mg/L
- Molybdenum: 0.01015 mg/L
- Selenium: 0.001015 mg/L
- Thallium: 0.000203 mg/L

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). A substitution of the most recent reporting limit is used for non-detect data. Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells.

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on analysis of the spatial variability of groundwater quality data among wells upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. The power curve provided in this report demonstrates that the selected statistical methods for Appendix III parameters complies with the USEPA Unified Guidance. The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves are based on the following statistical methods and site/data characteristics:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan
- # Background Samples: 140
- # Constituents: 7
- # Downgradient wells: 22

### **Summary of Statistical Methods – Appendix III Parameters**

Based on the earlier evaluation described above, interwell prediction limits were utilized in the analysis of this site.

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the annual false positive rate associated with parametric limits is fixed at 10% as recommended by the EPA Unified Guidance (2009), the false-positive rate associated with nonparametric limits is not fixed and depends upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits as appropriate.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half of the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data following each sampling event after careful screening for any new outliers. While not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

### **Background Update Summary**

Interwell prediction limits, which compare the most recent sample from each downgradient well to statistical limits constructed from pooled upgradient well data, are updated during each sample event. Data from upgradient wells are periodically re-screened for newly developing trends, which may require adjustment of the background period to eliminate trends, as well as for outliers over the entire record. Interwell prediction limits are used to evaluate boron, calcium, chloride, fluoride, pH, sulfate, and TDS.

Proposed background data at upgradient wells were originally screened for outliers and trends in May 2019 for the constituents listed above. Both Tukey's Test and visual screening were used to identify potential outliers. When identified, values were flagged with "o" and excluded to reduce variation, better represent background conditions, and provide limits that are conservative from a regulatory perspective. Potential outliers that were identified by Tukey's test but were not greatly different from the rest of the data

were not flagged. Also, outliers that are not identified as important by Tukey's test may be identified visually and flagged in the database for construction of more conservative (lower) statistical limits.

All flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. A summary of previously flagged values follows this letter.

The Sen's Slope/Mann Kendall trend test was used to evaluate the entire record of data from upgradient wells during the original screening for parameters utilizing interwell prediction limits. When statistically significant increasing trends are identified in upgradient wells, deselection of the earlier portion of data may be required prior to construction of interwell statistical limits if the trending data would result in statistical limits that are not conservative from a regulatory perspective. Several statistically significant trends were noted in upgradient wells, and the results were submitted with the September 2019 background update. These trends required no adjustments, however, because the period of record was short and/or the magnitudes of the trends were low relative to the average concentrations in background.

One exception was upgradient well GC-AP-MW-24 which had statistically significantly increasing trends for calcium, sulfate, and TDS. However, the more recent reported observations for calcium and TDS were similar to those observed in upgradient well GC-AP-MW-23; therefore, no adjustments were required for these constituents. Additionally, no adjustment was required for sulfate since the statistical limit resulted in a nonparametric prediction limit which is constructed based on the highest report concentration among the upgradient wells. All data at upgradient wells are continually monitored, as mentioned earlier, and will be adjusted in future analyses as necessary. A summary of any adjusted records will accompany the report.

## **Evaluation of Appendix III Parameters – May 2023**

### Outlier Screening

Prior to performing prediction limits, background (upgradient) well data for Appendix III constituents were re-assessed for potential outliers and trends during this analysis. No new values were flagged and no adjustments were required to account for trending data. Values in background which have been previously flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

## Interwell Prediction Limits

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for all Appendix III parameters (Figure D). Interwell prediction limits pool upgradient well data through May 2023 to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If a resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no further action is necessary. When no resamples are collected, any initial exceedances are considered SSIs. A summary of the prediction limits results may be found in the Prediction Limit Summary tables following this letter (pages 12-16). Several exceedances for interwell prediction limits were identified.

## Trend Tests – Prediction Limit Exceedances

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells. When similar patterns exist upgradient of the site, it is an indication of natural variability in groundwater which may be unrelated to practices at the site. A summary of the trend test results follows this letter (pages 17-21). Statistically significant trends were identified for the following well/constituent pairs:

### Increasing:

- Boron: GC-AP-MW-5, GC-AP-MW-9, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, and GC-AP-MW-25
- Calcium: GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17 and GC-AP-MW-24 (upgradient)
- Chloride: GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-9, and GC-AP-MW-31
- Fluoride: GC-AP-MW-8, GC-AP-MW-14, GC-AP-MW-16, and GC-AP-MW-17



- Sulfate: GC-AP-MW-24, GC-AP-MW-27, GC-AP-MW-28 (all upgradient), GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-9, GC-AP-MW-10, and GC-AP-MW-11
- TDS: GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-24 (upgradient), and GC-AP-MW-25

Decreasing:

- Boron: GC-AP-MW-6 and GC-AP-MW-18
- Calcium: GC-AP-MW-23, GC-AP-MW-28, GC-AP-MW-29, GC-AP-MW-30 (all upgradient), and GC-AP-MW-1
- Chloride: GC-AP-MW-5, GC-AP-MW-14, GC-AP-MW-16, and GC-AP-MW-23 (upgradient)
- pH: GC-AP-MW-23, GC-AP-MW-24, GC-AP-MW-27, GC-AP-MW-28, GC-AP-MW-29, GC-AP-MW-30 (all upgradient)
- Sulfate: GC-AP-MW-15 and GC-AP-MW-23 (upgradient)
- TDS: GC-AP-MW-23, GC-AP-MW-28 and GC-AP-MW-29 (all upgradient)

### **Evaluation of Appendix IV Parameters – May 2023**

Data from all upgradient wells for Appendix IV parameters were reassessed for outliers during the previous analysis. No changes to previously flagged outliers were made. A summary of previously flagged outliers follows this report (Figure C).

In accordance with Alabama Department of Environmental Management, the Groundwater Protections Standards (GWPS) were updated during the 2021 2<sup>nd</sup> semi-annual statistical analysis. The GWPS will be updated again during the 2023 2<sup>nd</sup> semi-annual statistical analysis. The methodology used to create these GWPS is described below.

#### Interwell Upper Tolerance Limits

First, background limits were determined using upper tolerance limits (UTLs) constructed from pooled upgradient well data through August 2021 (Figure F). The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. As requested by ADEM to eliminate variation among upgradient well data, nonparametric tolerance limits, which use the

highest value in background as the statistical limit, were constructed. A summary of the upper tolerance limits follows this letter (page 22).

### Groundwater Protection Standards

These background limits are then compared to the Maximum Contaminant Levels (MCLs) for each parameter, and the higher of the two is used as the GWPS (Figure G, page 23) in the confidence interval comparisons described below.

### Confidence Intervals

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through May 2023 for each of the Appendix IV parameters (Figure H). These intervals were either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available

Note that a resample was collected in May 2022 for selenium in downgradient well GC-AP-MW-13 due to the spurious result of 0.111 mg/L reported during the April 2022 sample event. The resample resulted in a reported measurement of 0.0452 mg/L. Therefore, the April 2022 concentration was flagged as an outlier and was not included in construction of the confidence interval.

As mentioned above, well/constituent pairs containing 100% non-detects in the most recent 8 samples did not require statistics; therefore, they were deselected prior to construction of confidence intervals. A list of deselected well/constituent pairs follows this report. Each confidence interval was compared with the corresponding GWPS. Only when the entire confidence interval is above the GWPS is the well/constituent pair considered to exceed its respective standard. Both a tabular summary and graphical presentation of the confidence interval results follow this letter (pages 24-28). Exceedances were noted for the following well/constituent pairs:

- Arsenic: GC-AP-MW-1, GC-AP-MW-5, GC-AP-MW-10, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, and GC-AP-MW-18
- Cobalt: GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-14, and GC-AP-MW-15
- Lithium: GC-AP-MW-5, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, and GC-AP-MW-21

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Greene County Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

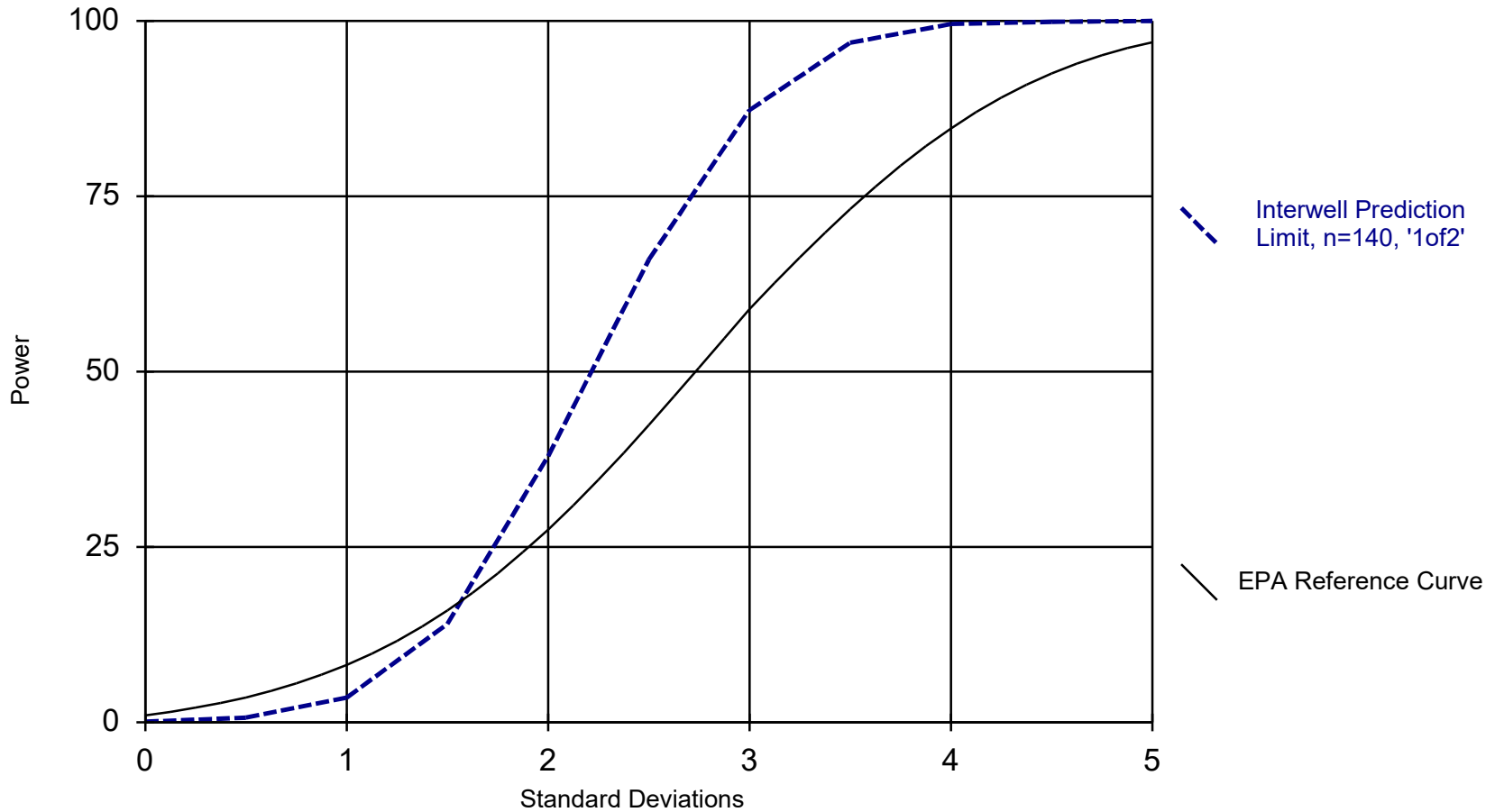


Kristina Rayner  
Senior Statistician



Andrew Collins  
Project Manager

### Power Curve



Kappa = 2.122, based on 22 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

# 100% Non-Detects: Appendix IV Downgradient

Analysis Run 7/17/2023 3:16 PM View: Cls

Plant Greene County Client: Southern Company Data: Greene County AP

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## Antimony (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-2, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-8, GC-AP-MW-9

## Beryllium (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-2, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

## Cadmium (mg/L)

GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-7, GC-AP-MW-9

## Fluoride (mg/L)

GC-AP-MW-33

## Lead (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8

## Lithium (mg/L)

GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-25, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-7

## Mercury (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-2, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

## Molybdenum (mg/L)

GC-AP-MW-15, GC-AP-MW-3, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-9

## Selenium (mg/L)

GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-31, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

## Thallium (mg/L)

GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-25, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

# Interwell Prediction Limits - Significant Results

Plant Greene County   Client: Southern Company   Data: Greene County AP   Printed 7/14/2023, 2:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.1015	n/a	5/16/2023	0.187	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	5/24/2023	2.3	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	5/17/2023	0.691	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	5/30/2023	0.306	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	5/31/2023	0.263	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	5/24/2023	1.82	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	5/23/2023	0.935	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	5/31/2023	2.09	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	5/17/2023	2.48	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	5/22/2023	1.49	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	5/17/2023	0.143	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	5/30/2023	0.402	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	5/30/2023	0.115	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	5/17/2023	0.515	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	5/30/2023	1.09	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	5/30/2023	0.794	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	5/30/2023	1.05	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	47.3	n/a	5/16/2023	105	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	47.3	n/a	5/24/2023	108	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-11	47.3	n/a	5/17/2023	57.8	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	47.3	n/a	5/30/2023	54.5	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	47.3	n/a	5/31/2023	65.1	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	47.3	n/a	5/24/2023	119	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	47.3	n/a	5/23/2023	92.5	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	47.3	n/a	5/31/2023	108	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	47.3	n/a	5/17/2023	147	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	47.3	n/a	5/22/2023	82.1	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	47.3	n/a	5/17/2023	204	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	47.3	n/a	5/17/2023	56.8	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	47.3	n/a	5/17/2023	111	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	47.3	n/a	5/30/2023	138	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	47.3	n/a	5/30/2023	140	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	47.3	n/a	5/30/2023	87	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	47.3	n/a	5/30/2023	91.1	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.8	n/a	5/16/2023	40.8	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-10	5.8	n/a	5/24/2023	13.5	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	5.8	n/a	5/17/2023	18.8	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-12	5.8	n/a	5/30/2023	11.7	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-14	5.8	n/a	5/24/2023	10	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-15	5.8	n/a	5/23/2023	8.99	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-16	5.8	n/a	5/31/2023	8.96	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-17	5.8	n/a	5/17/2023	10	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-18	5.8	n/a	5/22/2023	24.4	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-2	5.8	n/a	5/17/2023	9.92	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-21	5.8	n/a	5/30/2023	9.44	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-25	5.8	n/a	5/30/2023	19.9	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-3	5.8	n/a	5/17/2023	21.6	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-31	5.8	n/a	5/23/2023	7.44	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-5	5.8	n/a	5/17/2023	8.4	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-6	5.8	n/a	5/30/2023	39.4	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-7	5.8	n/a	5/30/2023	208	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-8	5.8	n/a	5/30/2023	76.6	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-9	5.8	n/a	5/30/2023	105	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	5/24/2023	0.303	Yes	141	n/a	n/a	69.5	n/a	n/a	0.00009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	5/30/2023	0.18	Yes	141	n/a	n/a	69.5	n/a	n/a	0.00009774	NP Inter (NDs) 1 of 2

# Interwell Prediction Limits - Significant Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 7/14/2023, 2:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	5/24/2023	0.258	Yes	141	n/a	n/a	69.5	n/a	n/a	0.00009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	5/31/2023	0.284	Yes	141	n/a	n/a	69.5	n/a	n/a	0.00009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	5/17/2023	0.535	Yes	141	n/a	n/a	69.5	n/a	n/a	0.00009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	5/22/2023	0.186	Yes	141	n/a	n/a	69.5	n/a	n/a	0.00009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	5/17/2023	0.24	Yes	141	n/a	n/a	69.5	n/a	n/a	0.00009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	5/30/2023	0.193	Yes	141	n/a	n/a	69.5	n/a	n/a	0.00009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-8	0.159	n/a	5/30/2023	0.179	Yes	141	n/a	n/a	69.5	n/a	n/a	0.00009774	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-12	6.8	3.78	5/30/2023	6.87	Yes	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	5/16/2023	578	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	5/24/2023	119	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	5/17/2023	150	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	5/30/2023	106	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	5/31/2023	162	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	5/24/2023	178	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	5/23/2023	131	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-17	103	n/a	5/17/2023	122	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	5/17/2023	689	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	5/17/2023	163	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	5/30/2023	210	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	5/30/2023	236	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	5/30/2023	135	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-1	182	n/a	5/16/2023	1050	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	182	n/a	5/24/2023	490	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	182	n/a	5/17/2023	354	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	182	n/a	5/30/2023	279	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-13	182	n/a	5/31/2023	333	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	182	n/a	5/24/2023	650	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	182	n/a	5/23/2023	410	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	182	n/a	5/31/2023	502	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	182	n/a	5/17/2023	648	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	182	n/a	5/22/2023	362	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	182	n/a	5/17/2023	1030	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	182	n/a	5/30/2023	237	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	182	n/a	5/30/2023	225	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	182	n/a	5/17/2023	349	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	182	n/a	5/17/2023	496	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-6	182	n/a	5/30/2023	818	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	182	n/a	5/30/2023	1000	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	182	n/a	5/30/2023	676	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	182	n/a	5/30/2023	646	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2

# Interwell Prediction Limits - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 7/14/2023, 2:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.1015	n/a	5/16/2023	0.187	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	5/24/2023	2.3	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	5/17/2023	0.691	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	5/30/2023	0.306	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	5/31/2023	0.263	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	5/24/2023	1.82	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	5/23/2023	0.935	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	5/31/2023	2.09	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	5/17/2023	2.48	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	5/22/2023	1.49	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	5/17/2023	0.143	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	5/30/2023	0.402	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	5/30/2023	0.115	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-3	0.1015	n/a	5/17/2023	0.0456J	No	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-31	0.1015	n/a	5/23/2023	0.1015ND	No	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-32	0.1015	n/a	5/22/2023	0.1015ND	No	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-33	0.1015	n/a	5/22/2023	0.1015ND	No	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	5/17/2023	0.515	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	5/30/2023	1.09	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1015	n/a	5/30/2023	0.0498J	No	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	5/30/2023	0.794	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	5/30/2023	1.05	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	47.3	n/a	5/16/2023	105	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	47.3	n/a	5/24/2023	108	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-11	47.3	n/a	5/17/2023	57.8	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	47.3	n/a	5/30/2023	54.5	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	47.3	n/a	5/31/2023	65.1	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	47.3	n/a	5/24/2023	119	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	47.3	n/a	5/23/2023	92.5	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	47.3	n/a	5/31/2023	108	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	47.3	n/a	5/17/2023	147	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	47.3	n/a	5/22/2023	82.1	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	47.3	n/a	5/17/2023	204	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-21	47.3	n/a	5/30/2023	36.1	No	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-25	47.3	n/a	5/30/2023	13.9	No	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	47.3	n/a	5/17/2023	56.8	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-31	47.3	n/a	5/23/2023	6.75	No	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-32	47.3	n/a	5/22/2023	10.2	No	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-33	47.3	n/a	5/22/2023	2.52	No	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	47.3	n/a	5/17/2023	111	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	47.3	n/a	5/30/2023	138	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	47.3	n/a	5/30/2023	140	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	47.3	n/a	5/30/2023	87	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	47.3	n/a	5/30/2023	91.1	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.8	n/a	5/16/2023	40.8	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-10	5.8	n/a	5/24/2023	13.5	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	5.8	n/a	5/17/2023	18.8	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-12	5.8	n/a	5/30/2023	11.7	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-13	5.8	n/a	5/31/2023	4.19	No	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-14	5.8	n/a	5/24/2023	10	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-15	5.8	n/a	5/23/2023	8.99	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-16	5.8	n/a	5/31/2023	8.96	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-17	5.8	n/a	5/17/2023	10	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-18	5.8	n/a	5/22/2023	24.4	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-2	5.8	n/a	5/17/2023	9.92	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2



# Interwell Prediction Limits - All Results

Plant Greene County   Client: Southern Company   Data: Greene County AP   Printed 7/14/2023, 2:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-21	5.8	n/a	5/30/2023	9.44	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-25	5.8	n/a	5/30/2023	19.9	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-3	5.8	n/a	5/17/2023	21.6	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-31	5.8	n/a	5/23/2023	7.44	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-32	5.8	n/a	5/22/2023	3.95	No	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-33	5.8	n/a	5/22/2023	4.53	No	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-5	5.8	n/a	5/17/2023	8.4	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-6	5.8	n/a	5/30/2023	39.4	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-7	5.8	n/a	5/30/2023	208	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-8	5.8	n/a	5/30/2023	76.6	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-9	5.8	n/a	5/30/2023	105	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	GC-AP-MW-1	0.159	n/a	5/16/2023	0.144	No	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	5/24/2023	0.303	Yes	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-11	0.159	n/a	5/17/2023	0.157	No	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	5/30/2023	0.18	Yes	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-13	0.159	n/a	5/31/2023	0.102J	No	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	5/24/2023	0.258	Yes	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-15	0.159	n/a	5/23/2023	0.144	No	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	5/31/2023	0.284	Yes	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	5/17/2023	0.535	Yes	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	5/22/2023	0.186	Yes	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-2	0.159	n/a	5/17/2023	0.0918J	No	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-21	0.159	n/a	5/30/2023	0.135	No	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-25	0.159	n/a	5/30/2023	0.0807J	No	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-3	0.159	n/a	5/17/2023	0.147	No	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-31	0.159	n/a	5/23/2023	0.125ND	No	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-32	0.159	n/a	5/22/2023	0.125ND	No	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-33	0.159	n/a	5/22/2023	0.125ND	No	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	5/17/2023	0.24	Yes	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	5/30/2023	0.193	Yes	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-7	0.159	n/a	5/30/2023	0.111J	No	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-8	0.159	n/a	5/30/2023	0.179	Yes	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-9	0.159	n/a	5/30/2023	0.127	No	141	n/a	n/a	69.5	n/a	n/a	0.0009774	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-1	6.8	3.78	5/16/2023	5.45	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-10	6.8	3.78	5/24/2023	6.59	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-11	6.8	3.78	5/17/2023	6.21	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-12	6.8	3.78	5/30/2023	6.87	Yes	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-13	6.8	3.78	5/31/2023	6.37	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-14	6.8	3.78	5/24/2023	6.4	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-15	6.8	3.78	5/23/2023	6.25	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-16	6.8	3.78	5/31/2023	6.52	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-17	6.8	3.78	5/17/2023	6.71	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-18	6.8	3.78	5/22/2023	6.1	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-2	6.8	3.78	5/17/2023	5.79	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-21	6.8	3.78	5/30/2023	6.03	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-25	6.8	3.78	5/30/2023	5.45	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-3	6.8	3.78	5/17/2023	5.94	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-31	6.8	3.78	5/23/2023	5.67	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-32	6.8	3.78	5/22/2023	5.98	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-33	6.8	3.78	5/22/2023	4.58	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-5	6.8	3.78	5/17/2023	6.64	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-6	6.8	3.78	5/30/2023	6.5	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-7	6.8	3.78	5/30/2023	6.42	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-8	6.8	3.78	5/30/2023	6.62	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-9	6.8	3.78	5/30/2023	6.38	No	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2

# Interwell Prediction Limits - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 7/14/2023, 2:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	5/16/2023	578	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	5/24/2023	119	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	5/17/2023	150	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	5/30/2023	106	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	5/31/2023	162	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	5/24/2023	178	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	5/23/2023	131	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-16	103	n/a	5/31/2023	42.8	No	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-17	103	n/a	5/17/2023	122	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-18	103	n/a	5/22/2023	19.1	No	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	5/17/2023	689	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-21	103	n/a	5/30/2023	89.4	No	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-25	103	n/a	5/30/2023	88.1	No	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-3	103	n/a	5/17/2023	19.6	No	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-31	103	n/a	5/23/2023	3	No	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-32	103	n/a	5/22/2023	2.5	No	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-33	103	n/a	5/22/2023	15.5	No	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	5/17/2023	163	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	5/30/2023	210	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	5/30/2023	236	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-8	103	n/a	5/30/2023	69.5	No	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	5/30/2023	135	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-1	182	n/a	5/16/2023	1050	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	182	n/a	5/24/2023	490	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	182	n/a	5/17/2023	354	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	182	n/a	5/30/2023	279	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-13	182	n/a	5/31/2023	333	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	182	n/a	5/24/2023	650	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	182	n/a	5/23/2023	410	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	182	n/a	5/31/2023	502	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	182	n/a	5/17/2023	648	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	182	n/a	5/22/2023	362	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	182	n/a	5/17/2023	1030	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	182	n/a	5/30/2023	237	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	182	n/a	5/30/2023	225	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	182	n/a	5/17/2023	349	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-31	182	n/a	5/23/2023	47.3	No	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-32	182	n/a	5/22/2023	51.3	No	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-33	182	n/a	5/22/2023	66	No	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	182	n/a	5/17/2023	496	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-6	182	n/a	5/30/2023	818	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	182	n/a	5/30/2023	1000	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	182	n/a	5/30/2023	676	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	182	n/a	5/30/2023	646	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2

# Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 7/14/2023, 2:31 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-14	0.1976	137	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.07374	161	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-16	0.1242	121	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.09149	109	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.04204	-95	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.004949	127	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.02291	99	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.1082	-121	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.1473	126	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-1	-14.37	-102	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-10	4.072	114	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-11	4.802	168	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-12	3.284	100	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-13	7.423	124	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	14.42	121	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-15	5.714	142	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	9.333	186	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	12.1	154	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	15.95	139	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.222	-144	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	5.858	180	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.1592	-117	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.1436	-125	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-30 (bg)	-0.1095	-110	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	7.704	176	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	12.71	116	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-14	-0.8818	-114	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-16	-0.5951	-89	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.0757	-124	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-31	0.1175	92	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-1.065	-142	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-6	1.842	89	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-7	8.701	110	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	7.942	172	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.02058	122	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.01095	107	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-17	0.02632	98	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-8	0.006765	108	87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (bg)	-0.0772	-181	-105	Yes	24	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-24 (bg)	-0.06219	-146	-105	Yes	24	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (bg)	-0.08501	-147	-105	Yes	24	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (bg)	-0.1019	-113	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (bg)	-0.3835	-190	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (bg)	-0.1028	-168	-111	Yes	25	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-10	14.37	174	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-11	15.31	130	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-6.528	-112	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-2	51.18	120	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.219	-164	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	13.38	132	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.4528	92	87	Yes	21	23.81	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.5321	116	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	26.21	165	87	Yes	21	4.762	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-6	12.86	93	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-9	19.57	109	87	Yes	21	0	n/a	n/a	0.01	NP

# Trend Tests - Prediction Limit Exceedances - Significant Results Page 2

Plant Greene County Client: Southern Company Data: Greene County AP Printed 7/14/2023, 2:31 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
TDS (mg/L)	GC-AP-MW-10	20.19	153	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	23.01	164	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-13	23.51	91	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-14	64.33	95	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	25.06	182	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	29.37	123	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	64.31	124	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-6.224	-129	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	20.42	127	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-25	16.25	154	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-2.081	-100	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-1.511	-118	-87	Yes	21	61.9	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	29.95	158	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-6	22.74	95	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	77.45	181	87	Yes	21	0	n/a	n/a	0.01	NP

# Trend Tests - Prediction Limit Exceedances - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 7/14/2023, 2:31 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.01101	45	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-10	0.1178	75	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-11	-0.01142	-14	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-12	0.01095	24	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-13	0.01876	32	81	No	20	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.1976</b>	<b>137</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>0.07374</b>	<b>161</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>0.1242</b>	<b>121</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>0.09149</b>	<b>109</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-18</b>	<b>-0.04204</b>	<b>-95</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	GC-AP-MW-2	0.001878	49	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-21	0.01619	32	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-23 (bg)	0	40	81	No	20	85	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-24 (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GC-AP-MW-25</b>	<b>0.004949</b>	<b>127</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	GC-AP-MW-26 (bg)	0	9	81	No	20	95	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-27 (bg)	0	25	81	No	20	90	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-28 (bg)	0	9	81	No	20	95	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-29 (bg)	0	13	81	No	20	95	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-30 (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>0.02291</b>	<b>99</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-6</b>	<b>-0.1082</b>	<b>-121</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	GC-AP-MW-8	-0.02044	-9	-81	No	20	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>0.1473</b>	<b>126</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-1</b>	<b>-14.37</b>	<b>-102</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>4.072</b>	<b>114</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-11</b>	<b>4.802</b>	<b>168</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-12</b>	<b>3.284</b>	<b>100</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-13</b>	<b>7.423</b>	<b>124</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>14.42</b>	<b>121</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>5.714</b>	<b>142</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>9.333</b>	<b>186</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>12.1</b>	<b>154</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GC-AP-MW-18	0.0227	1	87	No	21	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-2</b>	<b>15.95</b>	<b>139</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-2.222</b>	<b>-144</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-24 (bg)</b>	<b>5.858</b>	<b>180</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GC-AP-MW-26 (bg)	-0.09736	-12	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (bg)	0.06404	54	87	No	21	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-28 (bg)</b>	<b>-0.1592</b>	<b>-117</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-29 (bg)</b>	<b>-0.1436</b>	<b>-125</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GC-AP-MW-3	-5.003	-74	-87	No	21	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-30 (bg)</b>	<b>-0.1095</b>	<b>-110</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>7.704</b>	<b>176</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GC-AP-MW-6	3.706	84	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-7	-0.7744	-7	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-8	2.62	82	87	No	21	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>12.71</b>	<b>116</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-1	-0.177	-9	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-10	-0.1768	-23	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-11	-0.3355	-27	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-12	-0.2065	-25	-87	No	21	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>-0.8818</b>	<b>-114</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-15	-0.3923	-55	-87	No	21	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>-0.5951</b>	<b>-89</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

# Trend Tests - Prediction Limit Exceedances - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 7/14/2023, 2:31 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-17	-1.044	-85	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-18	0.4132	83	87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-2	-0.4718	-72	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-21	0.03201	10	87	No	21	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-0.0757</b>	<b>-124</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-24 (bg)	-0.03819	-16	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-25	-0.3488	-34	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-26 (bg)	-0.0009283	-1	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-27 (bg)	0.07381	86	87	No	21	4.762	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-28 (bg)	-0.05837	-71	-87	No	21	9.524	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-29 (bg)	-0.1933	-83	-87	No	21	9.524	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-3	-0.4196	-76	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-30 (bg)	0.2963	77	87	No	21	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-31</b>	<b>0.1175</b>	<b>92</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>-1.065</b>	<b>-142</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-6</b>	<b>1.842</b>	<b>89</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-7</b>	<b>8.701</b>	<b>110</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-8	3.68	47	87	No	21	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>7.942</b>	<b>172</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride (mg/L)	GC-AP-MW-10	0.006581	54	87	No	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-12	0.002654	32	87	No	21	0	n/a	n/a	0.01	NP
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.02058</b>	<b>122</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>0.01095</b>	<b>107</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>0.02632</b>	<b>98</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride (mg/L)	GC-AP-MW-18	0.003711	72	87	No	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-23 (bg)	0	-1	-87	No	21	9.524	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-24 (bg)	0	74	87	No	21	66.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-26 (bg)	0	-7	-63	No	17	47.06	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-27 (bg)	0	1	81	No	20	90	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-28 (bg)	0	0	81	No	20	85	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-29 (bg)	0	37	87	No	21	90.48	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-30 (bg)	0	20	87	No	21	95.24	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-5	0.001186	19	87	No	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-6	0.000574	13	87	No	21	0	n/a	n/a	0.01	NP
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-8</b>	<b>0.006765</b>	<b>108</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH (SU)	GC-AP-MW-12	0.004117	23	98	No	23	0	n/a	n/a	0.01	NP
<b>pH (SU)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-0.0772</b>	<b>-181</b>	<b>-105</b>	<b>Yes</b>	<b>24</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH (SU)</b>	<b>GC-AP-MW-24 (bg)</b>	<b>-0.06219</b>	<b>-146</b>	<b>-105</b>	<b>Yes</b>	<b>24</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH (SU)	GC-AP-MW-26 (bg)	-0.09927	-105	-105	No	24	0	n/a	n/a	0.01	NP
<b>pH (SU)</b>	<b>GC-AP-MW-27 (bg)</b>	<b>-0.08501</b>	<b>-147</b>	<b>-105</b>	<b>Yes</b>	<b>24</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH (SU)</b>	<b>GC-AP-MW-28 (bg)</b>	<b>-0.1019</b>	<b>-113</b>	<b>-111</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH (SU)</b>	<b>GC-AP-MW-29 (bg)</b>	<b>-0.3835</b>	<b>-190</b>	<b>-111</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH (SU)</b>	<b>GC-AP-MW-30 (bg)</b>	<b>-0.1028</b>	<b>-168</b>	<b>-111</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GC-AP-MW-1	5.389	14	87	No	21	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>14.37</b>	<b>174</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-11</b>	<b>15.31</b>	<b>130</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GC-AP-MW-12	1.733	18	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-13	13.6	77	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	18.68	86	87	No	21	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>-6.528</b>	<b>-112</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GC-AP-MW-17	-2.687	-21	-87	No	21	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-2</b>	<b>51.18</b>	<b>120</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-1.219</b>	<b>-164</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-24 (bg)</b>	<b>13.38</b>	<b>132</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GC-AP-MW-26 (bg)	-0.9063	-46	-87	No	21	0	n/a	n/a	0.01	NP

# Trend Tests - Prediction Limit Exceedances - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 7/14/2023, 2:31 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-27 (bg)</b>	<b>0.4528</b>	<b>92</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>23.81</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-28 (bg)</b>	<b>0.5321</b>	<b>116</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GC-AP-MW-29 (bg)	0	19	87	No	21	47.62	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-30 (bg)	0	35	87	No	21	71.43	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>26.21</b>	<b>165</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>4.762</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-6</b>	<b>12.86</b>	<b>93</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GC-AP-MW-7	-6.639	-23	-87	No	21	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>19.57</b>	<b>109</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-1	-14.15	-19	-87	No	21	0	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>20.19</b>	<b>153</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-11</b>	<b>23.01</b>	<b>164</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-12	8.785	64	87	No	21	0	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-13</b>	<b>23.51</b>	<b>91</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>64.33</b>	<b>95</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-15	9.251	73	87	No	21	0	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>25.06</b>	<b>182</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>29.37</b>	<b>123</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-18	-10.13	-67	-87	No	21	0	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-2</b>	<b>64.31</b>	<b>124</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-21	3.341	18	87	No	21	0	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-6.224</b>	<b>-129</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-24 (bg)</b>	<b>20.42</b>	<b>127</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-25</b>	<b>16.25</b>	<b>154</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-26 (bg)	-2.231	-38	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-27 (bg)	0.5746	59	87	No	21	23.81	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-28 (bg)</b>	<b>-2.081</b>	<b>-100</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-29 (bg)</b>	<b>-1.511</b>	<b>-118</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>61.9</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-3	-5.277	-85	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-30 (bg)	0.4363	48	87	No	21	23.81	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>29.95</b>	<b>158</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-6</b>	<b>22.74</b>	<b>95</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-7	0.9156	8	87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-8	11.88	54	87	No	21	0	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>77.45</b>	<b>181</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

# Upper Tolerance Limits

Plant Greene County Client: Southern Company Data: Greene County AP Printed 12/9/2022, 11:08 AM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bq N</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.00137	133	n/a	92.48	n/a	n/a	0.00109	NP Inter(NDs)
Arsenic (mg/L)	0.0044	133	n/a	81.2	n/a	n/a	0.00109	NP Inter(NDs)
Barium (mg/L)	0.347	133	n/a	0	n/a	n/a	0.00109	NP Inter(normality)
Beryllium (mg/L)	0.00226	133	n/a	87.97	n/a	n/a	0.00109	NP Inter(NDs)
Cadmium (mg/L)	0.000912	133	n/a	72.18	n/a	n/a	0.00109	NP Inter(normality)
Chromium (mg/L)	0.01	133	n/a	78.95	n/a	n/a	0.00109	NP Inter(NDs)
Cobalt (mg/L)	0.0167	133	n/a	53.38	n/a	n/a	0.00109	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	3.88	133	n/a	3.008	n/a	n/a	0.00109	NP Inter(normality)
Fluoride (mg/L)	0.159	134	n/a	70.15	n/a	n/a	0.001035	NP Inter(normality)
Lead (mg/L)	0.0002	133	n/a	98.5	n/a	n/a	0.00109	NP Inter(NDs)
Lithium (mg/L)	0.02	133	n/a	100	n/a	n/a	0.00109	NP Inter(NDs)
Mercury (mg/L)	0.0005	133	n/a	100	n/a	n/a	0.00109	NP Inter(NDs)
Molybdenum (mg/L)	0.00308	133	n/a	96.99	n/a	n/a	0.00109	NP Inter(NDs)
Selenium (mg/L)	0.0072	133	n/a	87.97	n/a	n/a	0.00109	NP Inter(NDs)
Thallium (mg/L)	0.00039	133	n/a	98.5	n/a	n/a	0.00109	NP Inter(NDs)



<b>GREENE COUNTY ASH POND GWPS</b>			
<b>Analyte</b>	<b>Units</b>	<b>Background</b>	<b>GWPS</b>
Antimony	mg/L	0.00137	0.006
Arsenic	mg/L	0.0044	0.01
Barium	mg/L	0.347	2
Beryllium	mg/L	0.00226	0.004
Cadmium	mg/L	0.000912	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0167	0.0167
Combined Radium-226/228	pCi/L	3.88	5
Fluoride	mg/L	0.159	4
Lead	mg/L	0.0002	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.00308	0.1
Selenium	mg/L	0.0072	0.05
Thallium	mg/L	0.00039	0.002

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2019.

# Confidence Interval Summary Table - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 7/19/2023, 2:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GC-AP-MW-1	0.02506	0.01469	0.01	Yes 8	0.01988	0.004889	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.01288	0.01174	0.01	Yes 8	0.01231	0.0005357	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-14	0.0285	0.02028	0.01	Yes 8	0.02439	0.003875	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-16	0.1017	0.06624	0.01	Yes 8	0.08396	0.01672	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-17	1.02	0.5406	0.01	Yes 8	0.7801	0.2259	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.05042	0.04785	0.01	Yes 8	0.04914	0.001213	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-5	0.4472	0.3741	0.01	Yes 8	0.4106	0.03447	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-1	0.2796	0.1604	0.0167	Yes 8	0.22	0.05621	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-10	0.04115	0.01747	0.0167	Yes 8	0.02896	0.0131	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-14	0.04133	0.02982	0.0167	Yes 8	0.03558	0.005427	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.01948	0.0177	0.0167	Yes 8	0.01859	0.0008391	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-2	0.0348	0.01923	0.0167	Yes 8	0.02701	0.007346	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-9	0.03025	0.01723	0.0167	Yes 8	0.02374	0.006142	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-10	0.2674	0.1088	0.04	Yes 8	0.1881	0.07483	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-11	0.1332	0.07981	0.04	Yes 8	0.1065	0.02517	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-12	0.1484	0.08286	0.04	Yes 8	0.1156	0.03091	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.6224	0.2261	0.04	Yes 8	0.4243	0.187	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	0.8624	0.5346	0.04	Yes 8	0.6985	0.1547	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.6235	0.5505	0.04	Yes 8	0.587	0.03446	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.66	0.5835	0.04	Yes 8	0.6218	0.03613	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.7573	0.5457	0.04	Yes 8	0.6515	0.09978	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-18	0.3853	0.2992	0.04	Yes 8	0.3423	0.04063	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-21	0.146	0.0683	0.04	Yes 8	0.08874	0.02435	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-5	0.1387	0.09078	0.04	Yes 8	0.1147	0.02259	0	None	No	0.01	Param.

# Confidence Interval Summary Table - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 7/19/2023, 2:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GC-AP-MW-13	0.003338	0.001667	0.006	No	8	0.002503	0.0007887	0	None	No	0.01	Param.
Antimony (mg/L)	GC-AP-MW-7	0.001015	0.00066	0.006	No	8	0.0009375	0.0001455	75	None	No	0.004	NP (NDs)
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-1</b>	<b>0.02506</b>	<b>0.01469</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0.01988</b>	<b>0.004889</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>0.01288</b>	<b>0.01174</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0.01231</b>	<b>0.0005357</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	GC-AP-MW-11	0.005407	0.001963	0.01	No	8	0.003685	0.001624	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-12	0.0002871	0.0001929	0.01	No	8	0.0002431	0.00004762	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-13	0.005535	0.001658	0.01	No	8	0.003534	0.001978	0	None	sqrt(x)	0.01	Param.
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.0285</b>	<b>0.02028</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0.02439</b>	<b>0.003875</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	GC-AP-MW-15	0.000412	0.0002145	0.01	No	8	0.0003133	0.00009956	37.5	Kaplan-Meier	No	0.01	Param.
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>0.1017</b>	<b>0.06624</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0.08396</b>	<b>0.01672</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>1.02</b>	<b>0.5406</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0.7801</b>	<b>0.2259</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-18</b>	<b>0.05042</b>	<b>0.04785</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0.04914</b>	<b>0.001213</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	GC-AP-MW-2	0.01291	0.003156	0.01	No	8	0.007969	0.006488	0	None	ln(x)	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-21	0.0002059	0.0001073	0.01	No	8	0.0001944	0.00002626	50	Kaplan-Meier	x^5	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-25	0.0003382	0.000195	0.01	No	8	0.0002663	0.00008182	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-3	0.01203	0.008286	0.01	No	8	0.01016	0.001765	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-31	0.000203	0.000111	0.01	No	8	0.0001915	0.00003253	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-32	0.000203	0.000142	0.01	No	8	0.0001938	0.0000214	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-33	0.000242	0.000081	0.01	No	8	0.000186	0.00004914	62.5	None	No	0.004	NP (NDs)
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>0.4472</b>	<b>0.3741</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0.4106</b>	<b>0.03447</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	GC-AP-MW-6	0.0002568	0.000123	0.01	No	8	0.0002134	0.00005456	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-7	0.000203	0.00008	0.01	No	8	0.0001613	0.00005018	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-8	0.0002671	0.0001461	0.01	No	8	0.0002265	0.00004361	37.5	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-9	0.0108	0.00316	0.01	No	8	0.008873	0.002739	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-1	0.02943	0.02019	2	No	8	0.02481	0.004359	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-10	0.2792	0.204	2	No	8	0.2416	0.0355	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-11	0.0949	0.05415	2	No	8	0.07453	0.01922	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-12	0.03631	0.02441	2	No	8	0.03036	0.005616	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-13	0.2054	0.04573	2	No	8	0.1256	0.07533	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-14	0.1236	0.08119	2	No	8	0.1024	0.02	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-15	0.0406	0.03388	2	No	8	0.03724	0.003168	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-16	0.1119	0.0857	2	No	8	0.09879	0.01235	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-17	0.3277	0.2561	2	No	8	0.2919	0.03376	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-18	0.09315	0.07038	2	No	8	0.08176	0.01074	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-2	0.03625	0.03077	2	No	8	0.03351	0.002586	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-21	0.1036	0.05444	2	No	8	0.07901	0.02319	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-25	0.1082	0.07307	2	No	8	0.09063	0.01656	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-3	0.1577	0.1183	2	No	8	0.138	0.01863	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-31	0.03375	0.0267	2	No	8	0.03023	0.003327	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-32	0.0764	0.0127	2	No	8	0.0285	0.02742	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-33	0.1015	0.0282	2	No	8	0.06485	0.03458	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-5	0.323	0.131	2	No	8	0.1598	0.06606	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-6	0.07734	0.06266	2	No	8	0.07	0.006929	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-7	0.08717	0.0716	2	No	8	0.07939	0.007343	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-8	0.137	0.104	2	No	8	0.1205	0.01558	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-9	0.1858	0.1417	2	No	8	0.1638	0.0208	0	None	No	0.01	Param.
Cadmium (mg/L)	GC-AP-MW-1	0.000203	0.000089	0.005	No	8	0.0001749	0.00005208	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-11	0.000347	0.000203	0.005	No	8	0.000221	0.00005091	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-13	0.000203	0.00008	0.005	No	8	0.0001804	0.00004535	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-15	0.00046	0.00012	0.005	No	8	0.0002068	0.000108	37.5	None	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-16	0.000203	0.000069	0.005	No	8	0.0001863	0.00004738	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-2	0.000203	0.000077	0.005	No	8	0.0001678	0.00005093	62.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-21	0.000203	0.00007	0.005	No	8	0.000149	0.00006146	50	None	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-25	0.000203	0.00007	0.005	No	8	0.0001444	0.00006321	50	None	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-6	0.00278	0.000081	0.005	No	8	0.0005441	0.0009113	50	None	No	0.004	NP (normality)

# Confidence Interval Summary Table - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 7/19/2023, 2:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	GC-AP-MW-8	0.000241	0.000203	0.005	No	8	0.0002078	0.00001344	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-1	0.001015	0.000287	0.1	No	8	0.0005986	0.0003478	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-10	0.001015	0.000217	0.1	No	8	0.0006665	0.0003752	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-11	0.001015	0.00023	0.1	No	8	0.0006424	0.0003988	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-12	0.001015	0.000224	0.1	No	8	0.0006745	0.0003682	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-13	0.001015	0.000232	0.1	No	8	0.0005481	0.0003876	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-14	0.001015	0.00023	0.1	No	8	0.0006503	0.0003917	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-15	0.001015	0.00027	0.1	No	8	0.0008326	0.0003378	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-16	0.001015	0.000267	0.1	No	8	0.0006029	0.0003452	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-17	0.001015	0.000211	0.1	No	8	0.0005265	0.0004055	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-18	0.001015	0.00023	0.1	No	8	0.0005648	0.0003742	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-2	0.001056	0.0001374	0.1	No	8	0.000872	0.0008058	37.5	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	GC-AP-MW-21	0.001015	0.00022	0.1	No	8	0.000545	0.0003906	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-25	0.001015	0.000249	0.1	No	8	0.0006624	0.0003798	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-3	0.001015	0.000286	0.1	No	8	0.0005861	0.0003565	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-31	0.001015	0.000268	0.1	No	8	0.0006105	0.000341	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-32	0.001015	0.000301	0.1	No	8	0.0006165	0.0003324	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-33	0.000607	0.0003576	0.1	No	8	0.0006815	0.0002938	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	GC-AP-MW-5	0.001015	0.00025	0.1	No	8	0.0006516	0.0003895	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-6	0.001015	0.000228	0.1	No	8	0.0006411	0.0004013	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-7	0.001015	0.00024	0.1	No	8	0.0005721	0.0003687	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-8	0.001015	0.000217	0.1	No	8	0.0005526	0.000385	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-9	0.001015	0.000238	0.1	No	8	0.0005753	0.0003671	37.5	None	No	0.004	NP (normality)
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-1</b>	<b>0.2796</b>	<b>0.1604</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0.22</b>	<b>0.05621</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>0.04115</b>	<b>0.01747</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0.02896</b>	<b>0.0131</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	GC-AP-MW-11	0.03939	0.01636	0.0167	No	8	0.02788	0.01086	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-12	0.0009955	0.0002332	0.0167	No	8	0.0006144	0.0003844	37.5	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-13	0.002026	0.0005362	0.0167	No	8	0.001246	0.001668	37.5	Kaplan-Meier	ln(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.04133</b>	<b>0.02982</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0.03558</b>	<b>0.005427</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>0.01948</b>	<b>0.0177</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0.01859</b>	<b>0.0008391</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	GC-AP-MW-16	0.01596	0.01402	0.0167	No	8	0.01499	0.0009156	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-17	0.01463	0.009194	0.0167	No	8	0.01191	0.002563	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-18	0.01927	0.01618	0.0167	No	8	0.01773	0.001456	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-2</b>	<b>0.0348</b>	<b>0.01923</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0.02701</b>	<b>0.007346</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	GC-AP-MW-21	0.003612	0.0001748	0.0167	No	8	0.001894	0.001734	37.5	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-25	0.01428	0.01018	0.0167	No	8	0.01223	0.001937	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-3	0.002799	0.0001522	0.0167	No	8	0.001391	0.001657	12.5	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-31	0.0006655	-0.0002792	0.0167	No	8	0.0004748	0.0002284	37.5	Kaplan-Meier	x^4	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-32	0.00105	0.000203	0.0167	No	8	0.000397	0.0003612	75	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-33	0.00117	0.000203	0.0167	No	8	0.0005105	0.0004304	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-5	0.009143	0.00596	0.0167	No	8	0.007551	0.001502	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-6	0.003642	0.001978	0.0167	No	8	0.00281	0.0007849	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-7	0.003891	0.001709	0.0167	No	8	0.0028	0.001029	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-8	0.01061	0.005464	0.0167	No	8	0.008038	0.002428	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>0.03025</b>	<b>0.01723</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0.02374</b>	<b>0.006142</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-1	1.473	0.8448	5	No	8	1.159	0.2965	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-10	2.08	1.04	5	No	8	1.323	0.3667	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-11	0.7492	0.36	5	No	8	0.5546	0.1836	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-12	1.137	0.01247	5	No	8	0.5747	0.5304	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-13	0.5612	0.344	5	No	8	0.4496	0.1286	0	None	x^5	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-14	1.554	0.7924	5	No	8	1.173	0.3592	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-15	0.983	0.273	5	No	8	0.5389	0.2666	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-16	1.571	0.417	5	No	8	0.9939	0.5443	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-17	2.274	1.284	5	No	8	1.776	0.5631	0	None	x^4	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-18	1.609	0.8514	5	No	8	1.224	0.3837	0	None	sqrt(x)	0.01	Param.

# Confidence Interval Summary Table - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 7/19/2023, 2:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-2	1.738	0.4609	5	No	8	1.099	0.6024	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-21	0.8379	0.06616	5	No	8	0.4521	0.3641	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-25	1.162	0.2423	5	No	8	0.7021	0.4339	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-3	1.1	0.5795	5	No	8	0.84	0.2457	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-31	0.7949	0.2132	5	No	8	0.504	0.2744	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-32	3.18	-0.464	5	No	8	0.8926	1.045	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-33	3.41	0.771	5	No	8	1.504	0.9115	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-5	2.057	1.081	5	No	8	1.569	0.4602	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-6	1.119	0.5626	5	No	8	0.841	0.2627	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-7	1.023	0.5145	5	No	8	0.7638	0.2496	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-8	1.489	0.6084	5	No	8	1.049	0.4154	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-9	1.887	1.123	5	No	8	1.505	0.3608	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-1	0.1601	0.1134	4	No	8	0.1368	0.02205	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-10	0.3051	0.2158	4	No	8	0.2604	0.04212	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-11	0.1824	0.08524	4	No	8	0.1338	0.04581	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-12	0.2365	0.142	4	No	8	0.1893	0.04461	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-13	0.116	0.08306	4	No	8	0.09026	0.02237	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-14	0.269	0.2155	4	No	8	0.2423	0.02522	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-15	0.155	0.1177	4	No	8	0.1364	0.0176	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-16	0.2928	0.2501	4	No	8	0.2714	0.02011	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-17	0.5954	0.4905	4	No	8	0.5429	0.04946	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-18	0.2069	0.154	4	No	8	0.1804	0.02494	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-2	0.1603	0.08159	4	No	8	0.1209	0.03713	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-21	0.1821	0.08622	4	No	8	0.1342	0.04523	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-25	0.1006	0.07702	4	No	8	0.1024	0.02096	37.5	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-3	0.1926	0.1094	4	No	8	0.151	0.03921	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-31	0.125	0.0671	4	No	8	0.1178	0.02047	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-32	0.125	0.0518	4	No	8	0.1159	0.02588	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-5	0.2837	0.1905	4	No	8	0.2371	0.04395	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-6	0.2228	0.162	4	No	8	0.1924	0.02867	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-7	0.1099	0.0798	4	No	8	0.09486	0.01421	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-8	0.179	0.0981	4	No	8	0.1223	0.02599	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-9	0.1842	0.115	4	No	8	0.1491	0.03945	12.5	None	x^2	0.01	Param.
Lead (mg/L)	GC-AP-MW-16	0.000203	0.000089	0.015	No	8	0.000144	0.00005178	37.5	None	No	0.004	NP (normality)
Lead (mg/L)	GC-AP-MW-2	0.0006535	0.0002245	0.015	No	8	0.000439	0.0002164	37.5	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	GC-AP-MW-25	0.000203	0.0000884	0.015	No	8	0.0001887	0.00004052	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-31	0.000203	0.00015	0.015	No	8	0.0001964	0.00001874	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-32	0.000203	0.000121	0.015	No	8	0.0001861	0.00003219	75	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-33	0.000203	0.000115	0.015	No	8	0.0001841	0.00003339	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-9	0.000203	0.0000784	0.015	No	8	0.0001874	0.00004405	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lithium (mg/L)	GC-AP-MW-10	0.2674	0.1088	0.04	Yes	8	0.1881	0.07483	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-11	0.1332	0.07981	0.04	Yes	8	0.1065	0.02517	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-12	0.1484	0.08286	0.04	Yes	8	0.1156	0.03091	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.6224	0.2261	0.04	Yes	8	0.4243	0.187	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	0.8624	0.5346	0.04	Yes	8	0.6985	0.1547	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.6235	0.5505	0.04	Yes	8	0.587	0.03446	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.66	0.5835	0.04	Yes	8	0.6218	0.03613	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.7573	0.5457	0.04	Yes	8	0.6515	0.09978	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-18	0.3853	0.2992	0.04	Yes	8	0.3423	0.04063	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-21	0.146	0.0683	0.04	Yes	8	0.08874	0.02435	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-5	0.1387	0.09078	0.04	Yes	8	0.1147	0.02259	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-6	0.03231	0.008828	0.04	No	8	0.02259	0.01288	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-8	0.06436	0.004282	0.04	No	8	0.03635	0.02871	25	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-9	0.08852	0.008151	0.04	No	8	0.04834	0.03791	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-1	0.01015	0.000117	0.1	No	8	0.008896	0.003547	87.5	None	No	0.004	NP (NDs)

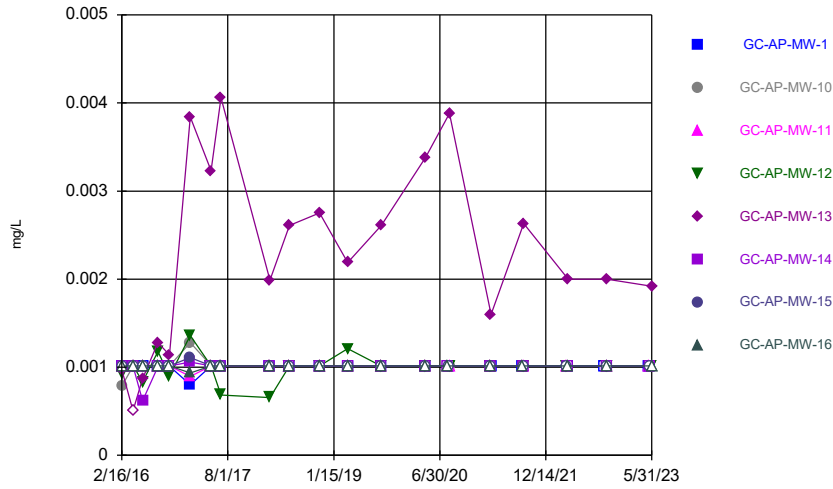
# Confidence Interval Summary Table - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 7/19/2023, 2:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	GC-AP-MW-10	0.01159	0.006461	0.1	No	8	0.009025	0.002419	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-11	0.01817	0.006967	0.1	No	8	0.01257	0.005287	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-12	0.134	0.0514	0.1	No	8	0.07556	0.02928	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-13	0.07717	0.0117	0.1	No	8	0.04478	0.04811	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-14	0.01842	0.01193	0.1	No	8	0.01518	0.003058	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-16	0.01015	0.000113	0.1	No	8	0.00515	0.005346	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-17	0.0694	0.0468	0.1	No	8	0.05711	0.009386	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-18	0.01015	0.000305	0.1	No	8	0.005248	0.00524	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-2	0.01015	0.0000804	0.1	No	8	0.007644	0.004641	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-21	0.0609	0.005075	0.1	No	8	0.02579	0.02514	12.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-25	0.01015	0.0000843	0.1	No	8	0.008892	0.003559	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-31	0.01015	0.0000741	0.1	No	8	0.008891	0.003562	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-5	0.004145	0.002604	0.1	No	8	0.003364	0.0007733	12.5	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-6	0.01015	0.00142	0.1	No	8	0.006003	0.004445	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-7	0.01015	0.00012	0.1	No	8	0.005146	0.00535	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-8	0.01015	0.0000812	0.1	No	8	0.008891	0.00356	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-1	0.001826	0.0006394	0.05	No	8	0.001315	0.0005808	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	GC-AP-MW-12	0.00281	0.00081	0.05	No	8	0.001239	0.000644	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-13	0.02855	0.002496	0.05	No	8	0.01474	0.01383	12.5	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	GC-AP-MW-2	0.001015	0.00054	0.05	No	8	0.0009013	0.0002109	75	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-3	0.001015	0.000551	0.05	No	8	0.0008596	0.0001947	37.5	None	No	0.004	NP (normality)
Selenium (mg/L)	GC-AP-MW-32	0.001015	0.00059	0.05	No	8	0.0009619	0.0001503	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-33	0.001015	0.00071	0.05	No	8	0.0009676	0.0001073	75	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-1	0.0001522	0.0001014	0.002	No	8	0.0001554	0.00004432	37.5	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-11	0.000203	0.00007	0.002	No	8	0.0001415	0.00006607	50	None	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-13	0.002066	0.0004014	0.002	No	8	0.001234	0.0007854	0	None	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-15	0.000203	0.000084	0.002	No	8	0.000149	0.00005879	50	None	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-16	0.0003759	0.0003183	0.002	No	8	0.0003471	0.00002719	0	None	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-2	0.0001537	0.00009952	0.002	No	8	0.0001553	0.00004505	37.5	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-21	0.000203	0.000106	0.002	No	8	0.0001689	0.00004725	62.5	Kaplan-Meier	No	0.004	NP (NDs)

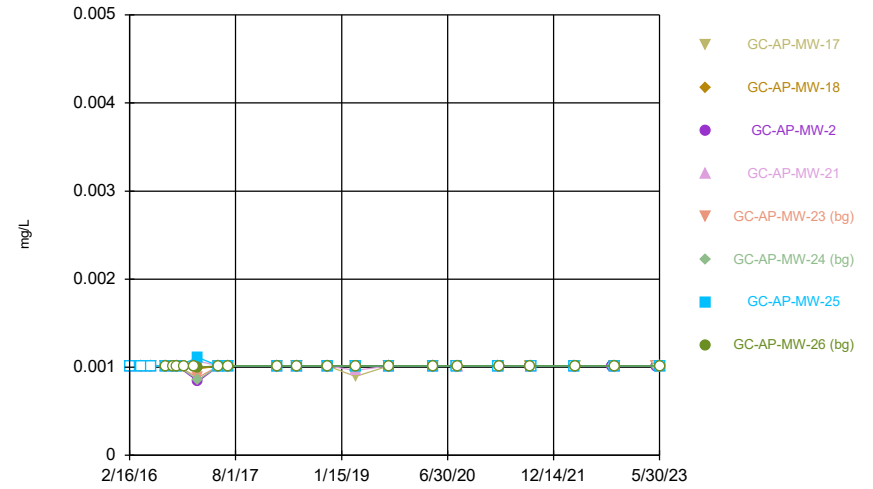
FIGURE A.

Time Series



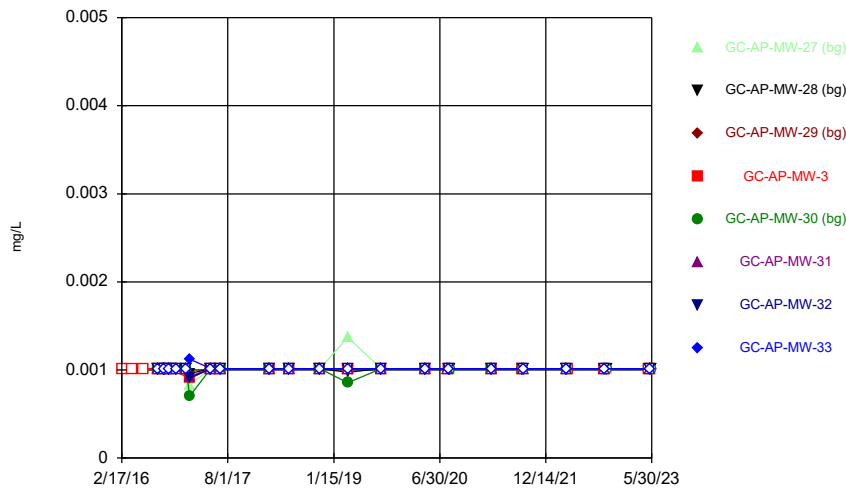
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Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



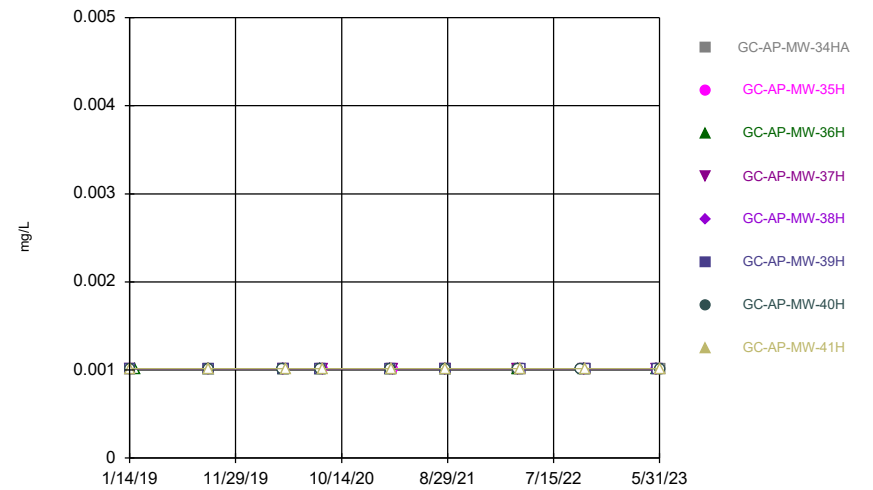
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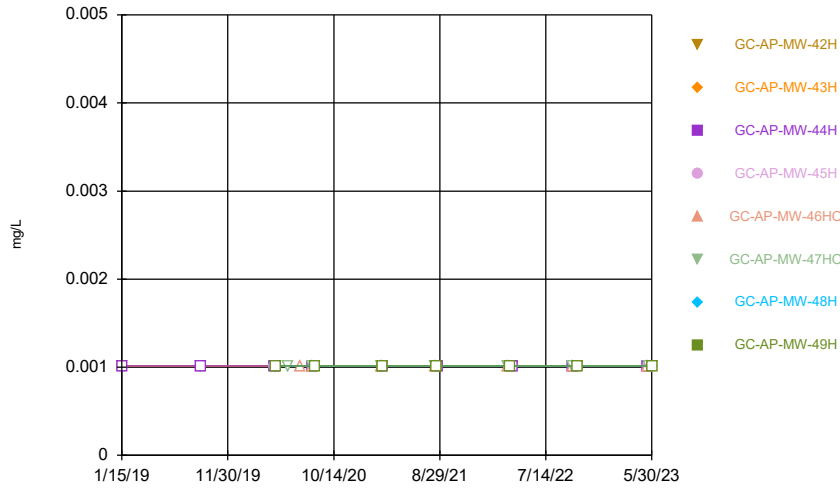
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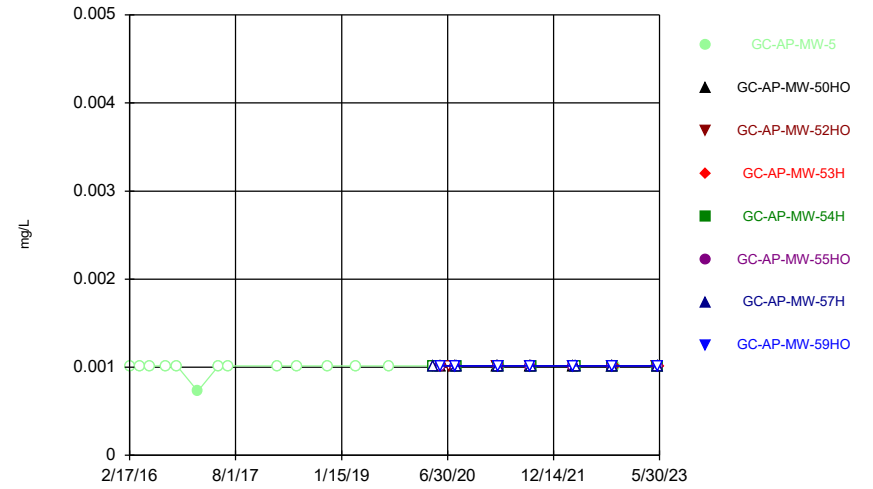


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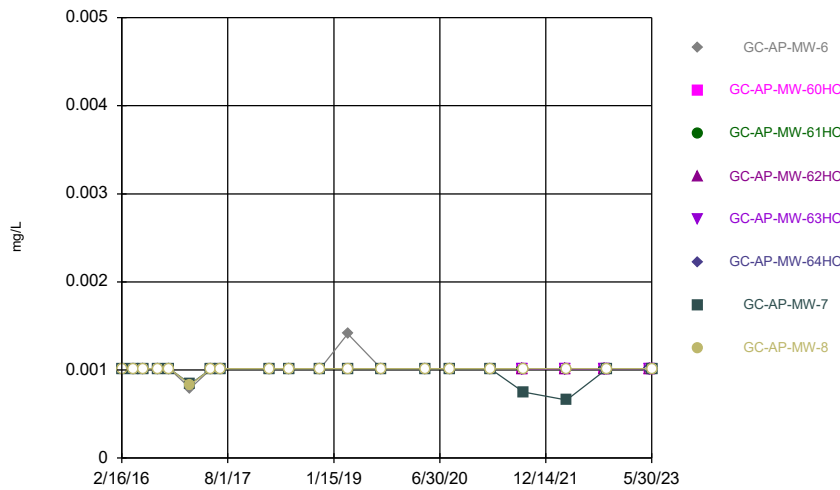
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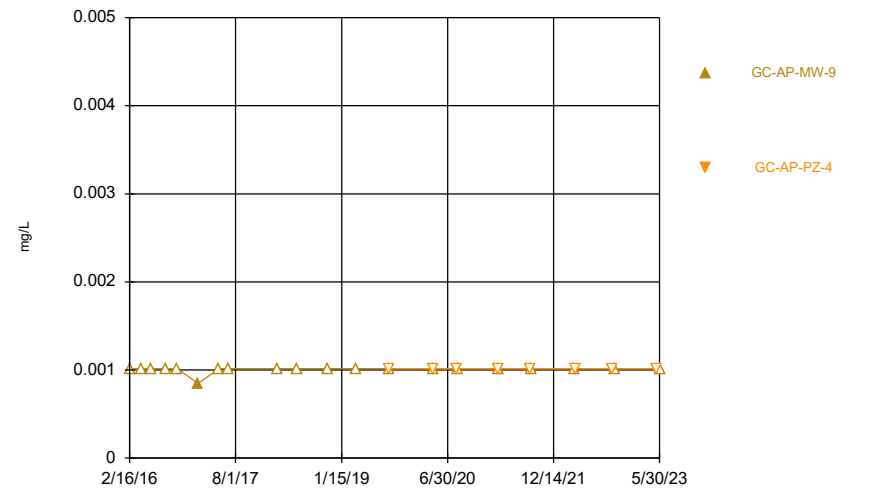
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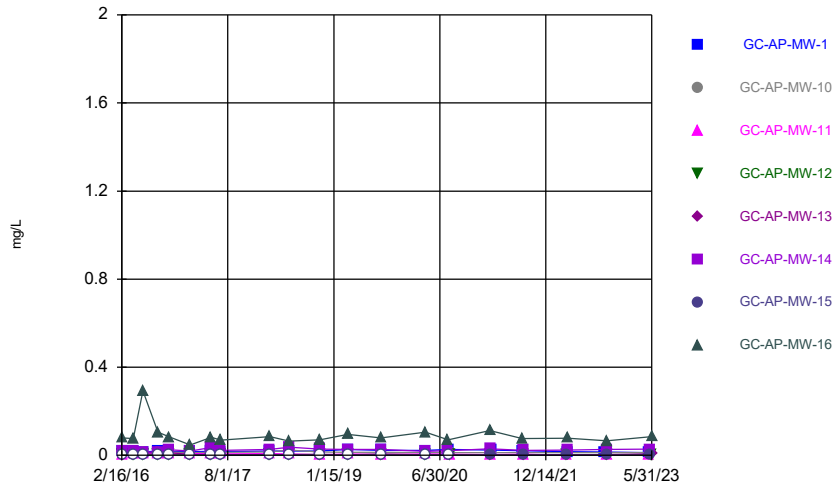
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Time Series



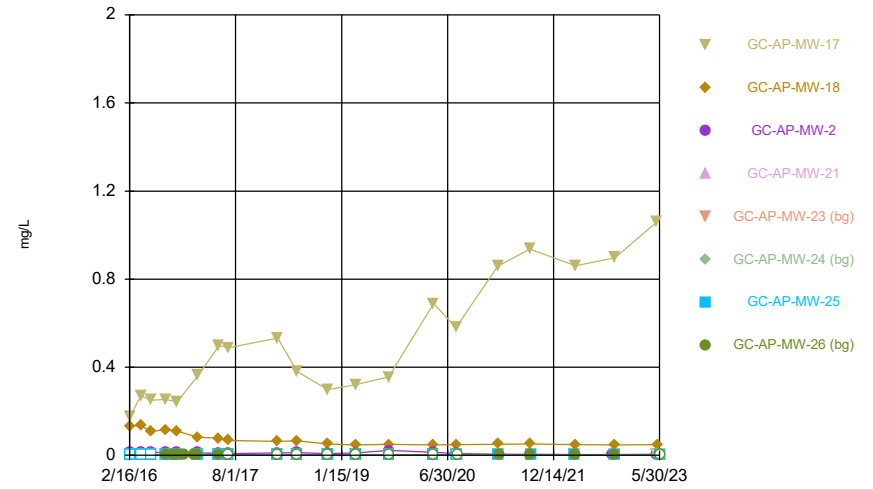
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Time Series



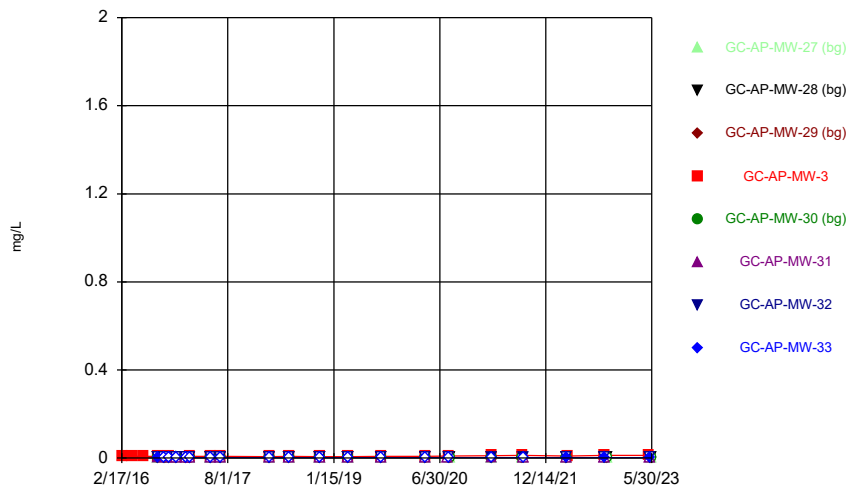
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Time Series



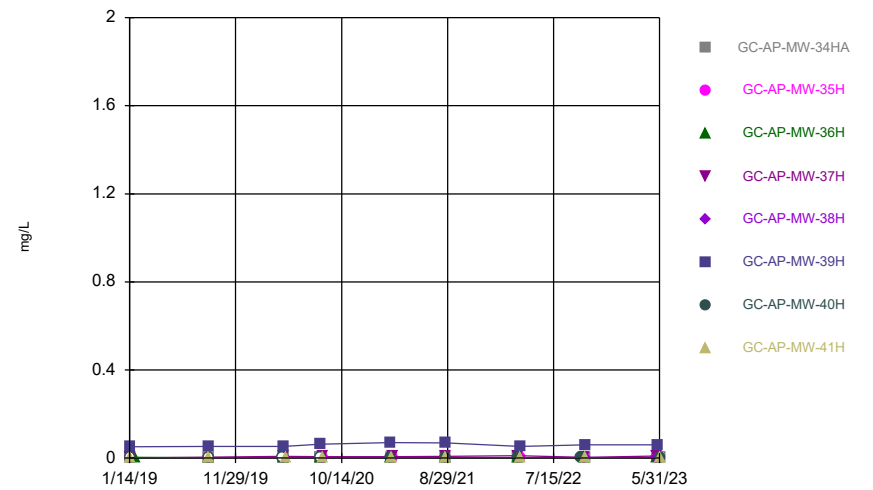
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Time Series



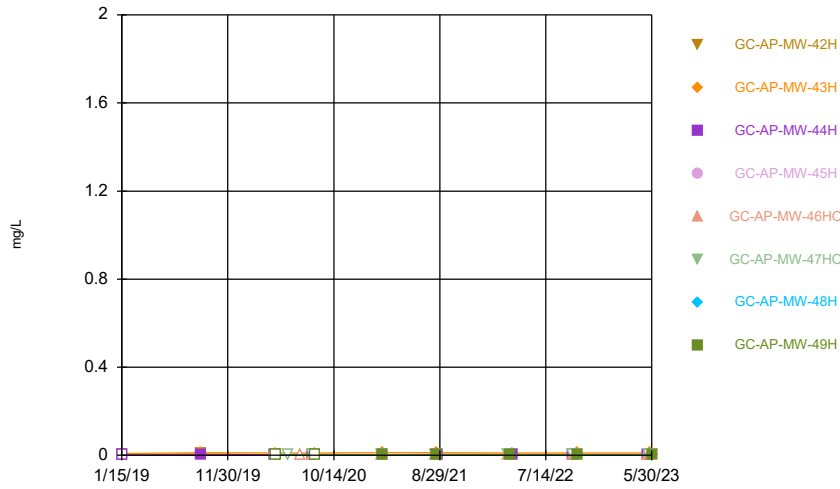
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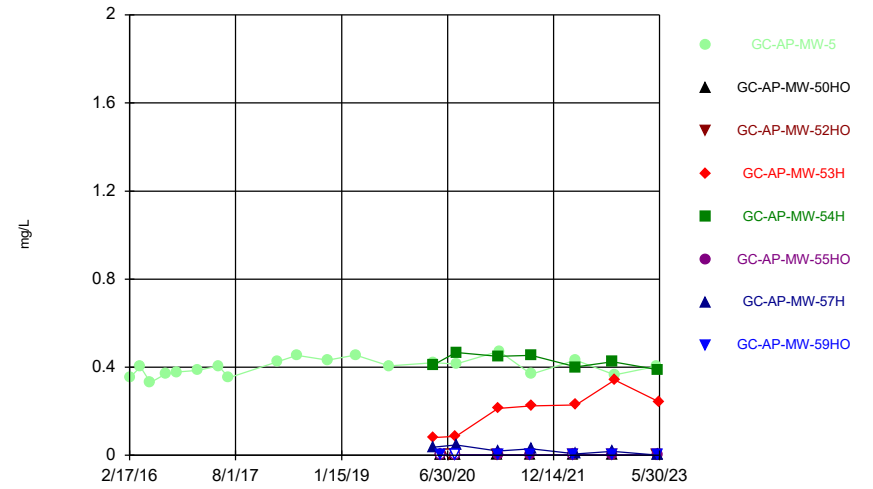
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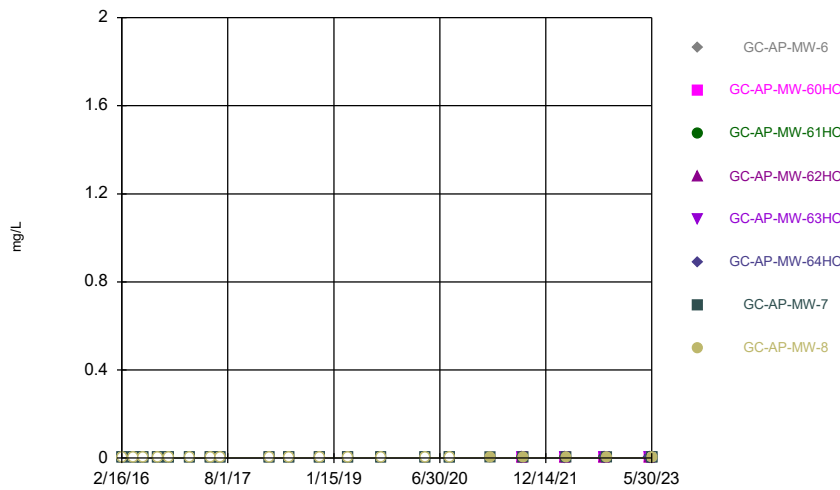
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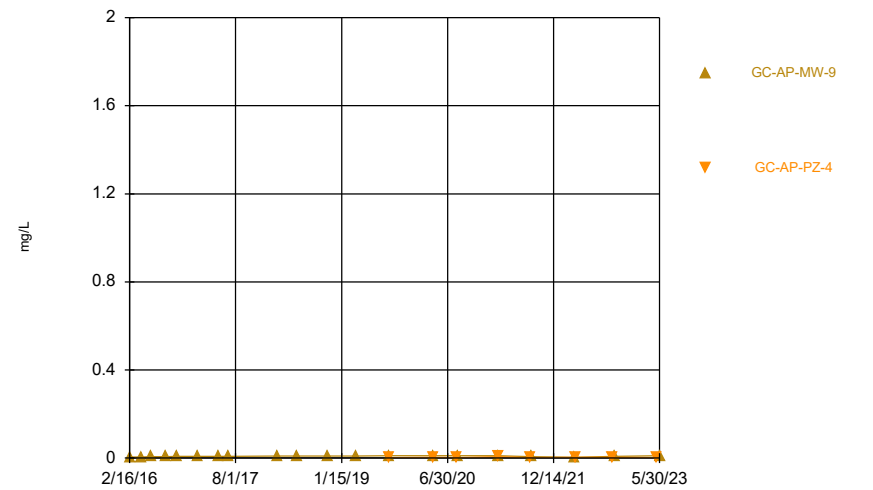
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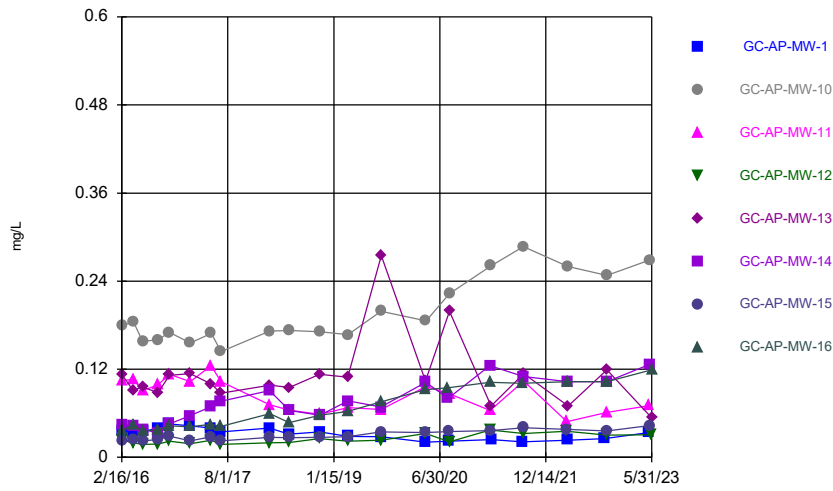
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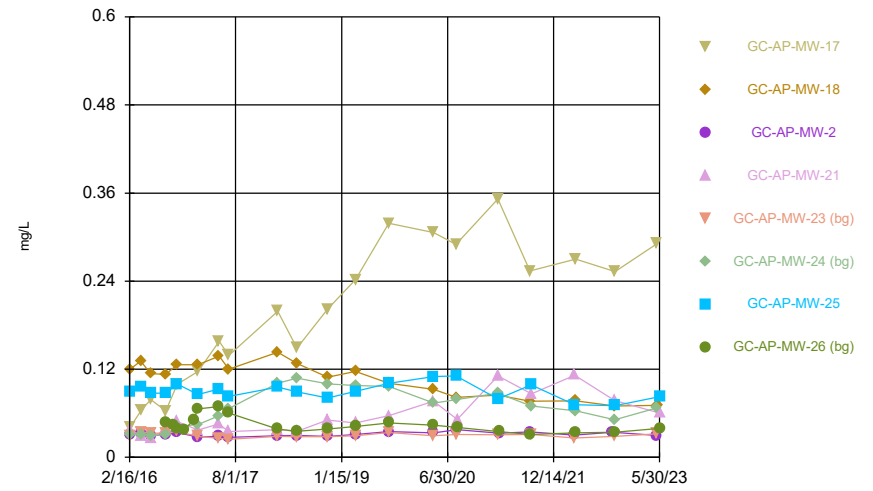
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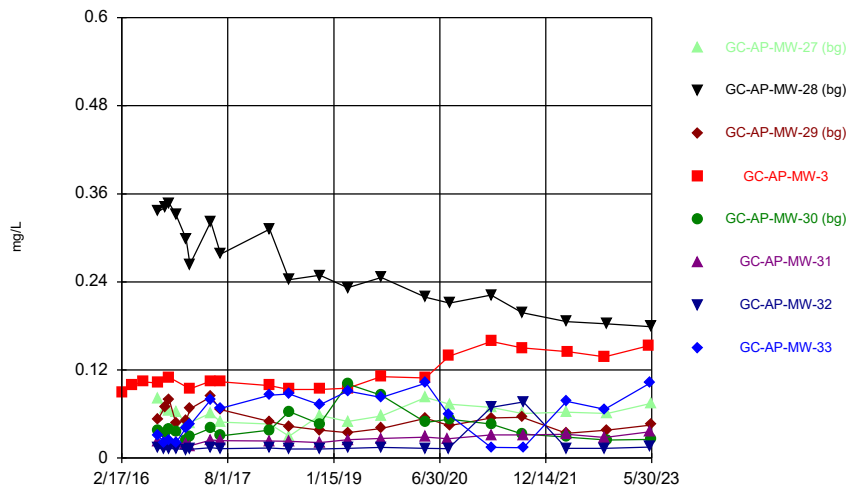
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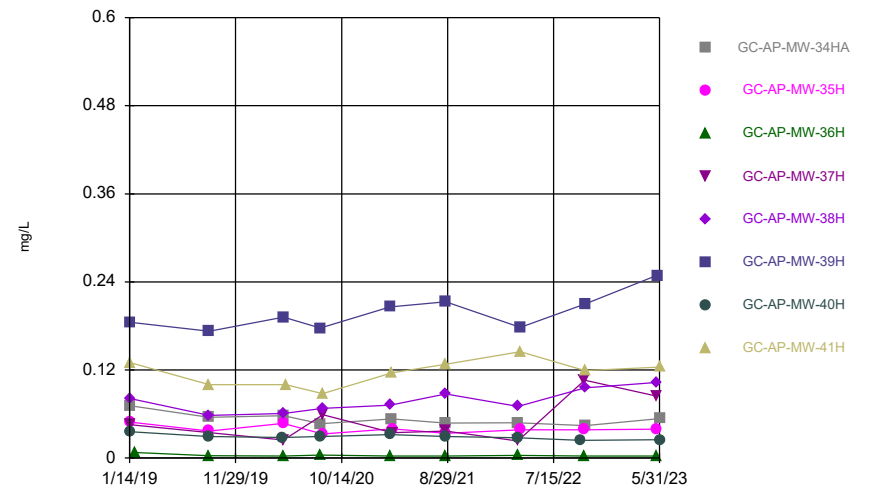
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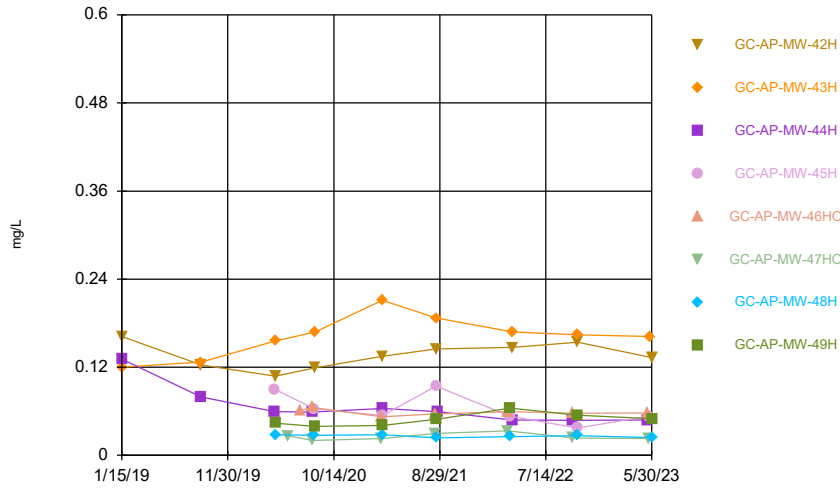
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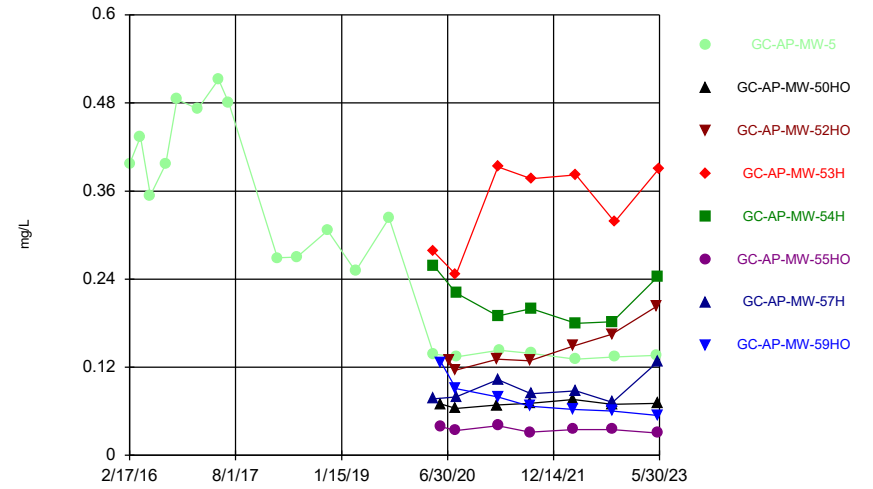
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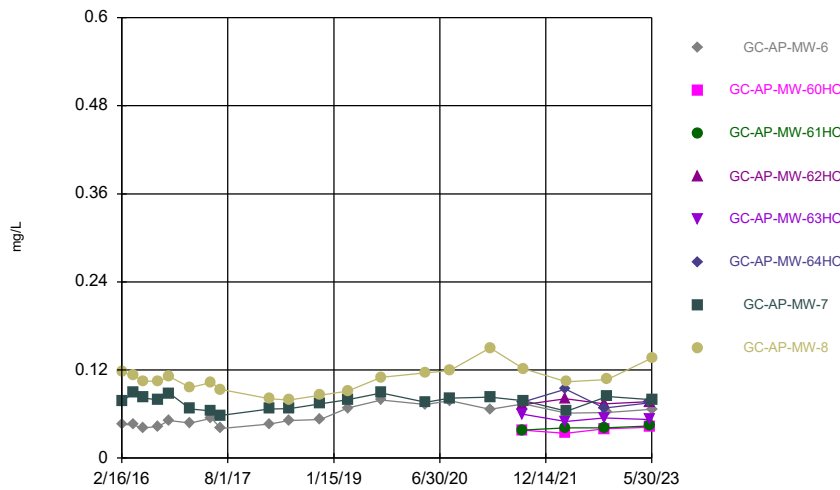
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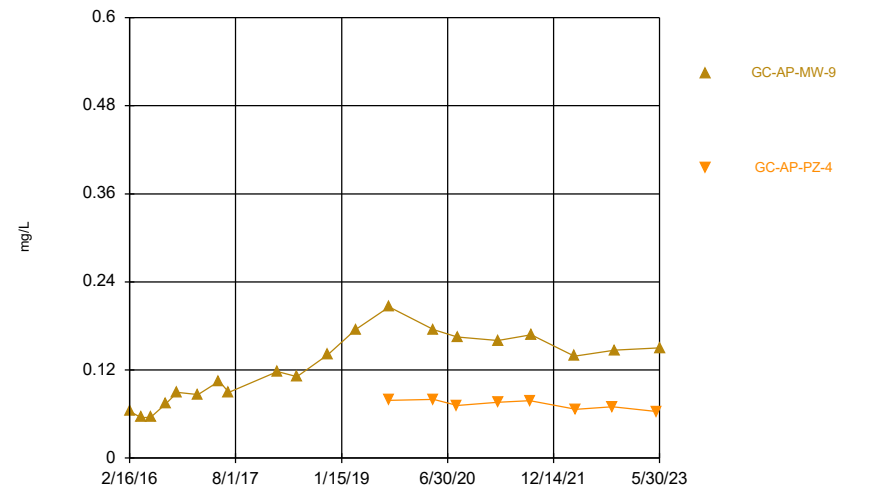
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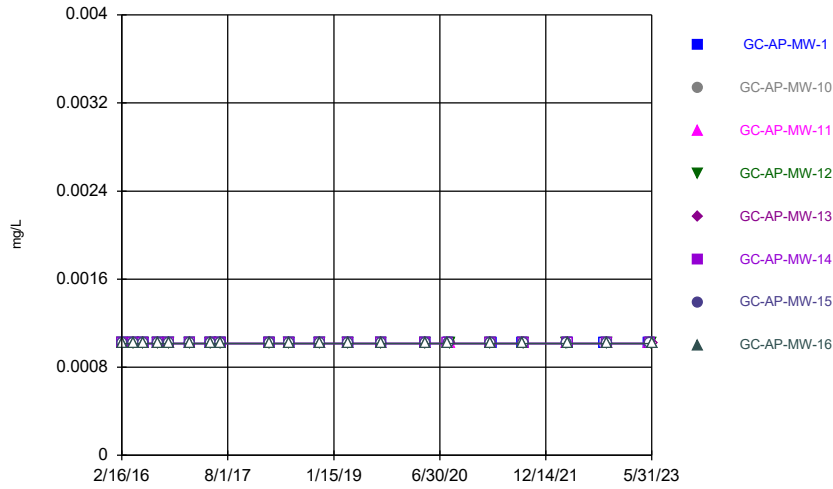
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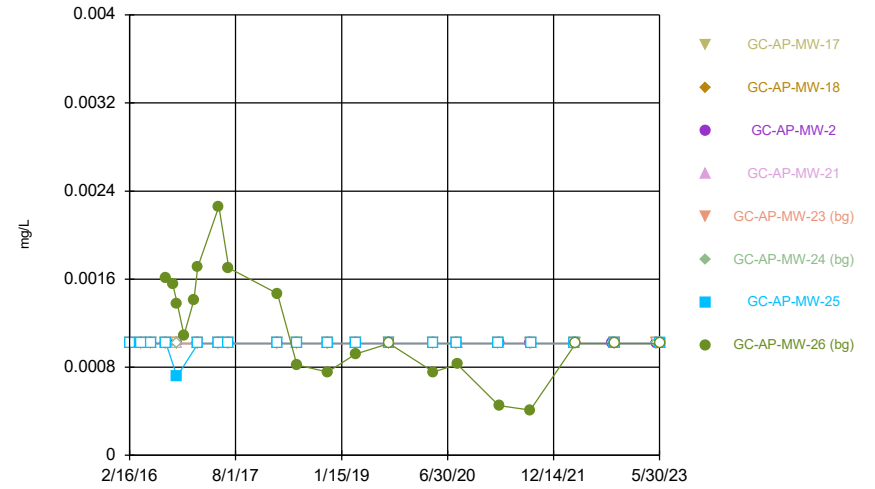
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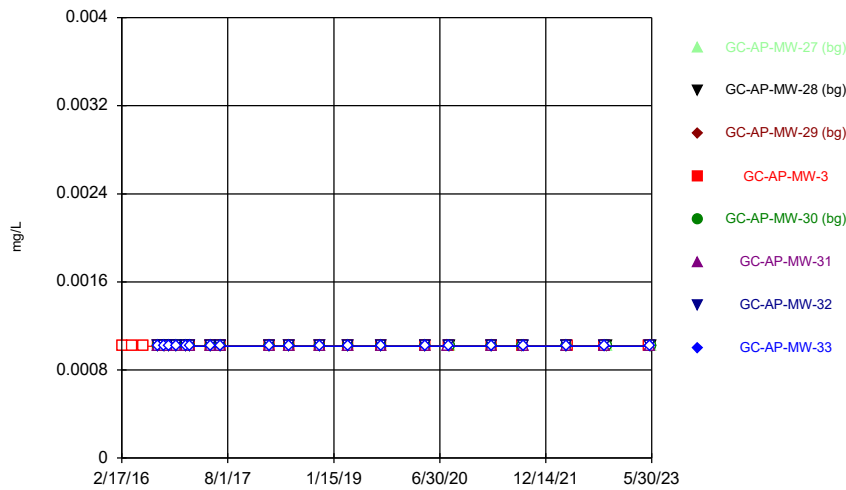
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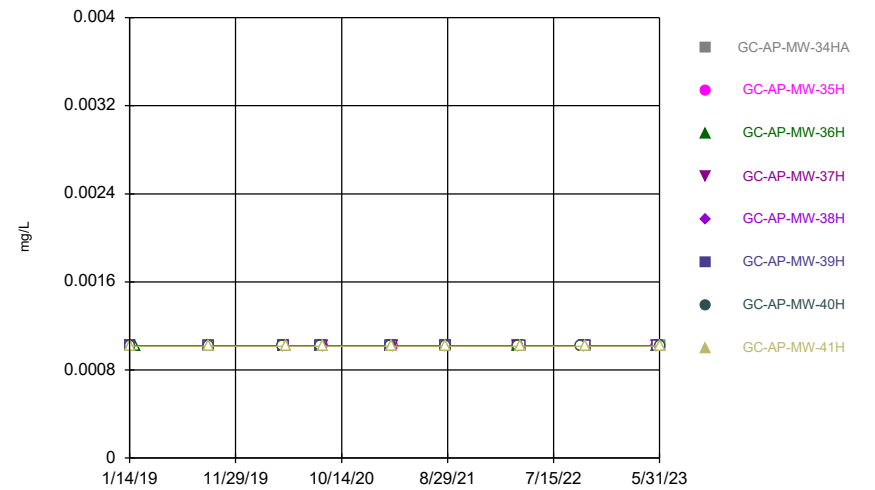
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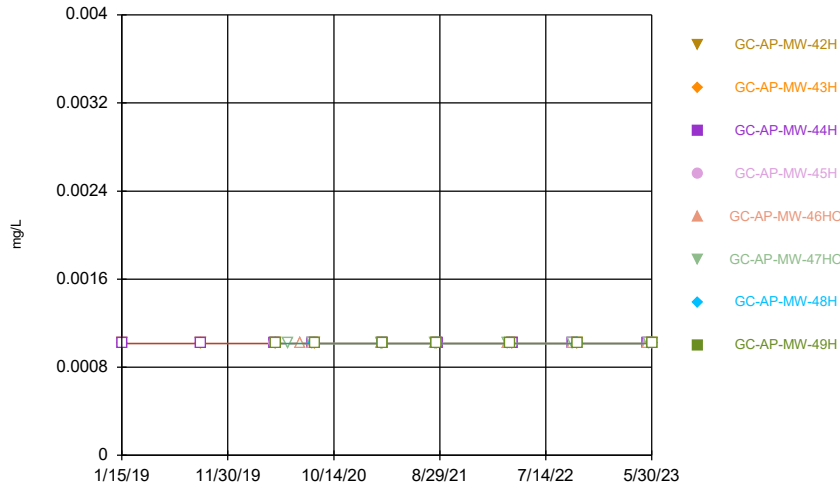
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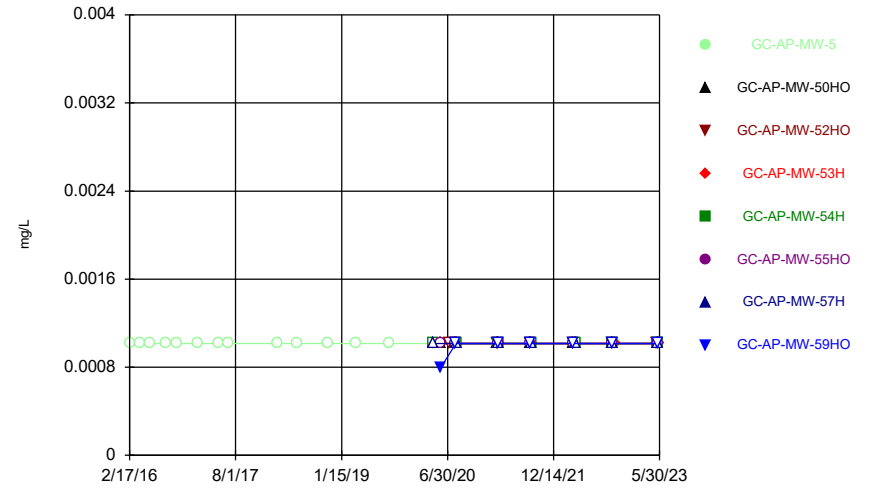
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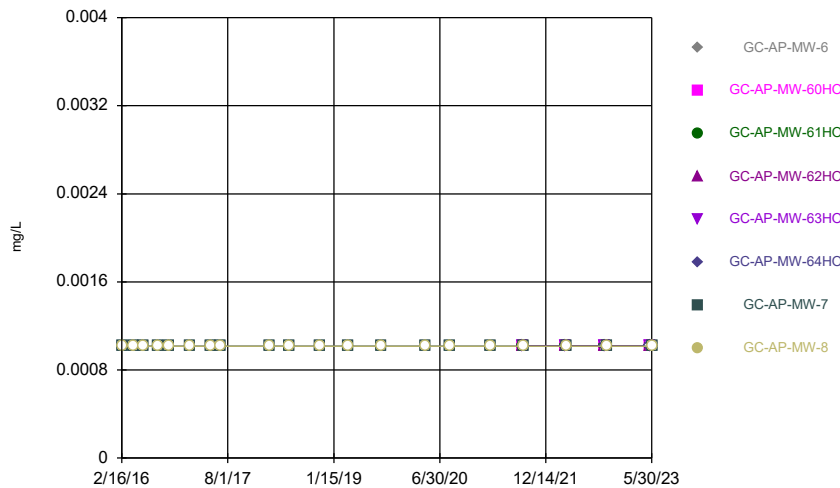
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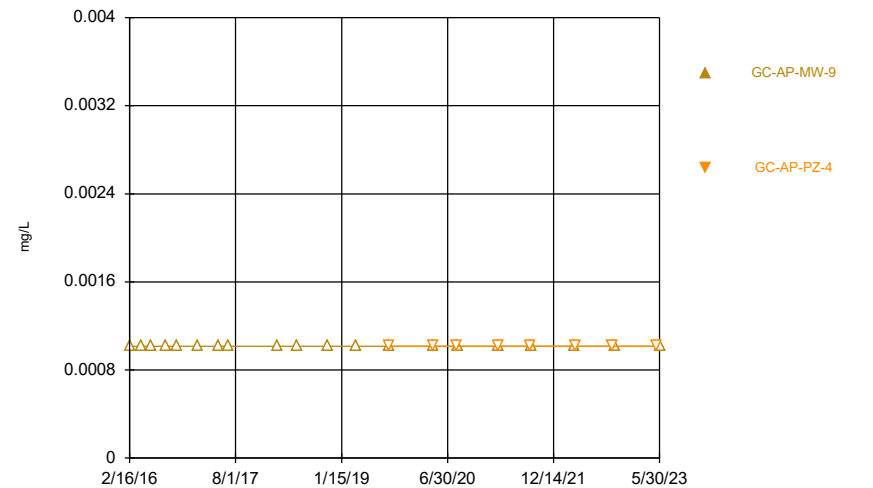
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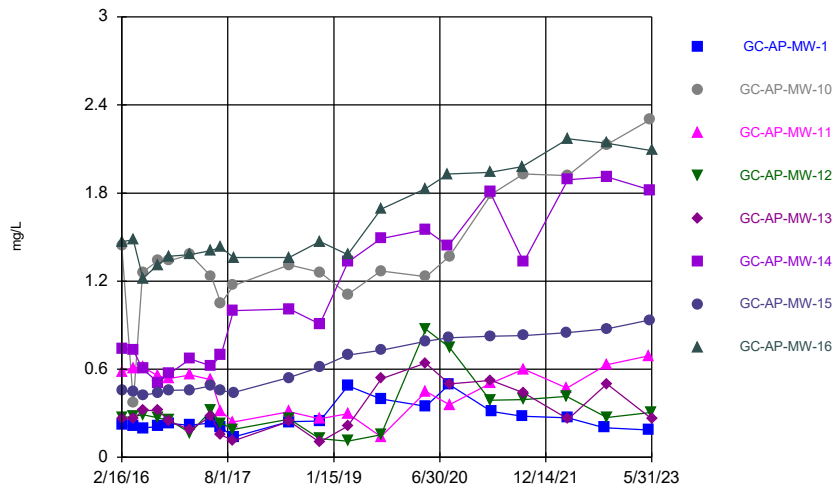
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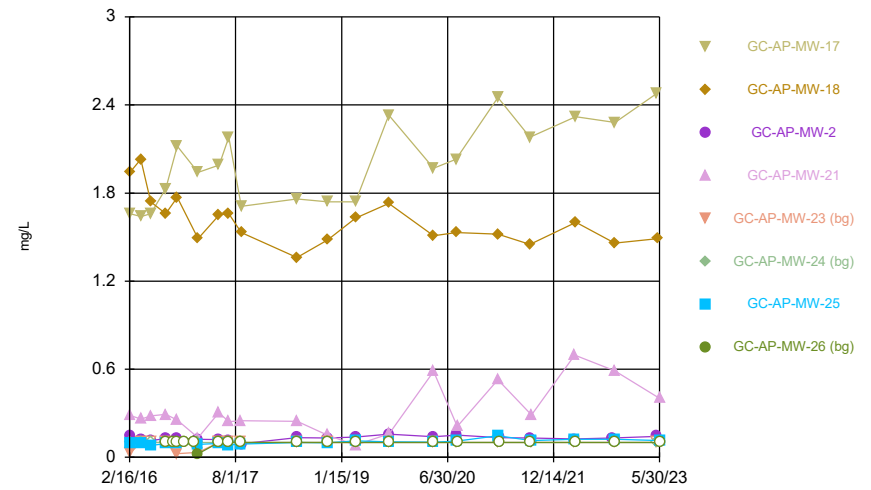
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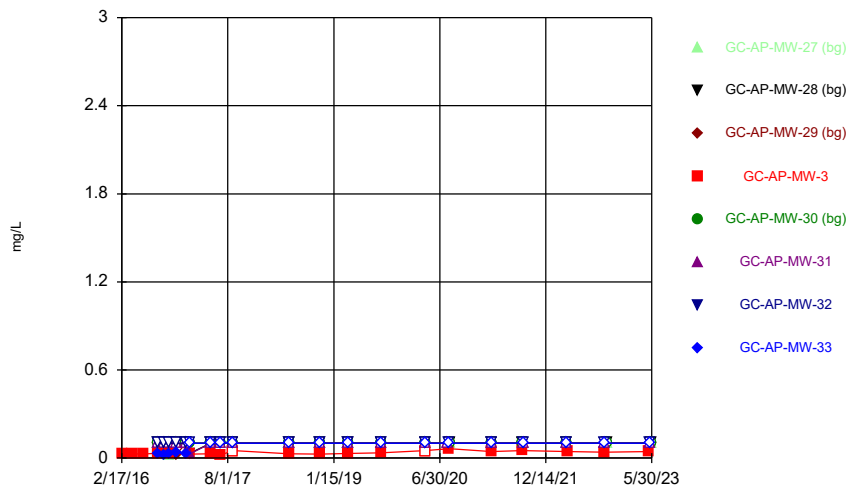
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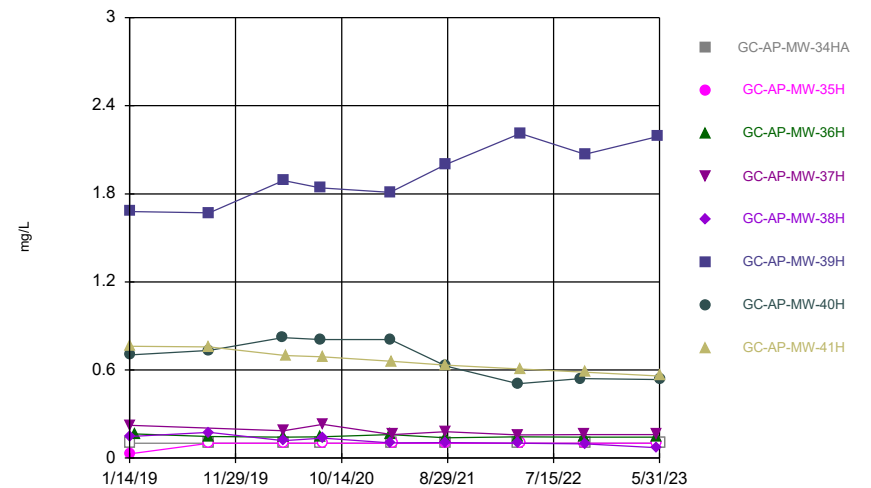
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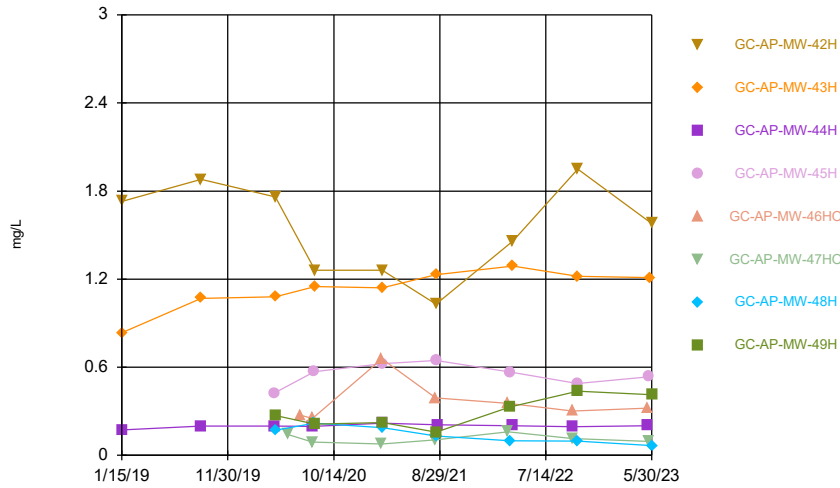
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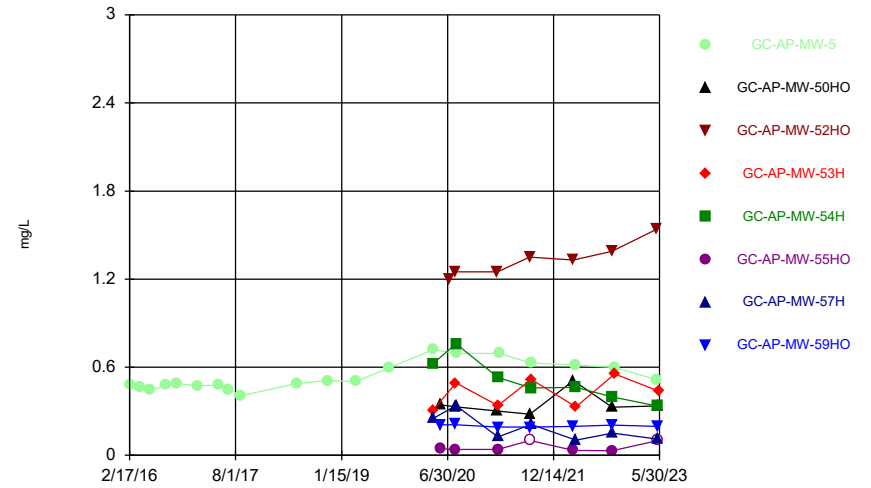
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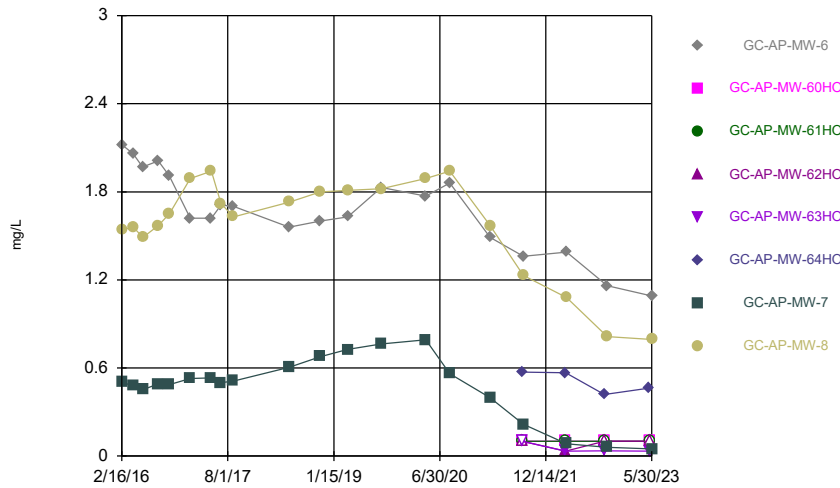
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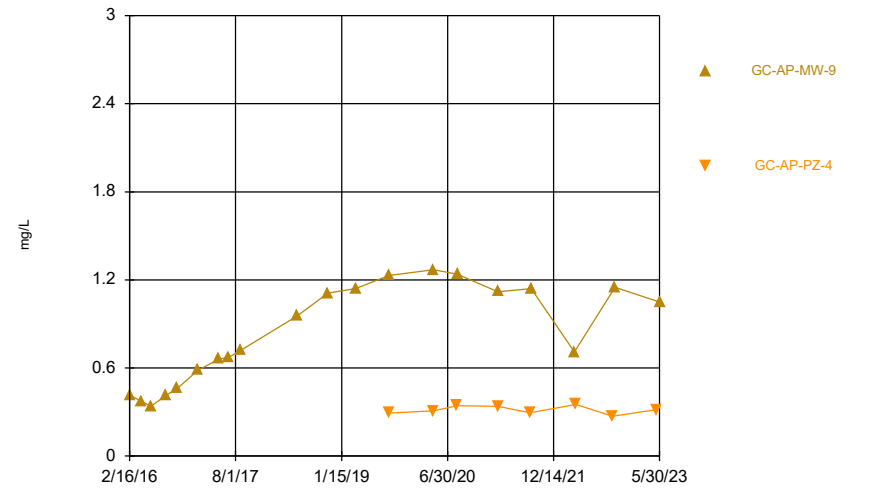
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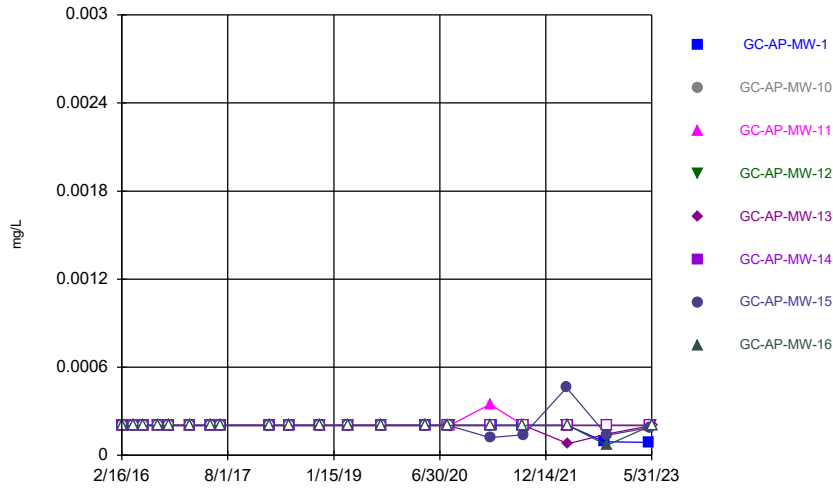
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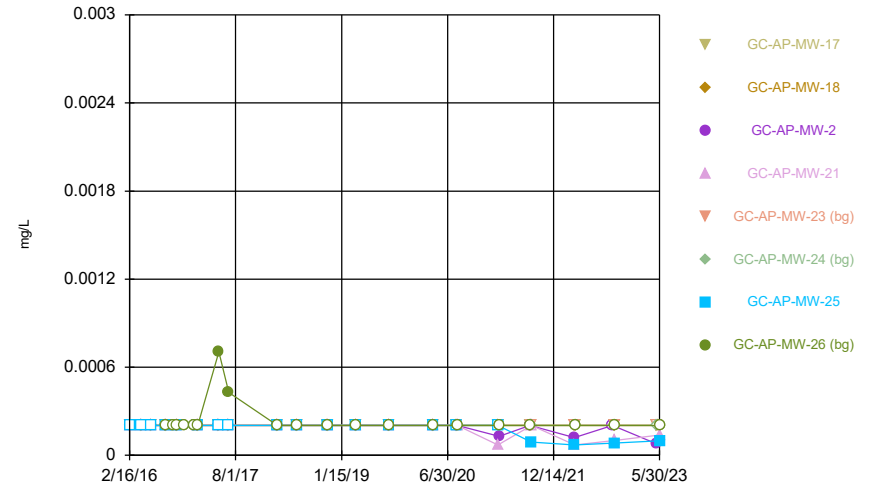
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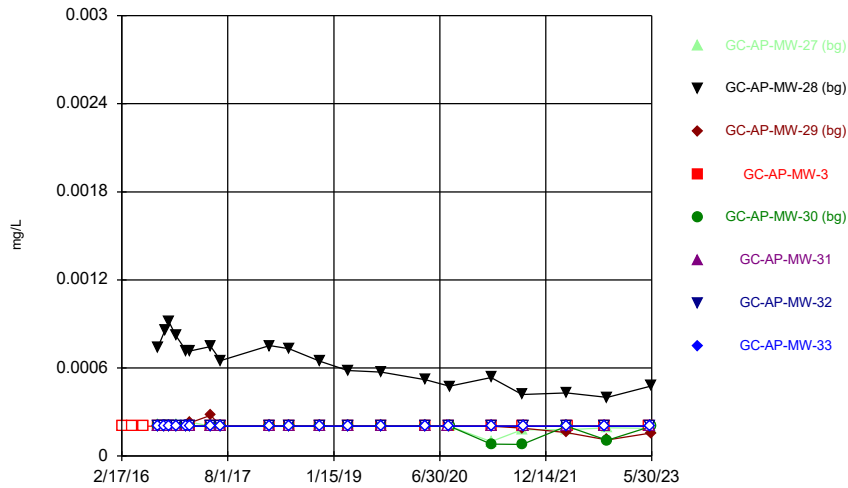
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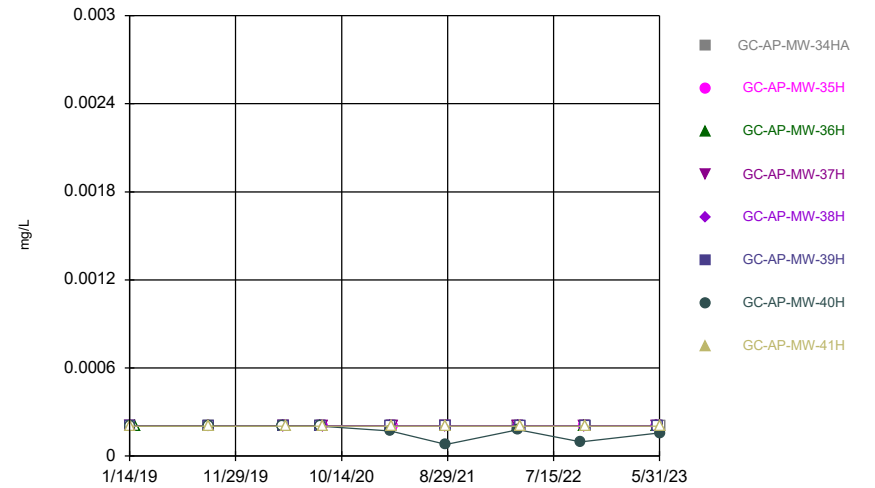
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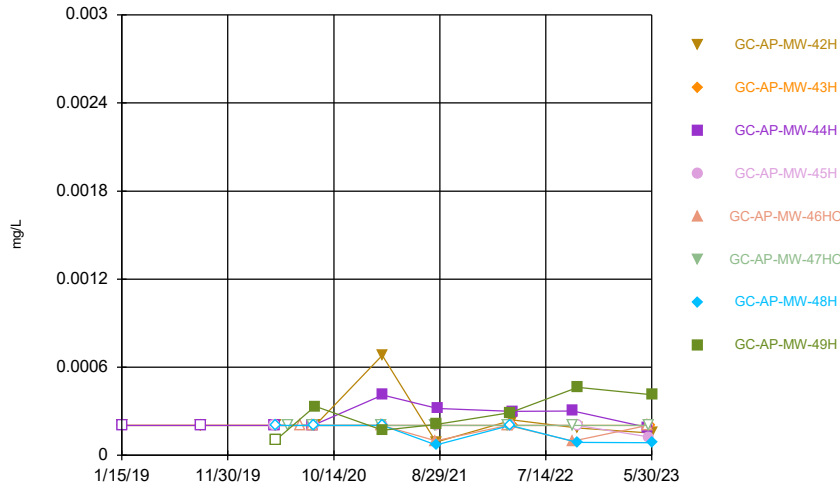
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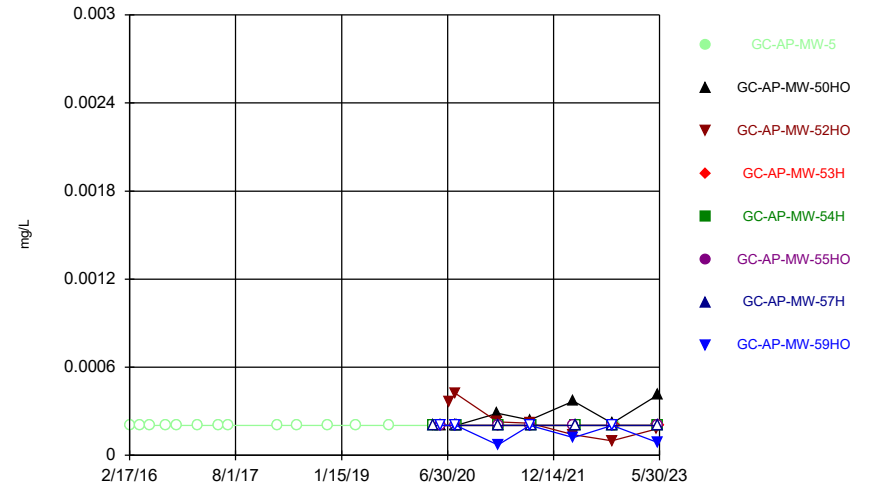
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Time Series



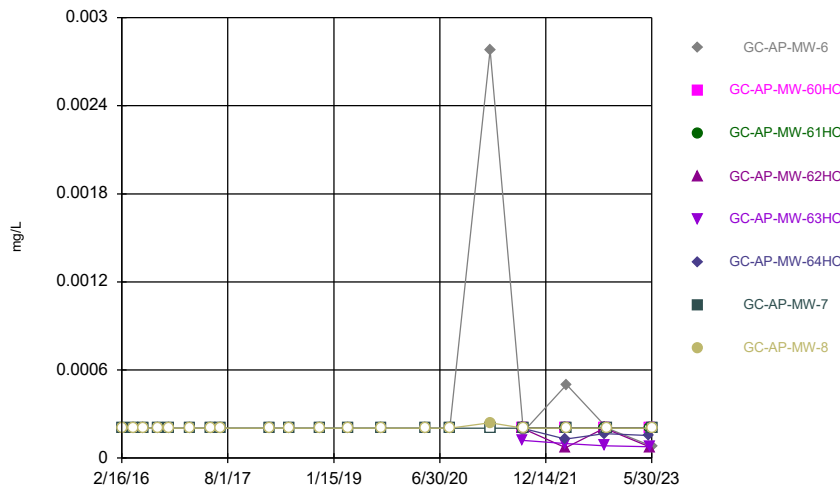
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 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



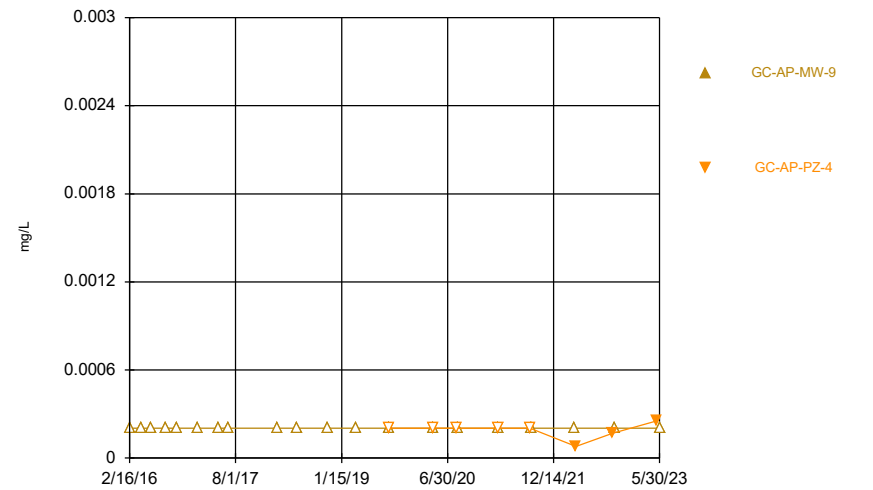
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 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



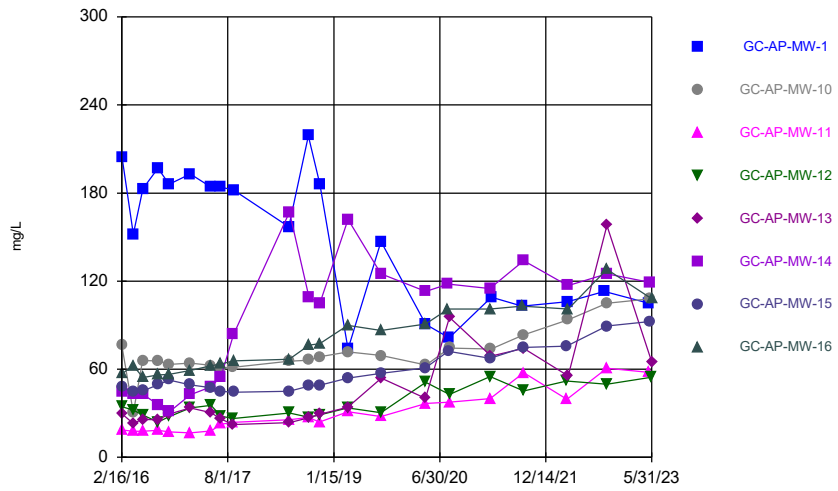
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 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



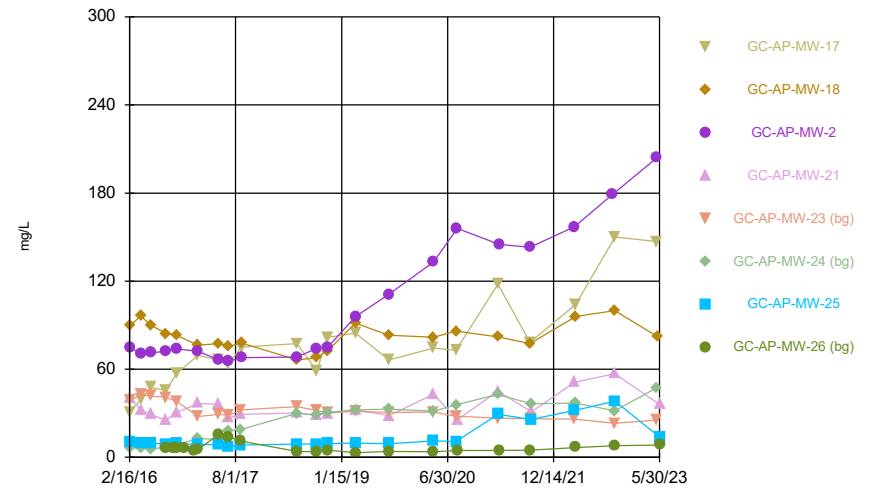
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### Time Series



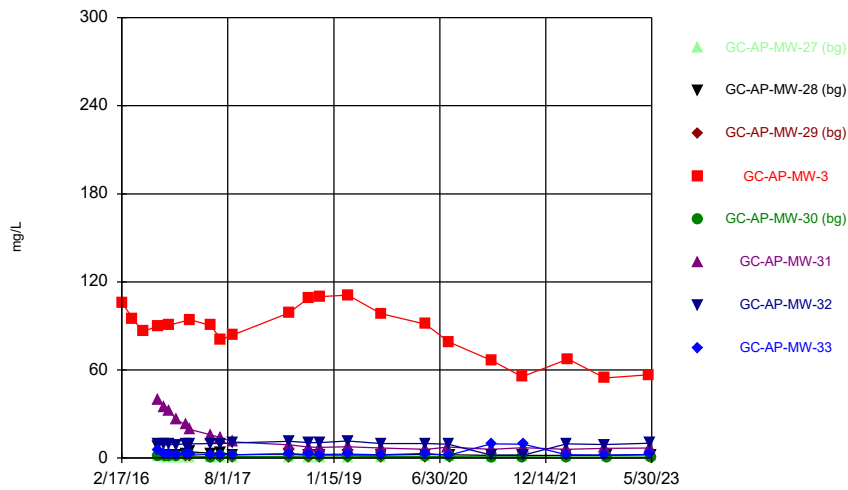
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### Time Series



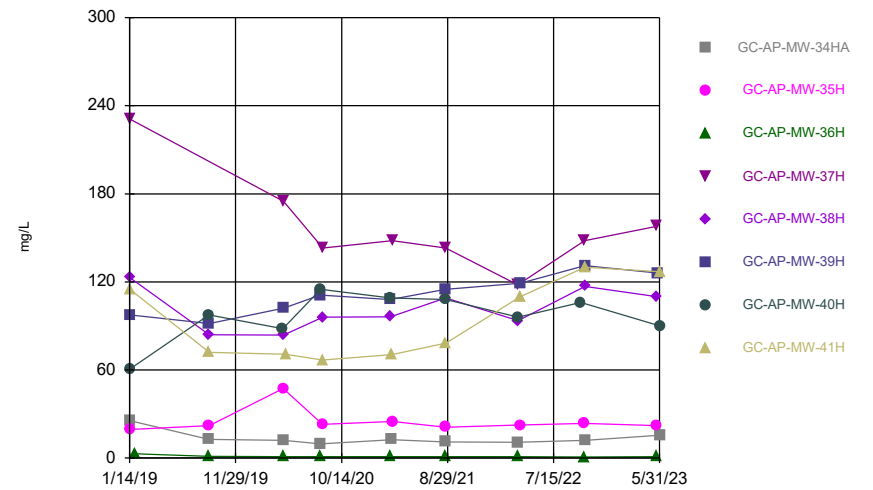
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 Plant Greene County Client: Southern Company Data: Greene County AP

### Time Series



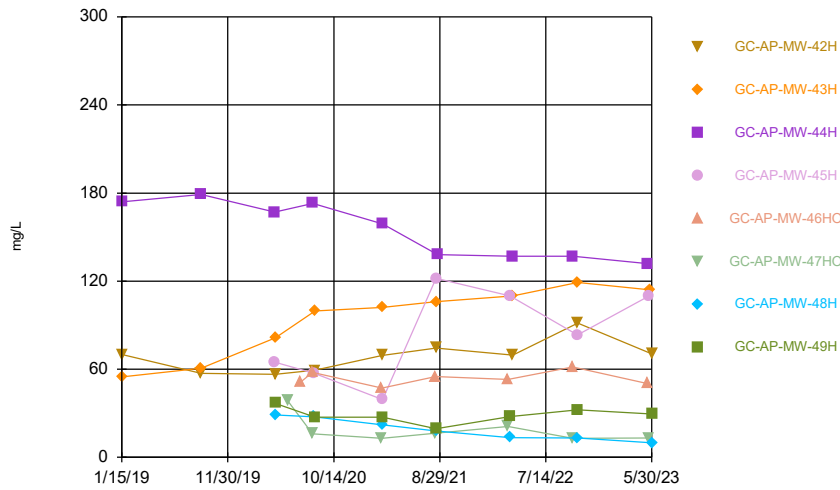
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### Time Series



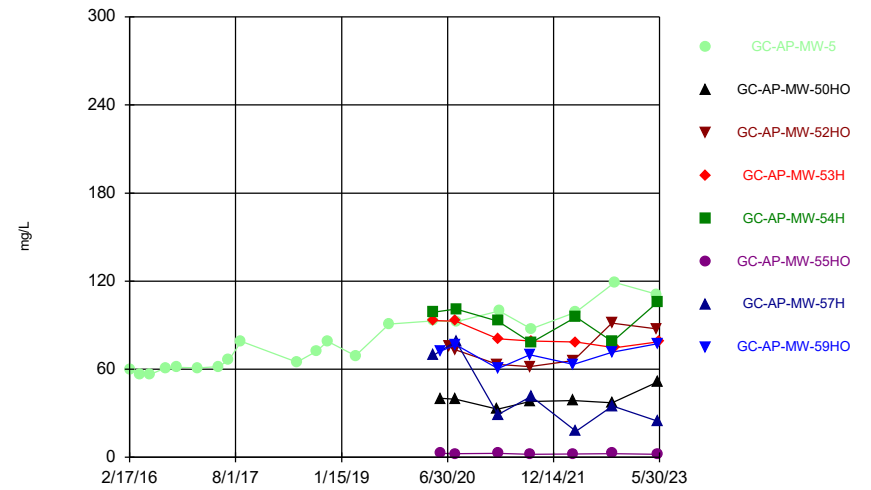
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Time Series



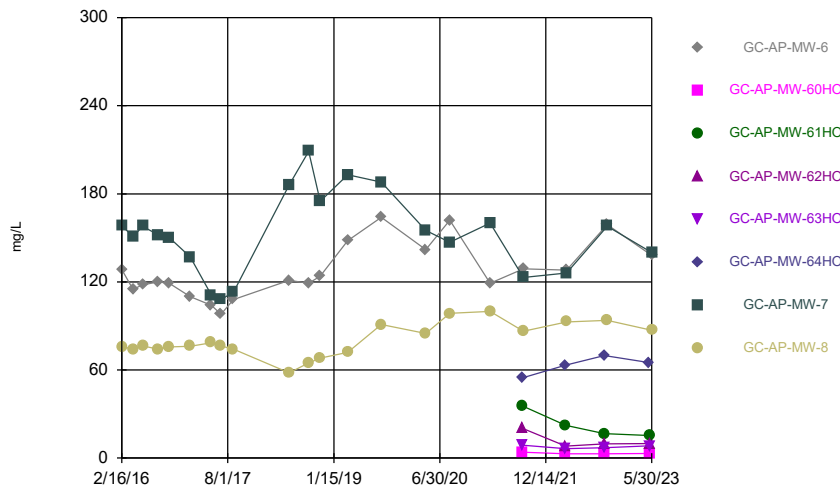
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Time Series



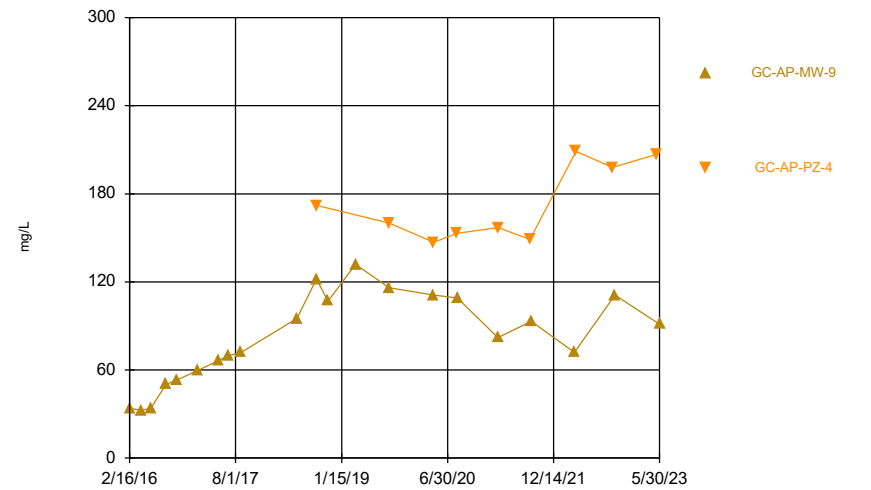
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Time Series



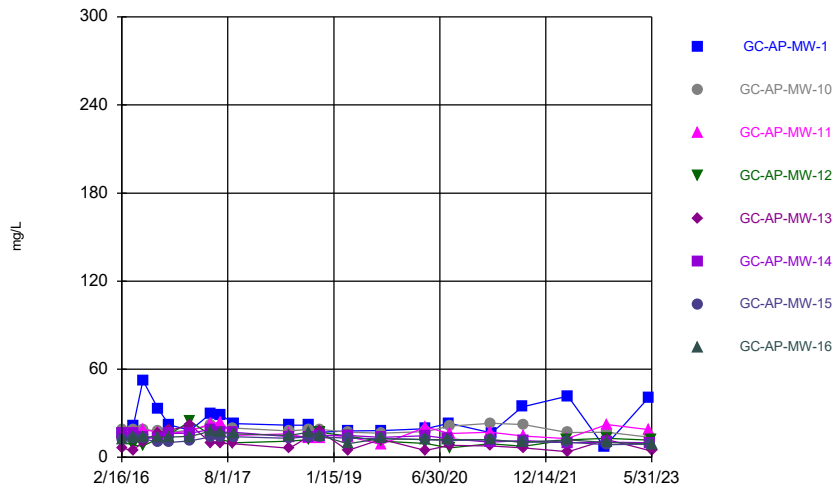
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Time Series



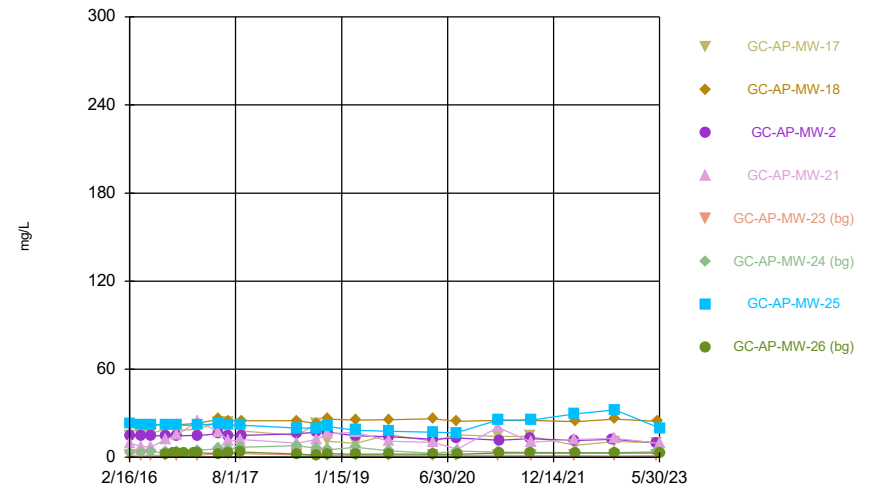
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### Time Series



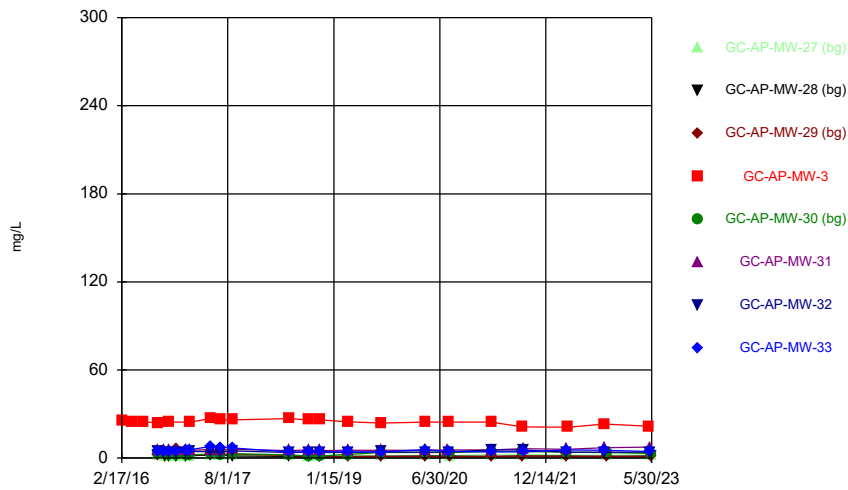
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### Time Series



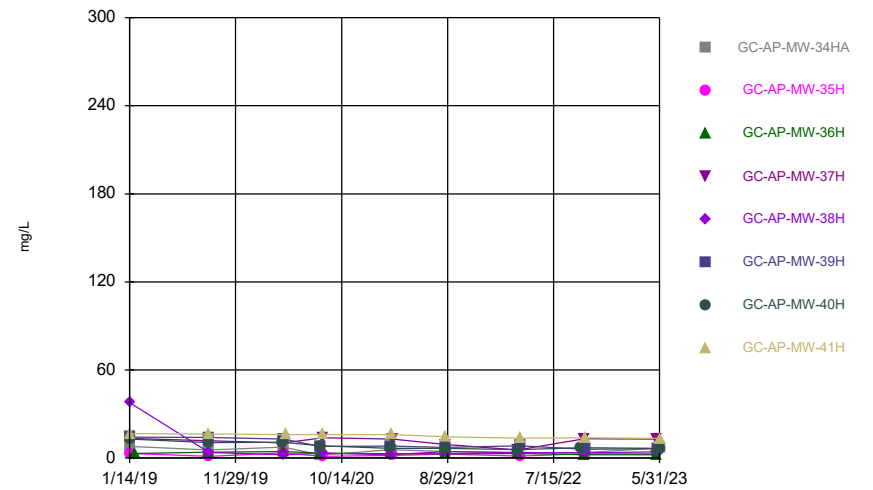
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### Time Series



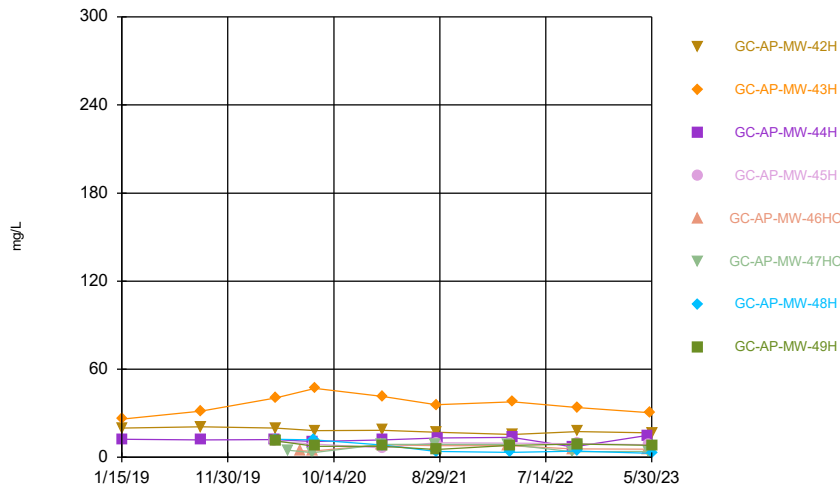
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### Time Series



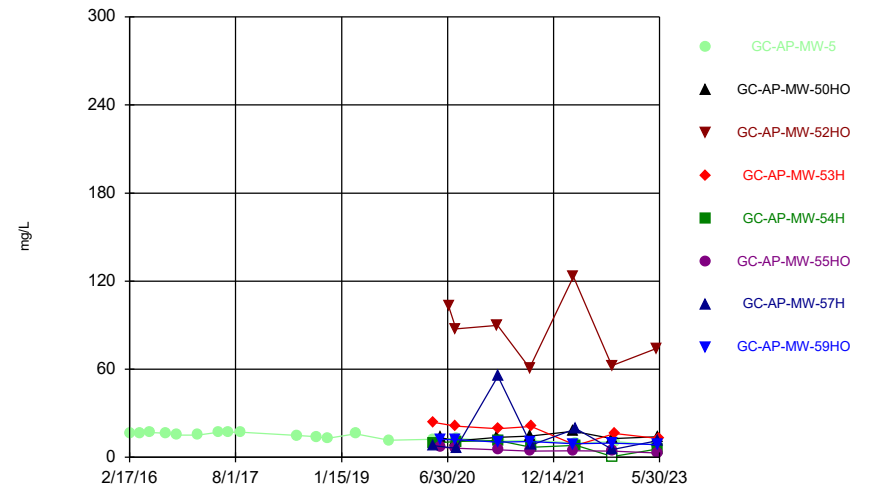
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Time Series



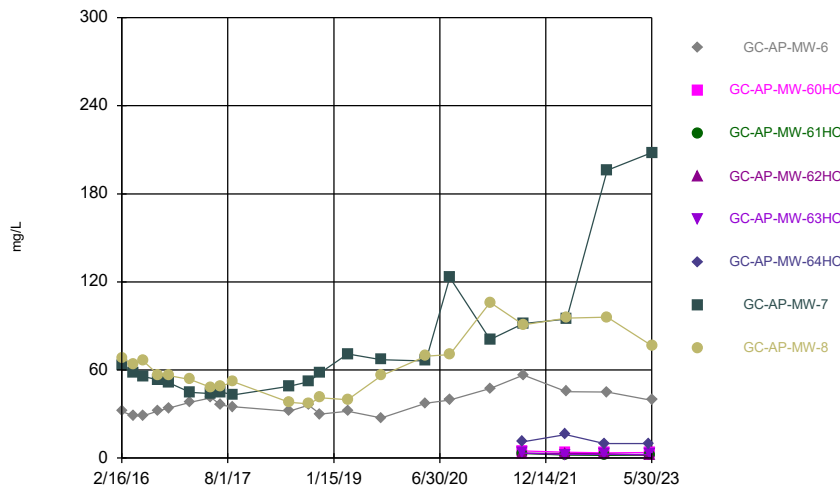
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Time Series



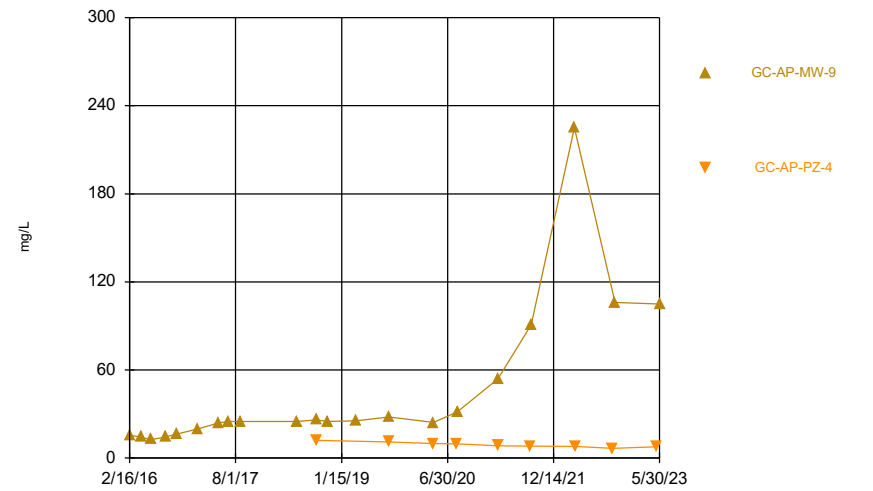
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Time Series



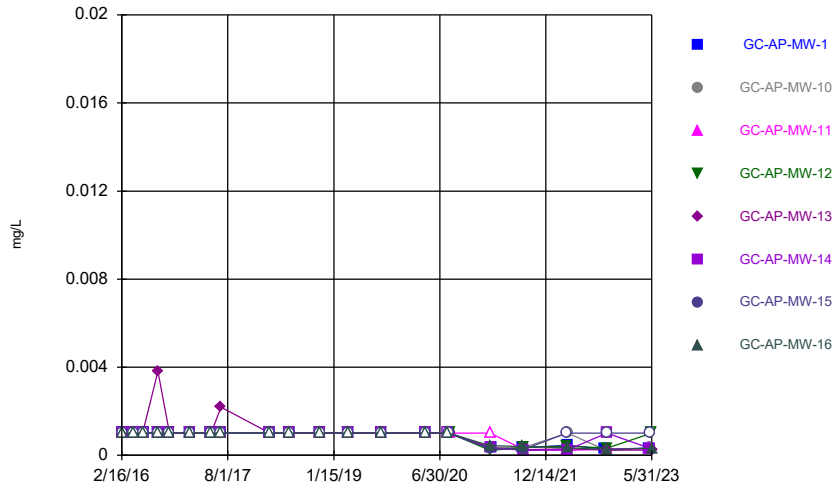
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Time Series



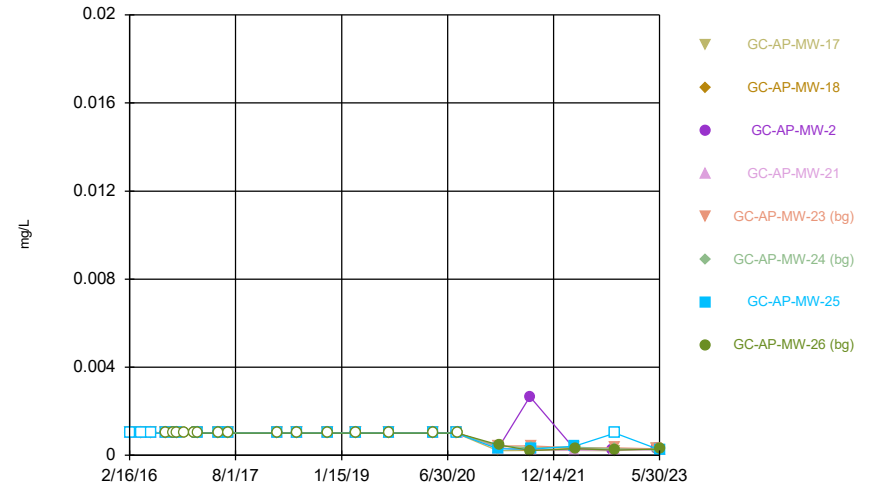
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Time Series



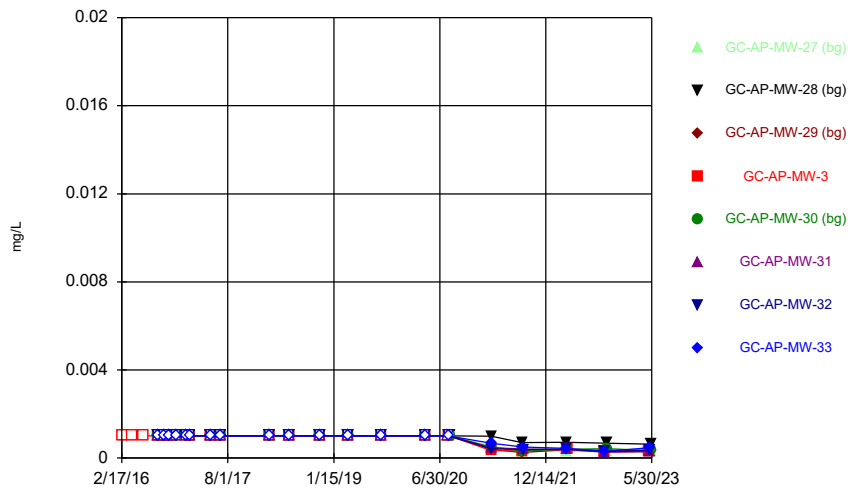
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Time Series



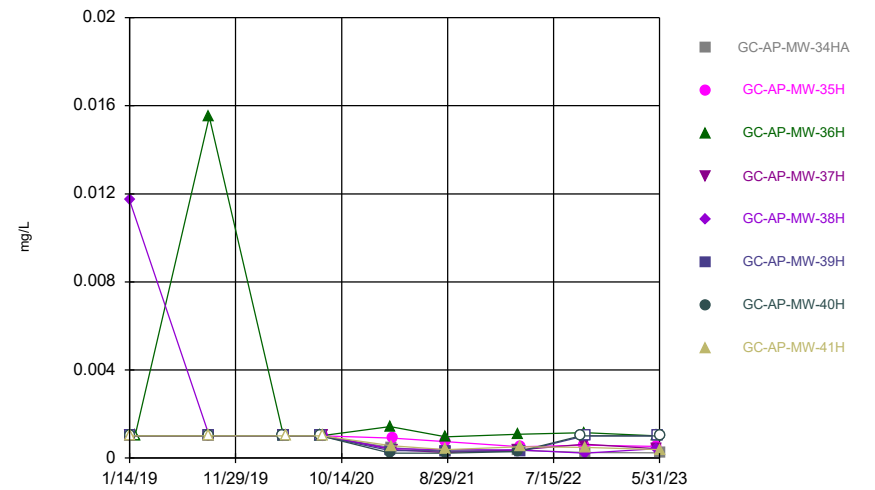
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Time Series



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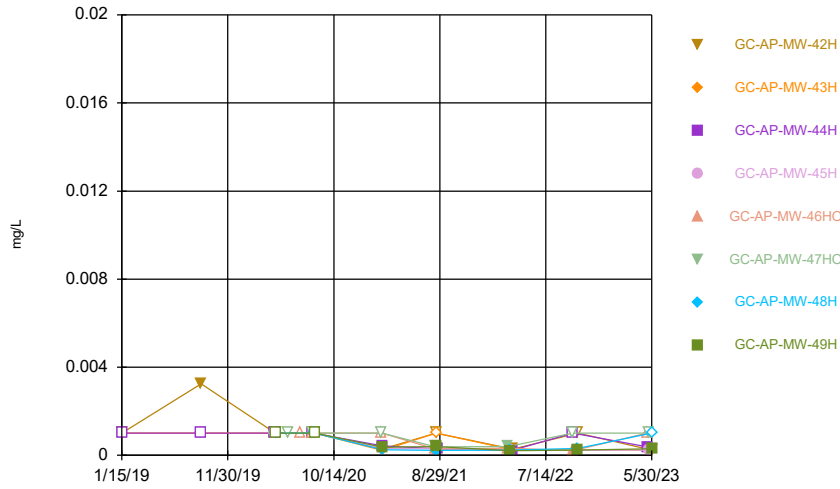
Time Series



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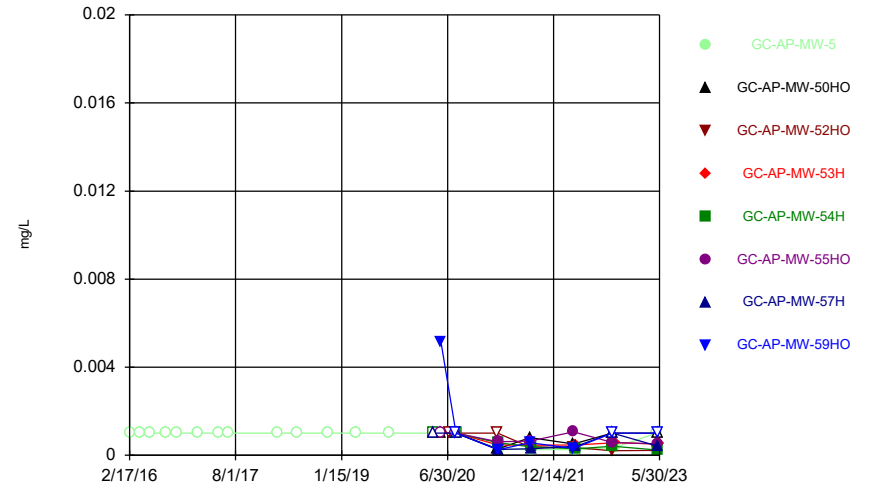


Time Series



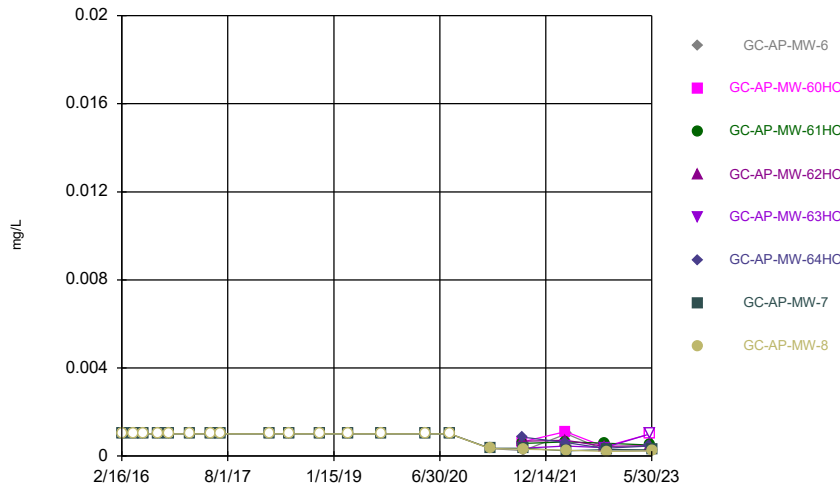
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Time Series



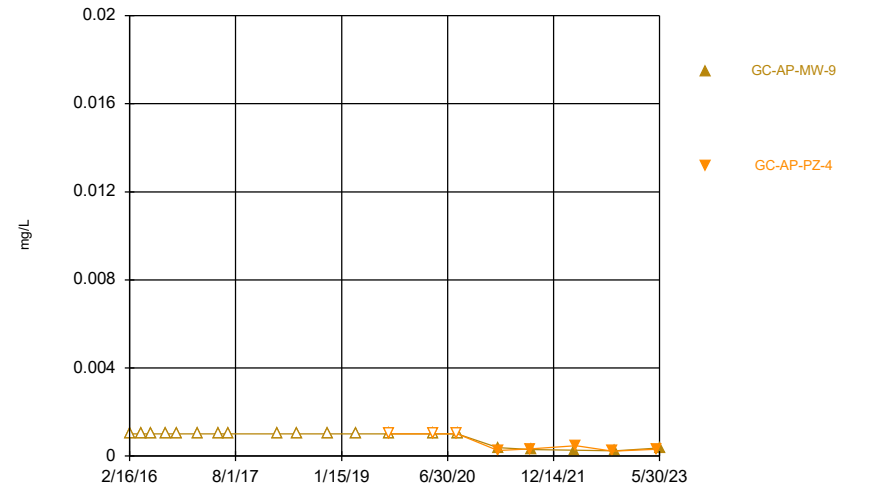
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Time Series



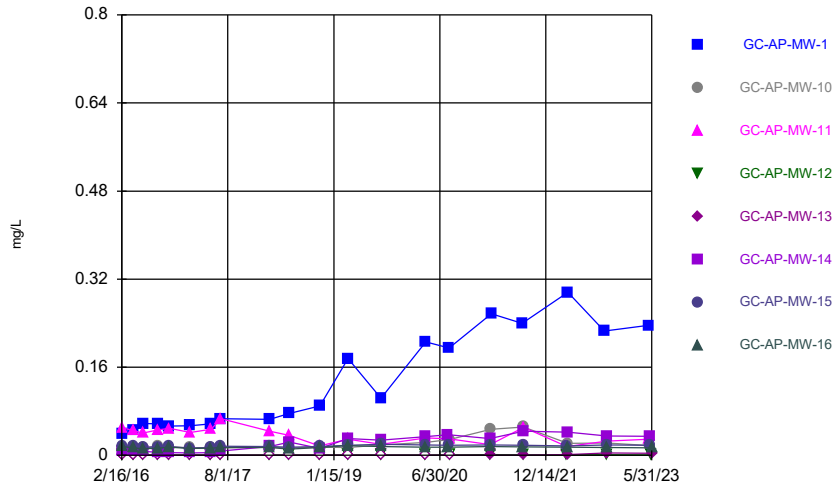
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Time Series



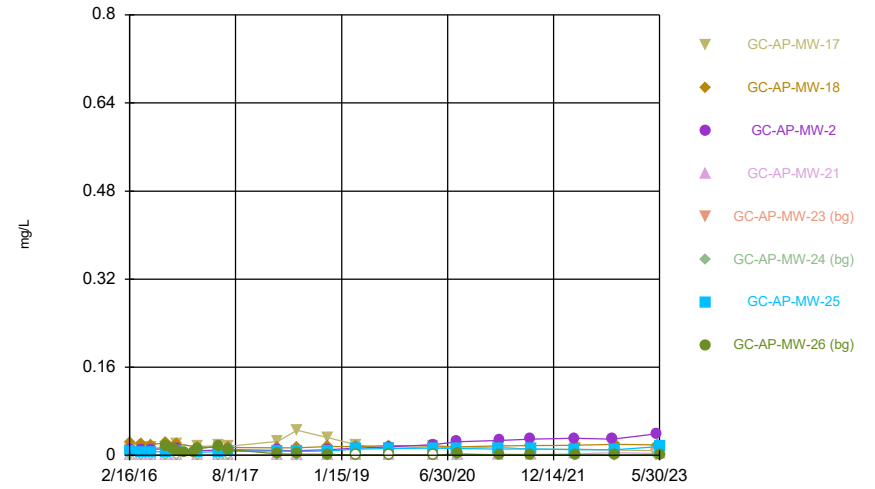
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Time Series



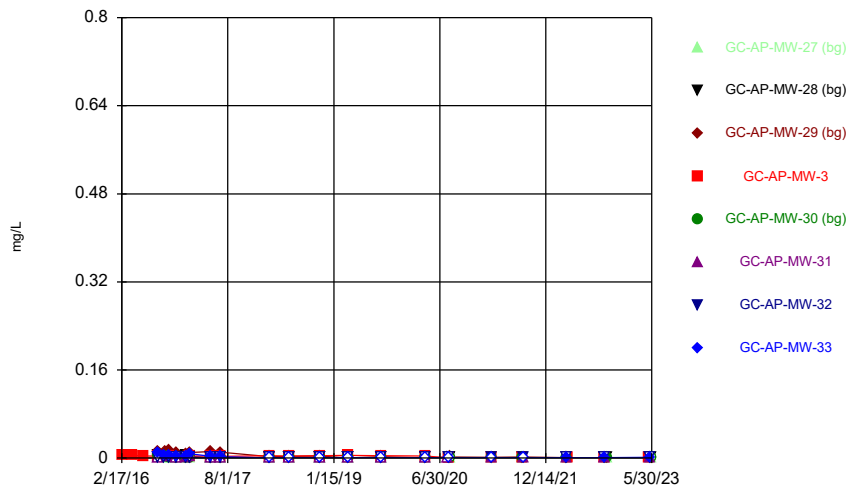
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Time Series



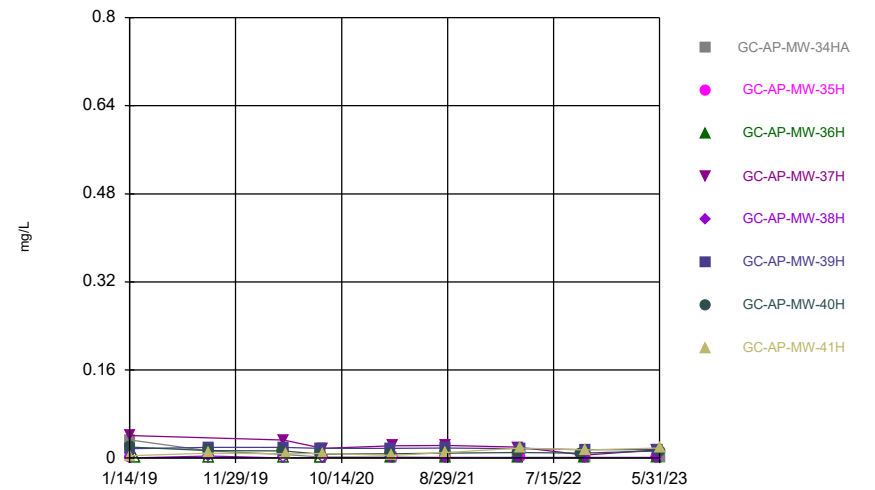
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Time Series



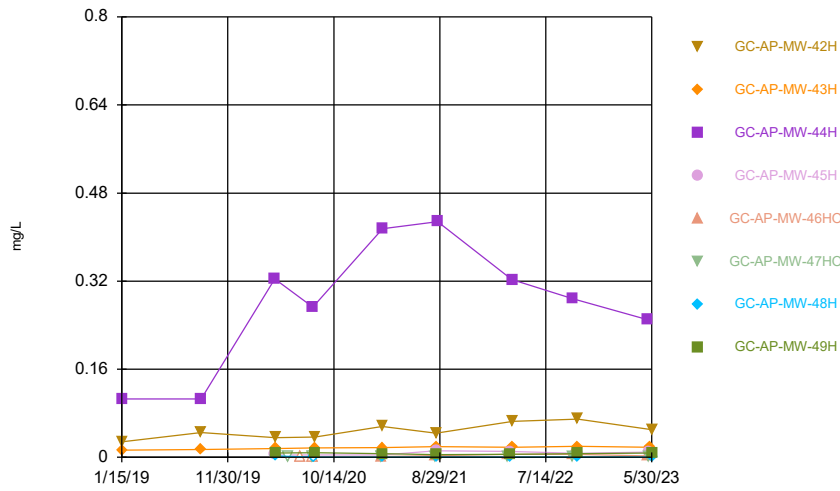
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Time Series



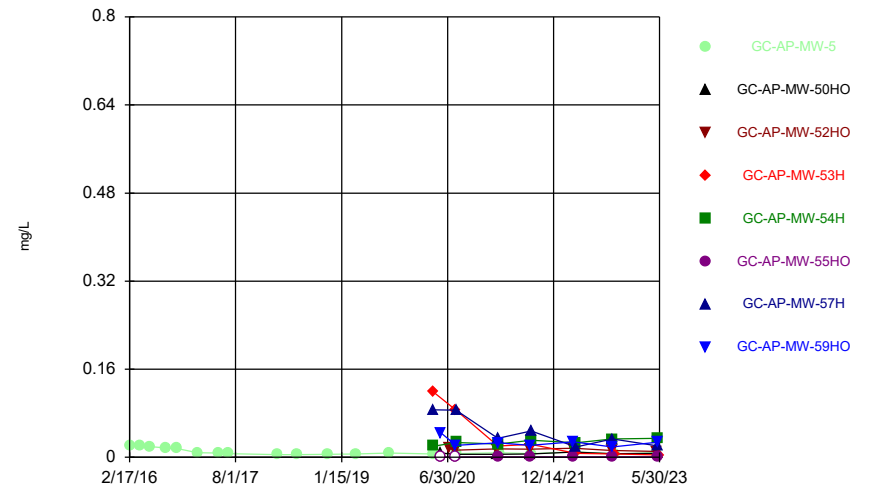
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Time Series



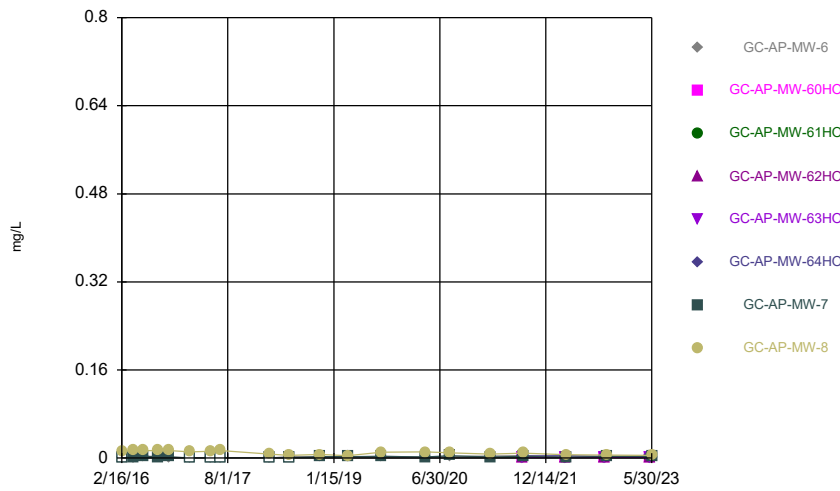
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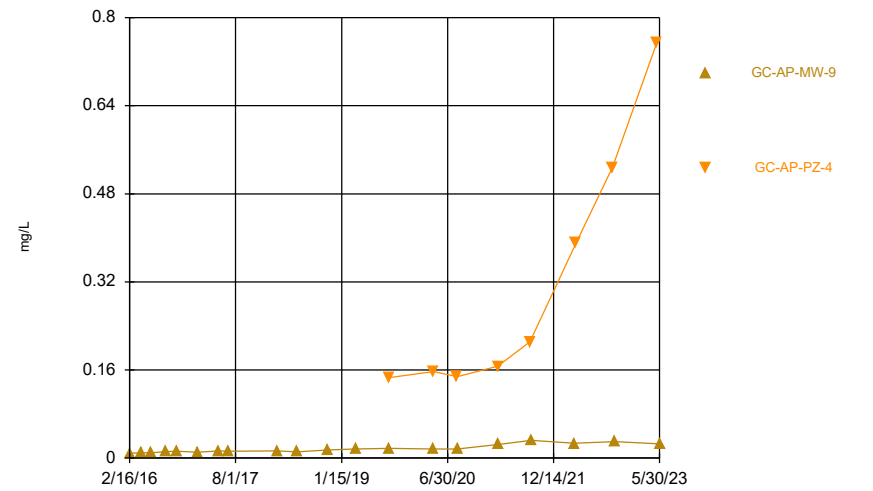
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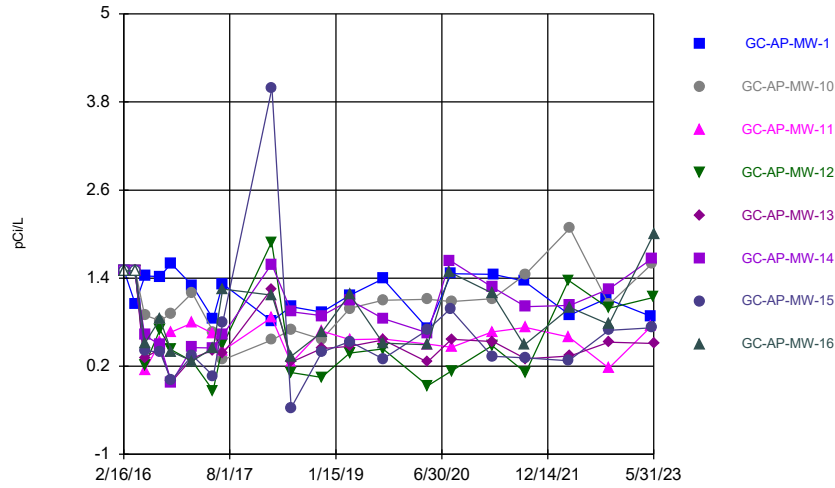
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Time Series



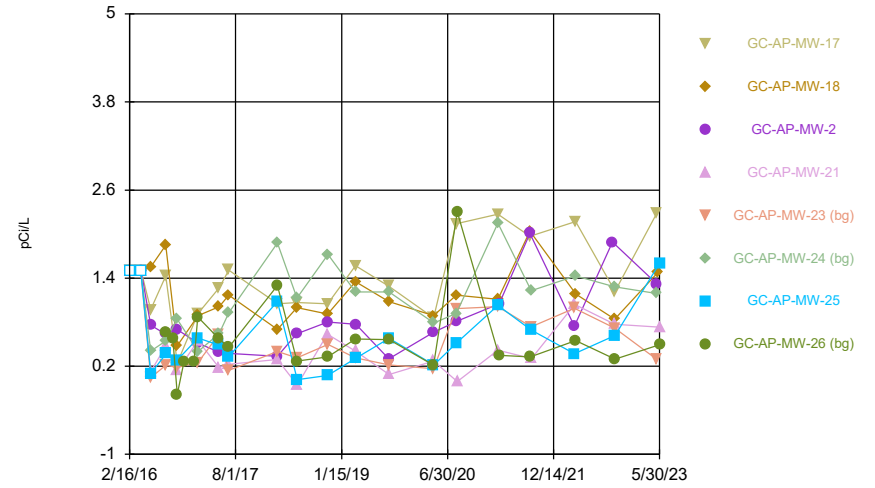
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### Time Series



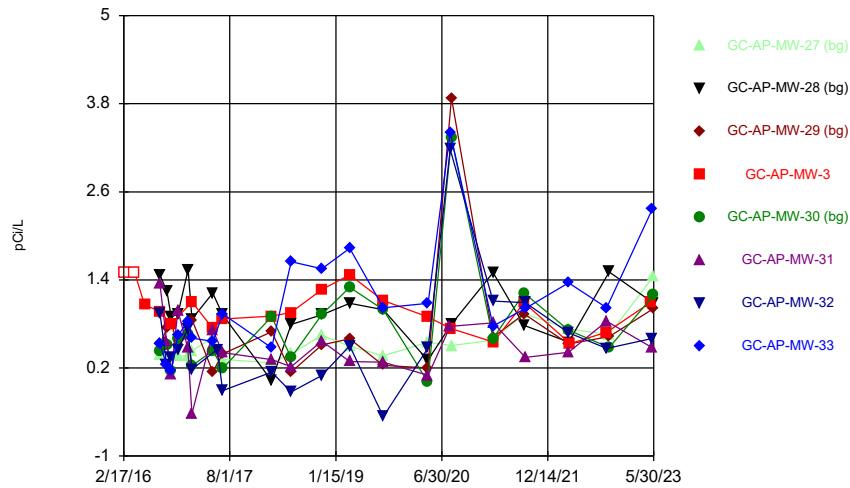
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### Time Series



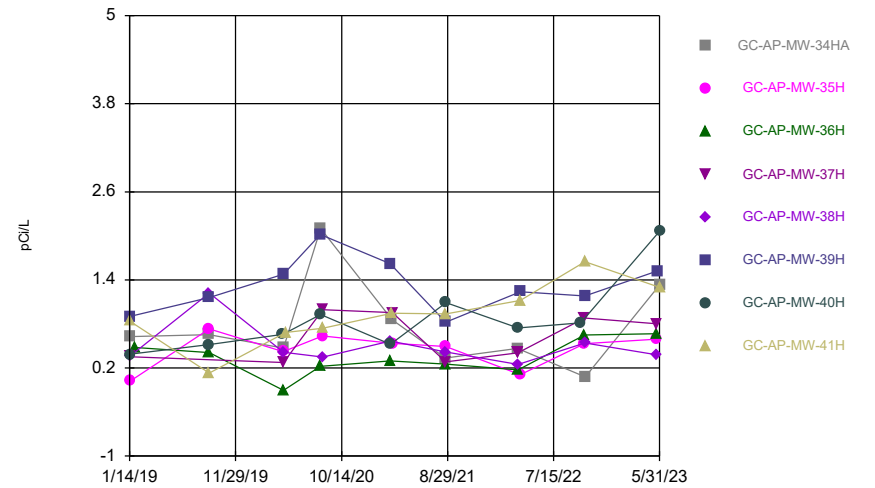
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### Time Series



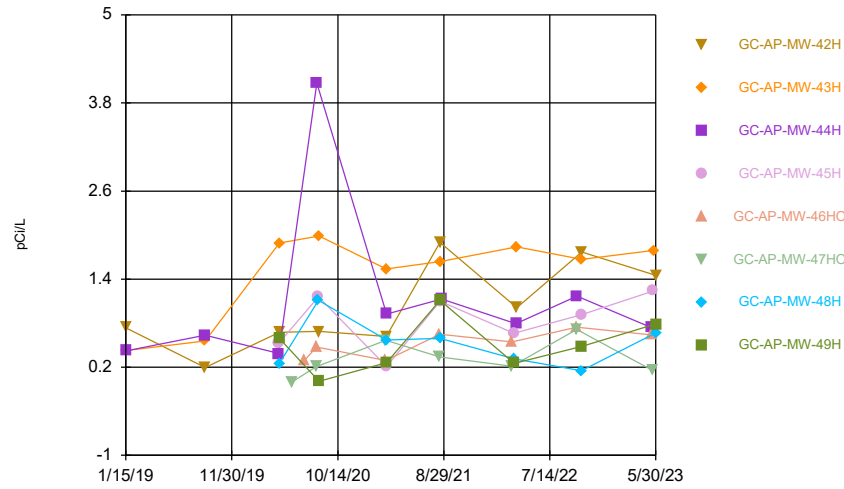
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### Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 7/19/2023 1:42 PM View: Descriptive  
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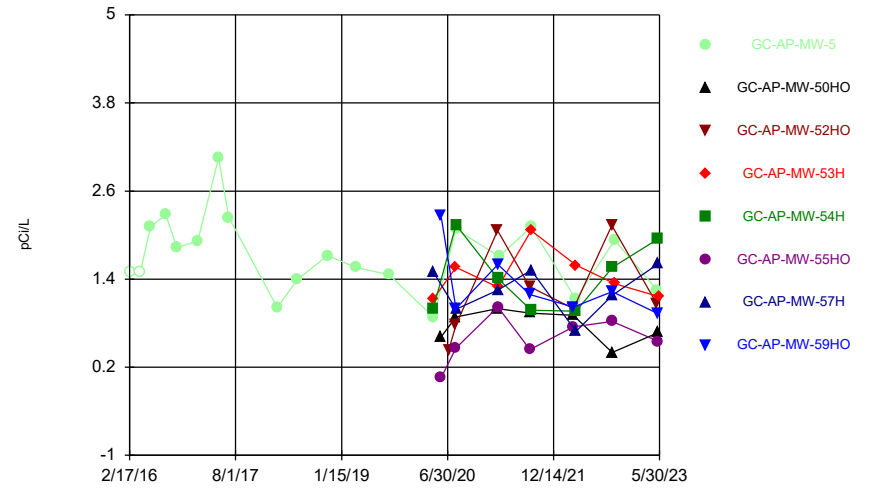
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Hollow symbols indicate censored values.

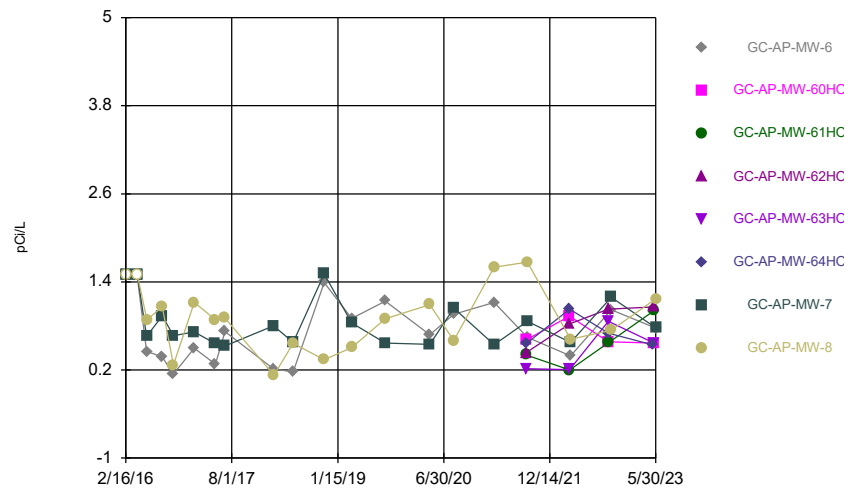
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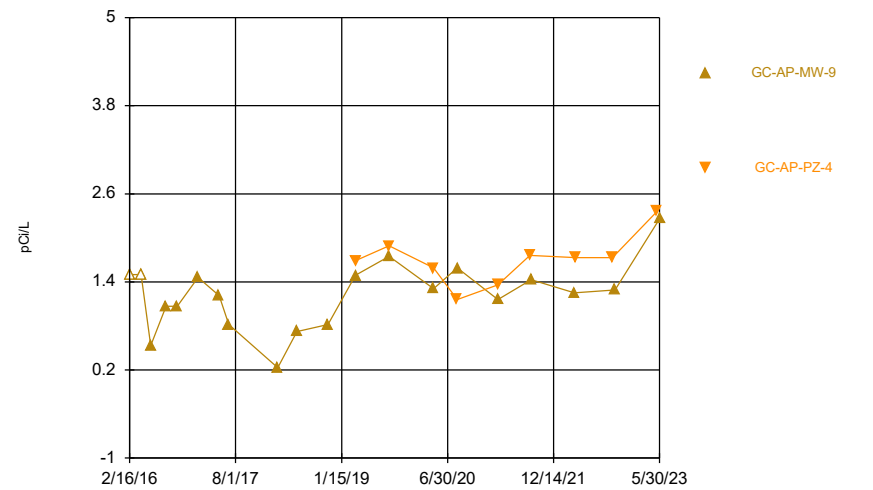
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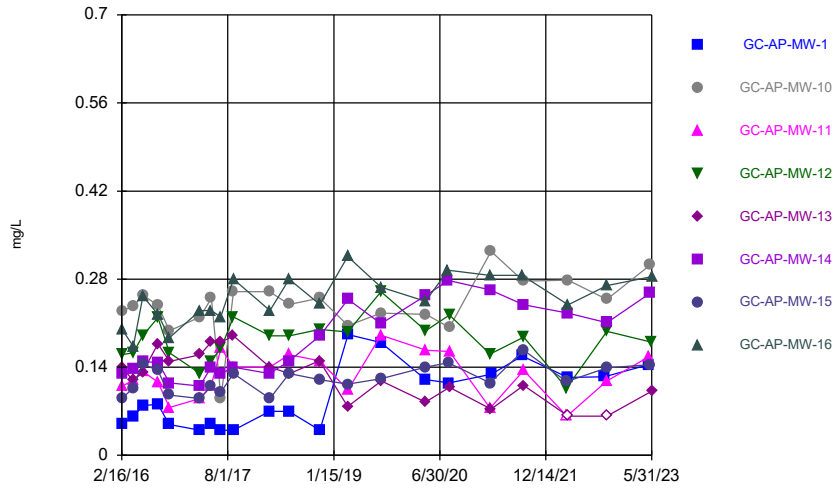
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### Time Series



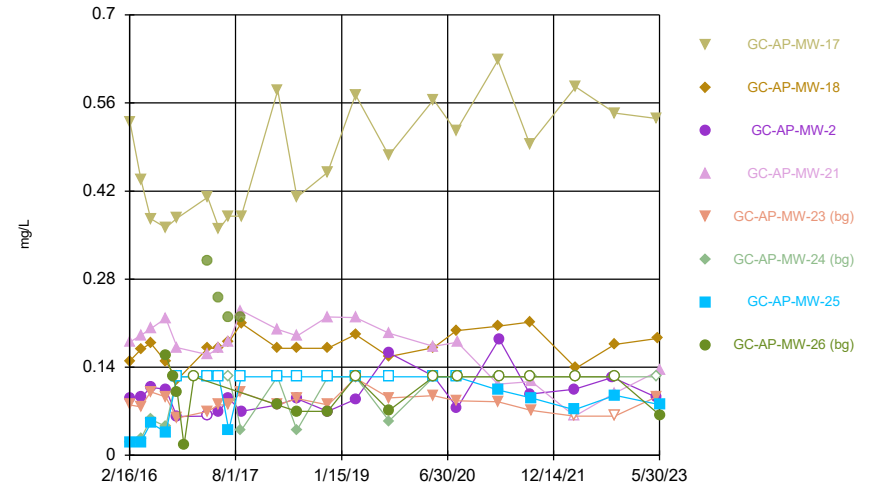
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### Time Series



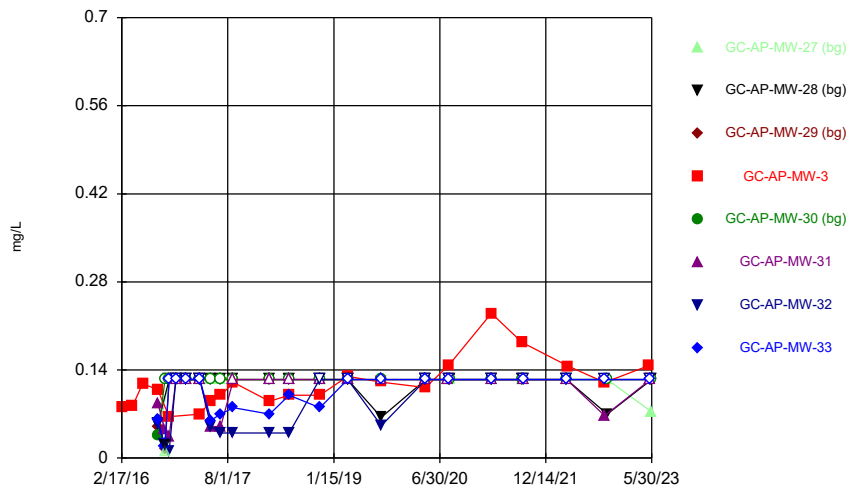
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### Time Series



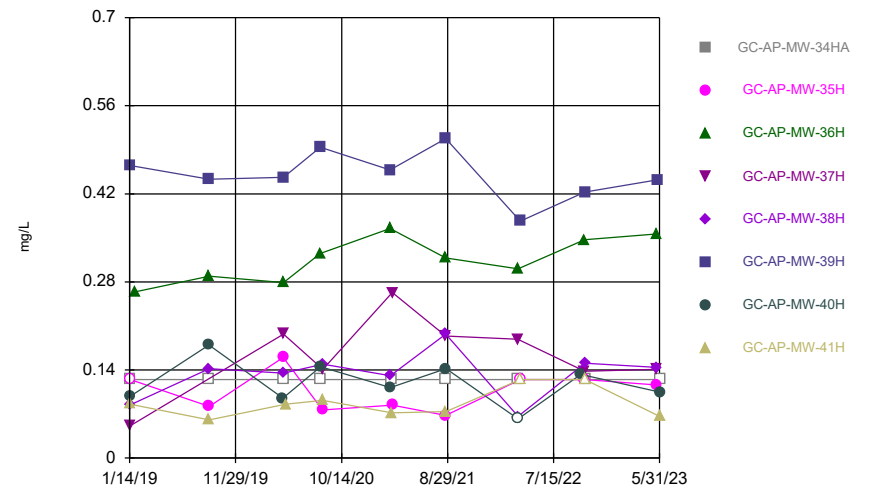
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### Time Series



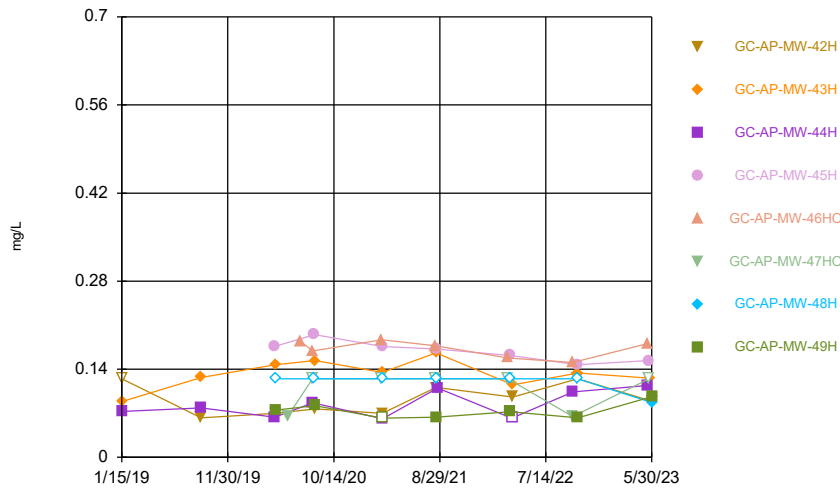
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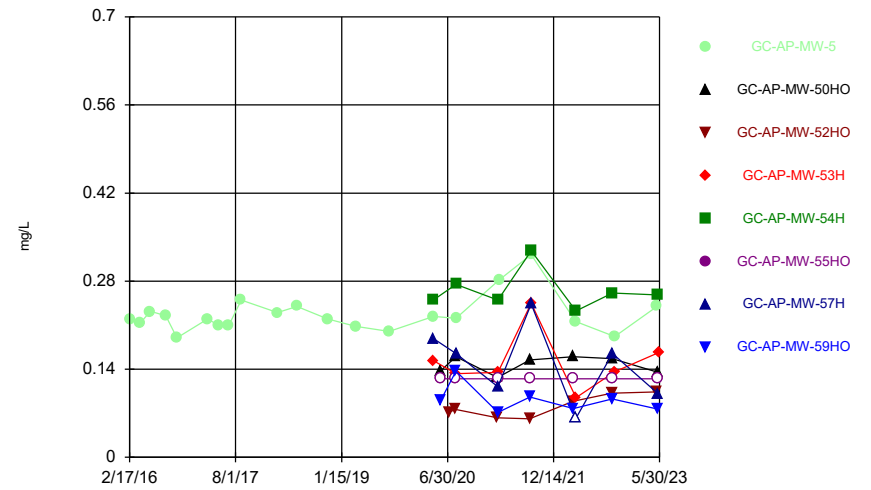
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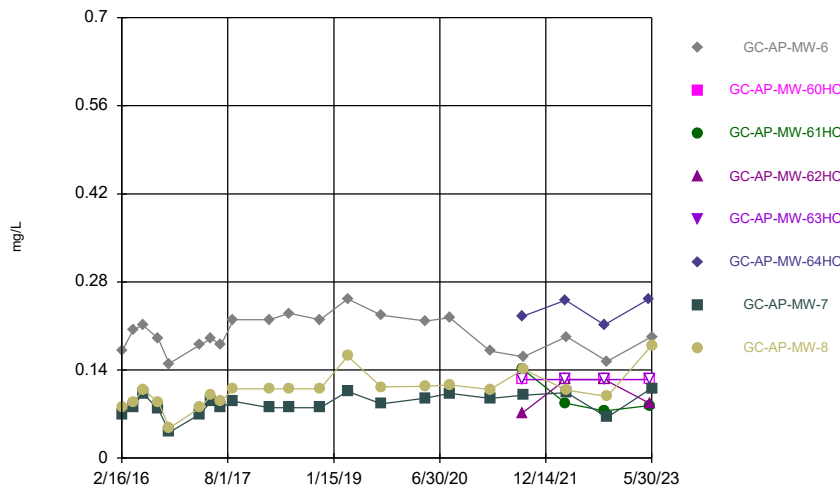
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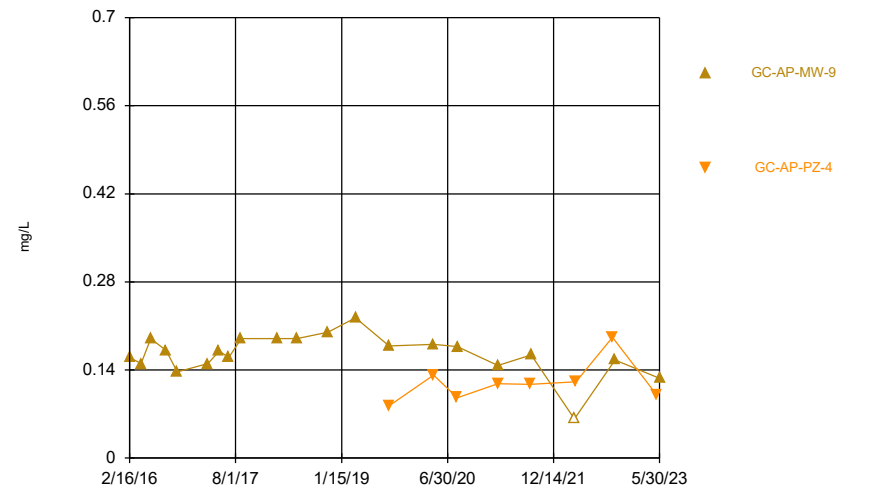
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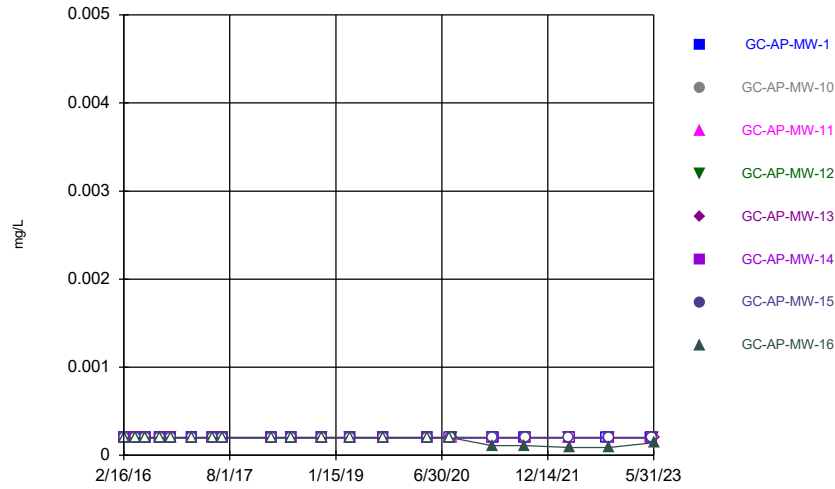
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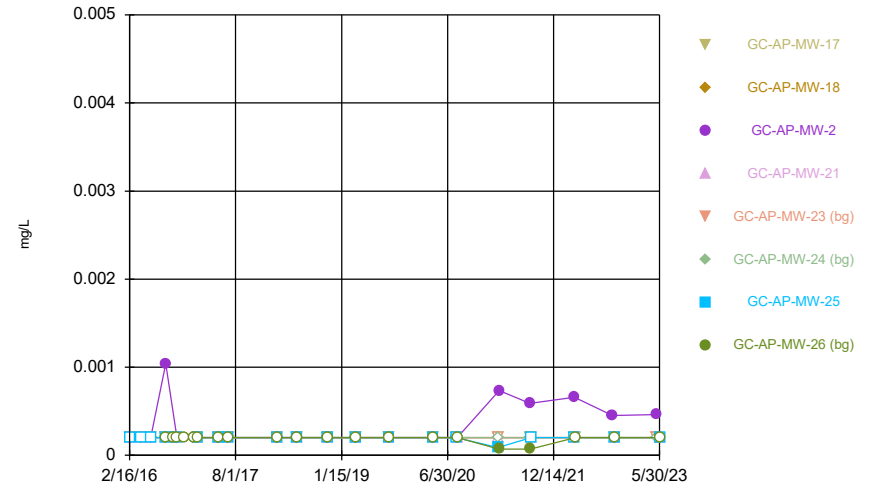
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Time Series



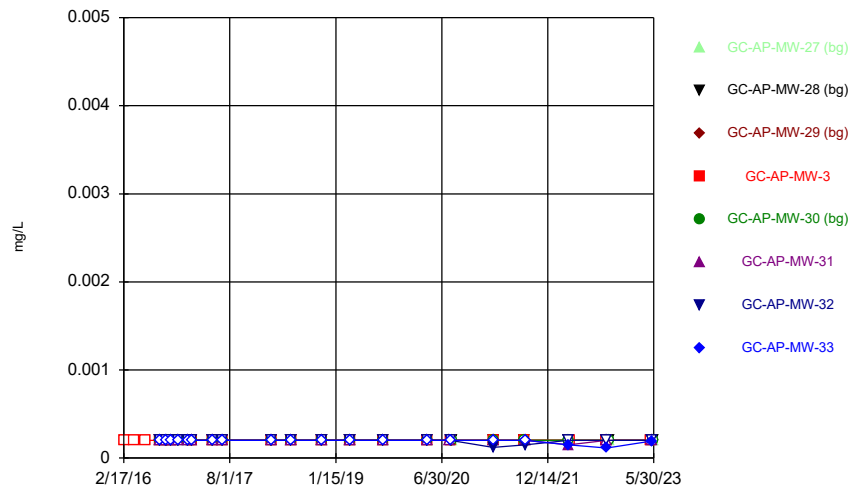
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Time Series



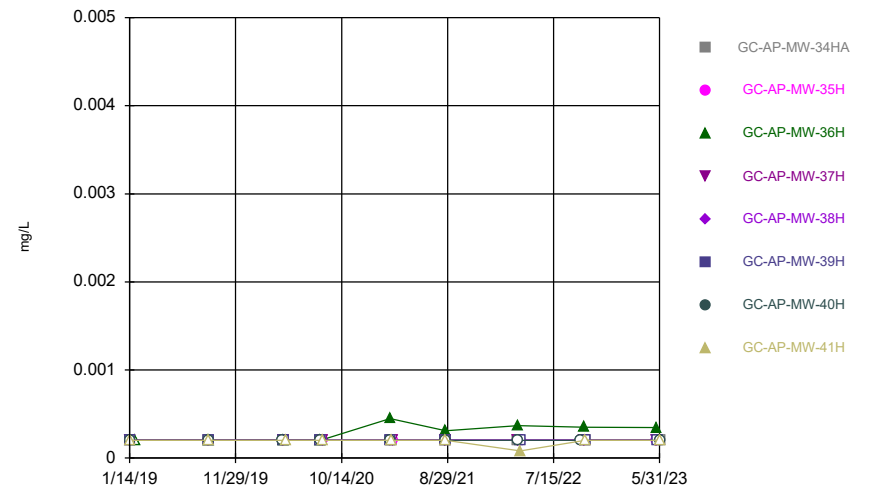
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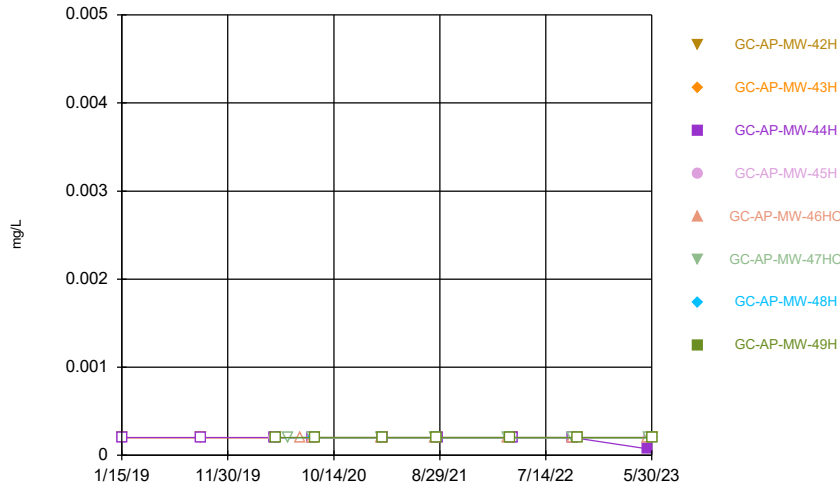
Time Series



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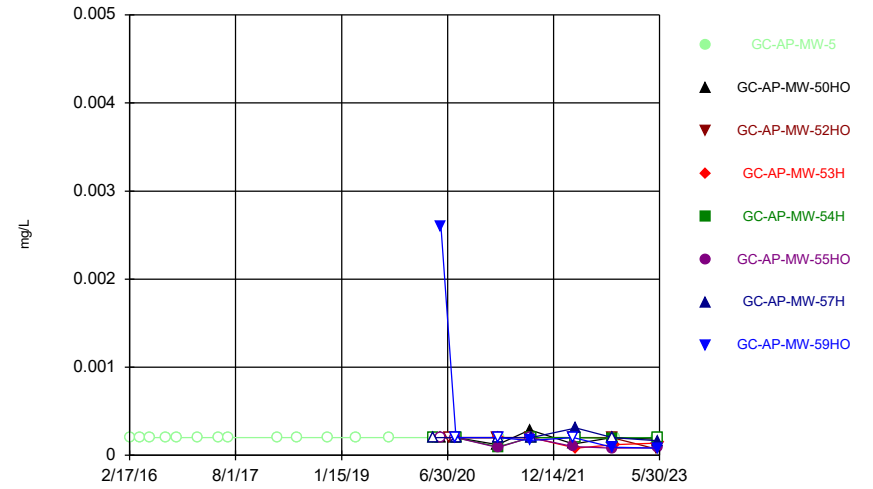


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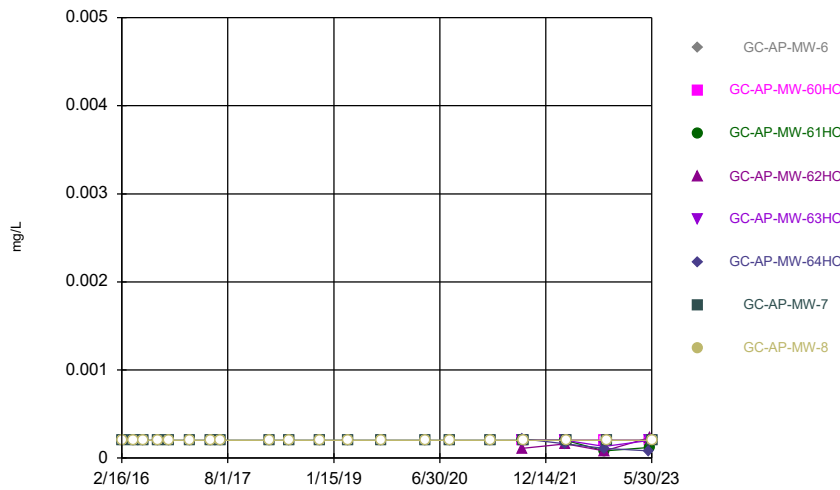
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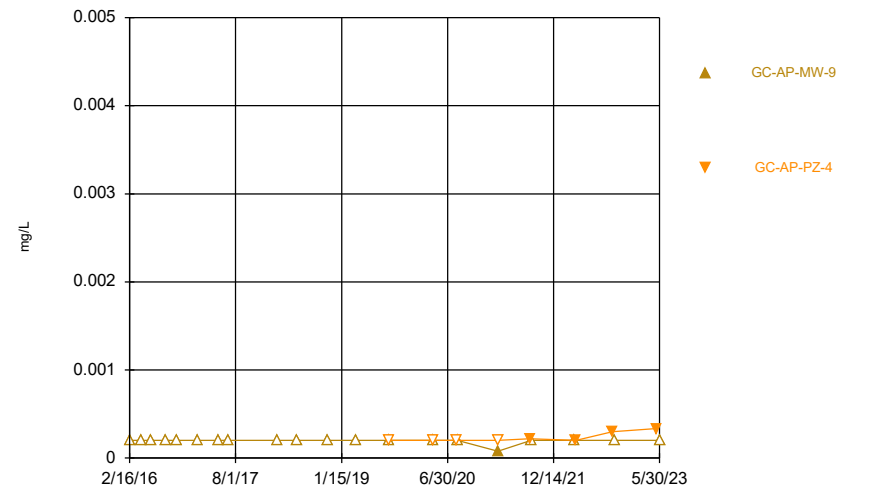
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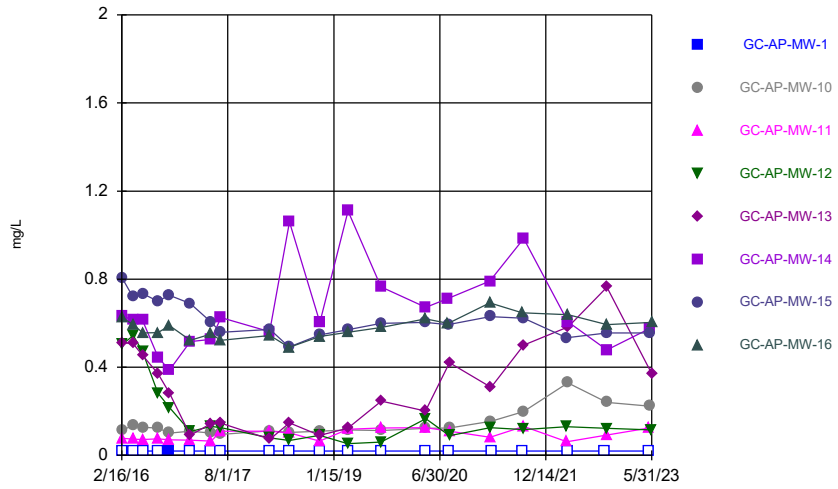
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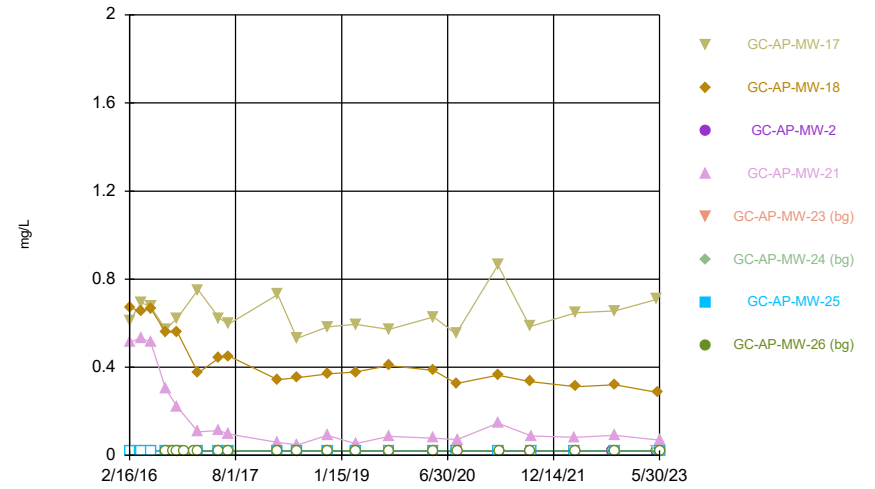
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Time Series



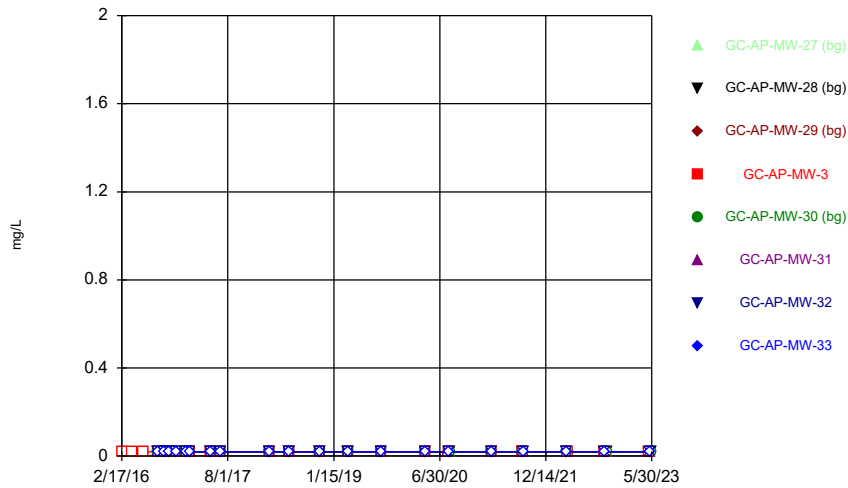
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Time Series



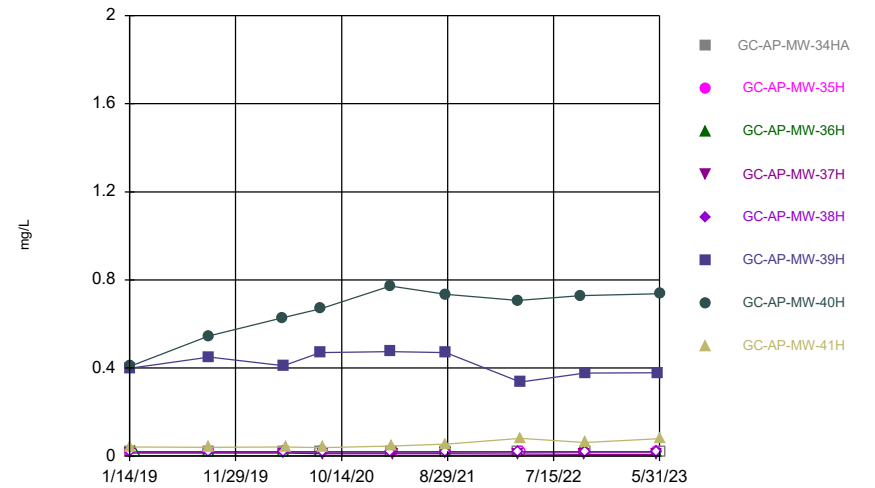
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Time Series



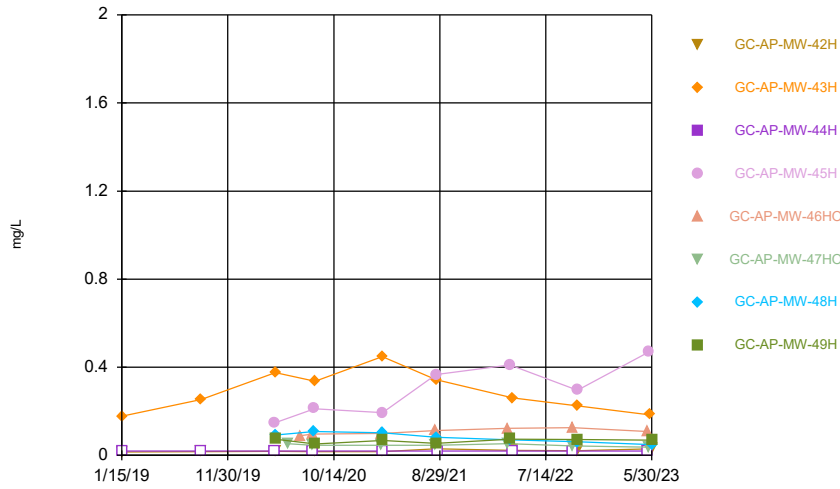
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Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



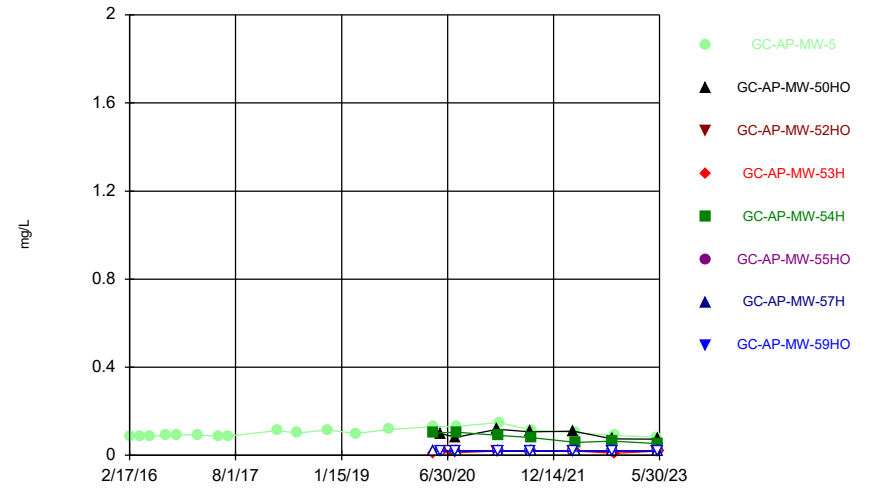
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Plant Greene County Client: Southern Company Data: Greene County AP

### Time Series



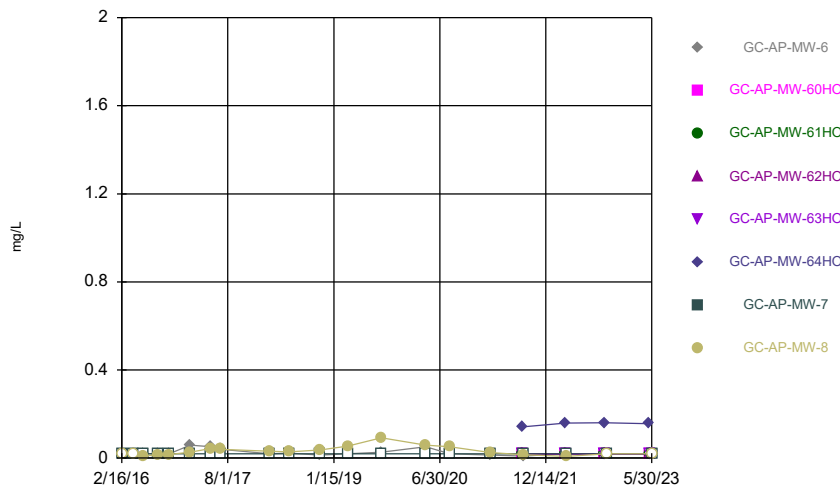
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Plant Greene County Client: Southern Company Data: Greene County AP

### Time Series



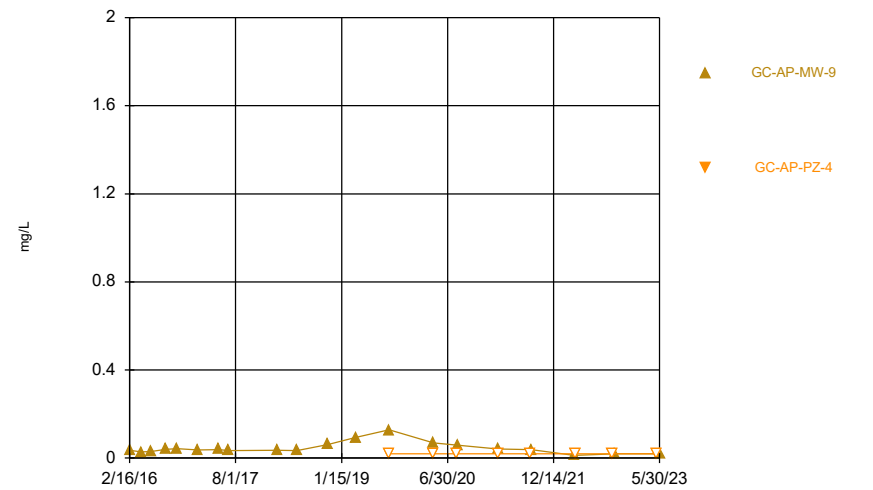
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Plant Greene County Client: Southern Company Data: Greene County AP

### Time Series



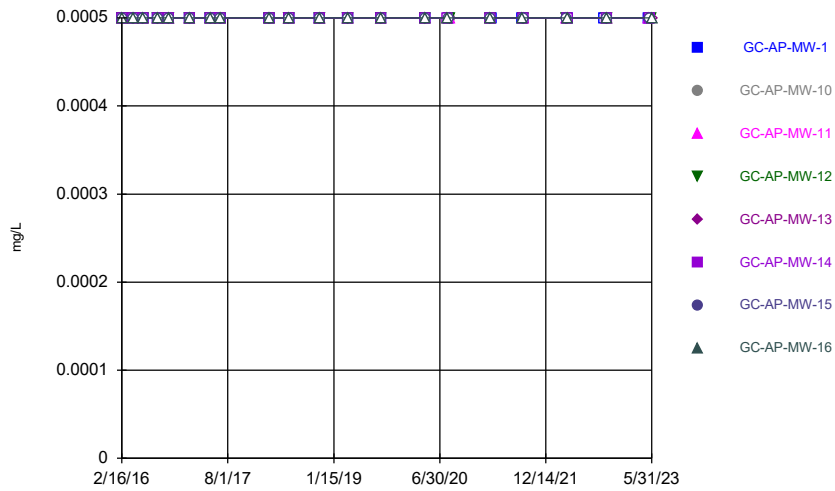
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Plant Greene County Client: Southern Company Data: Greene County AP

### Time Series



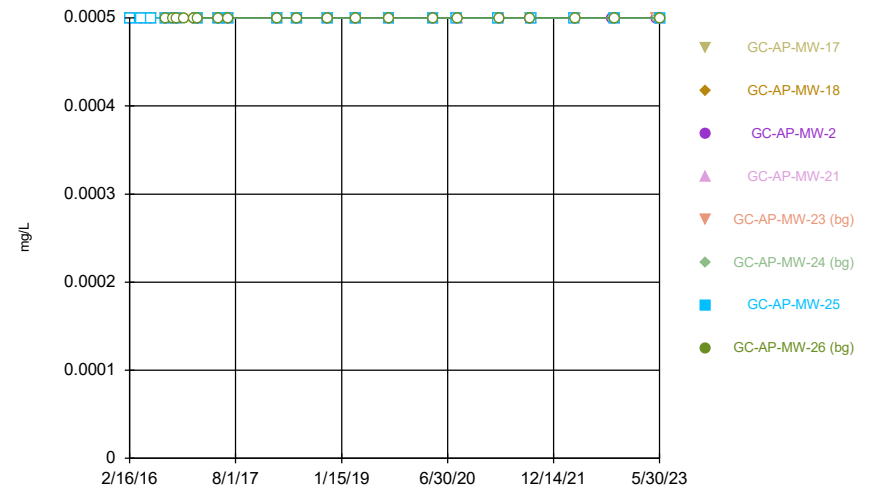
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Time Series



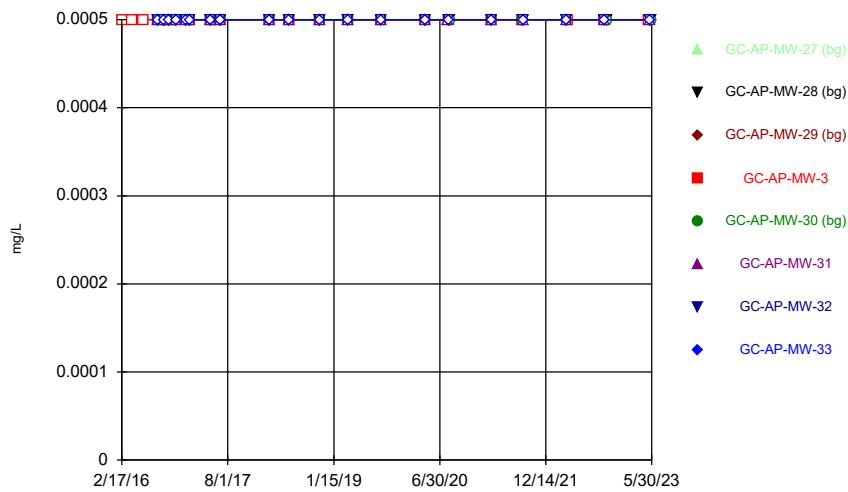
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Time Series



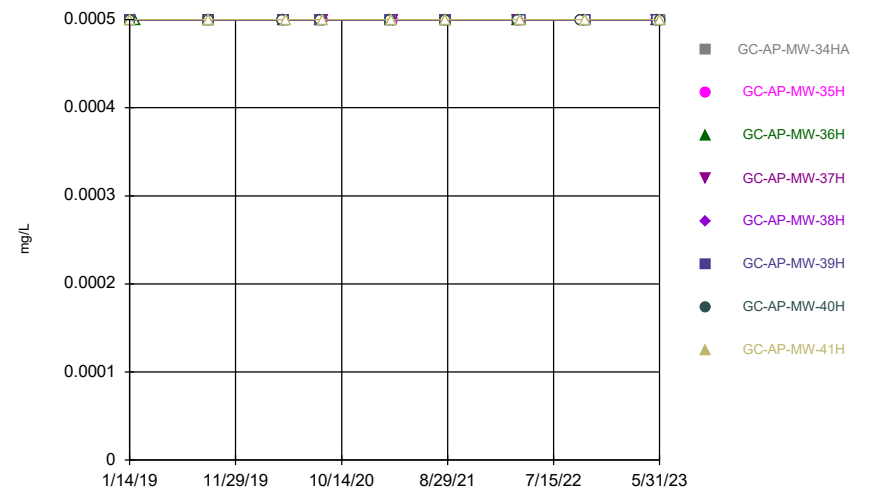
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Time Series



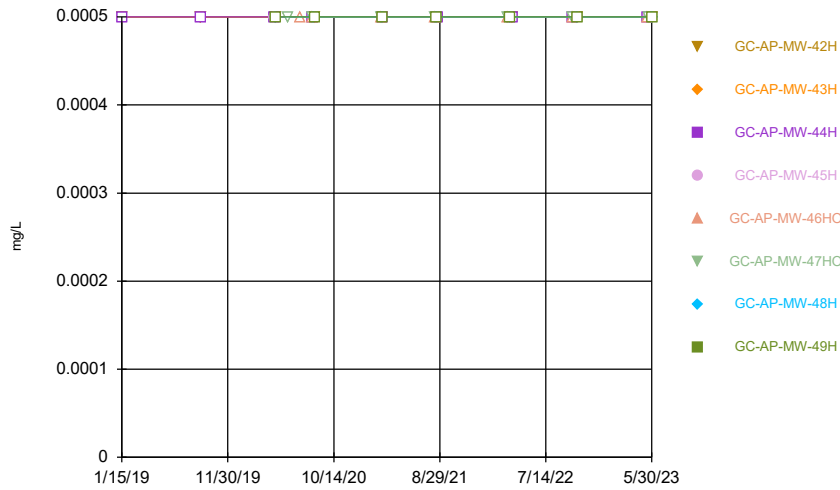
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Time Series



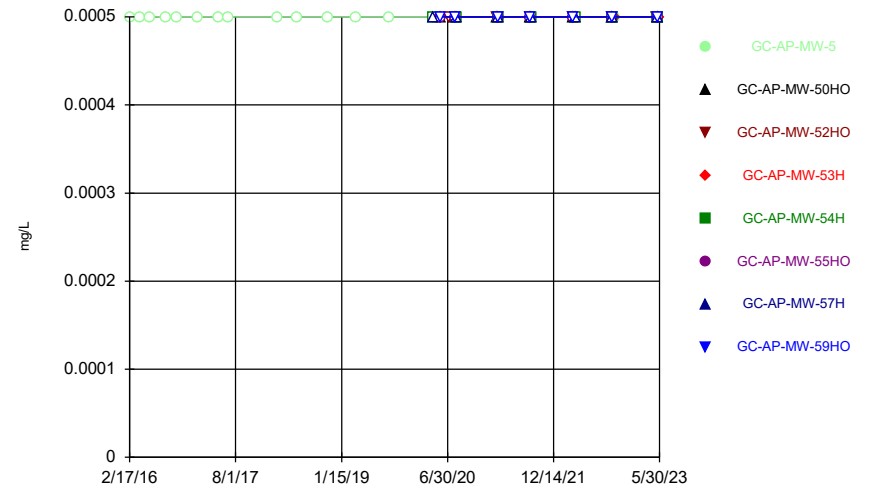
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Time Series



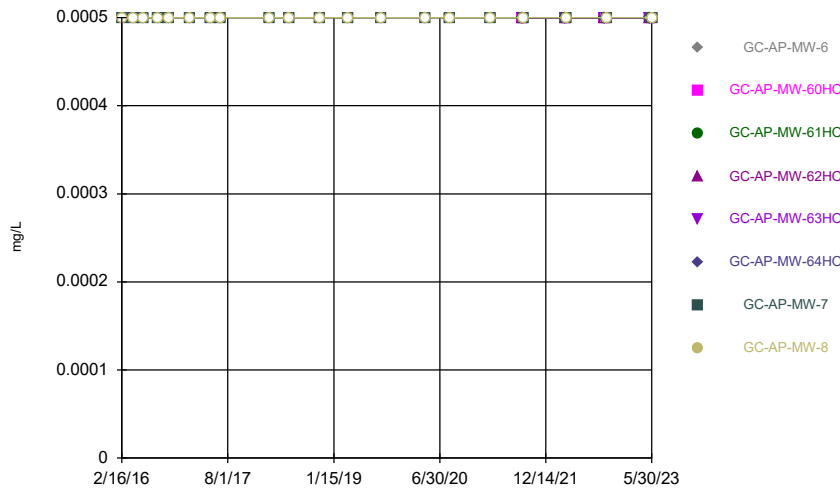
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Time Series



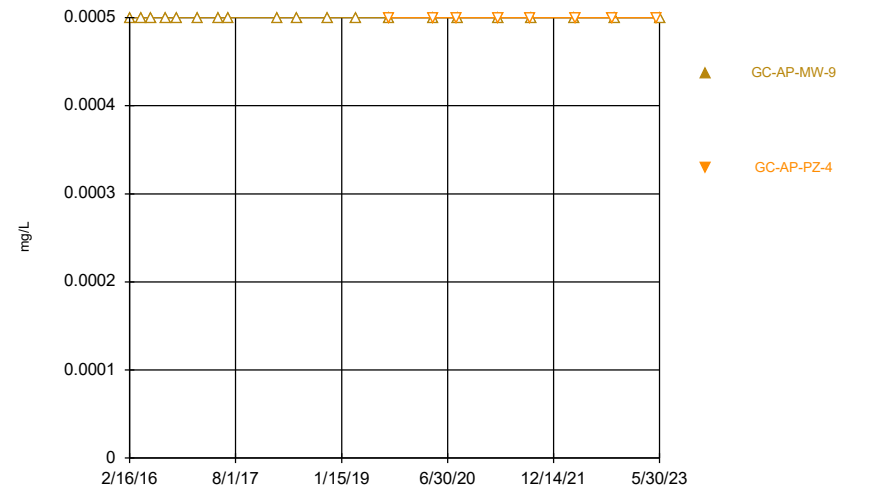
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Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



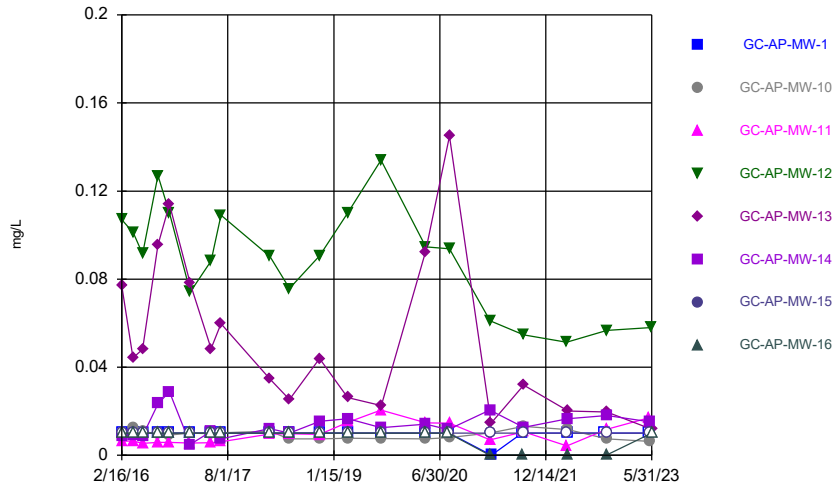
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Time Series



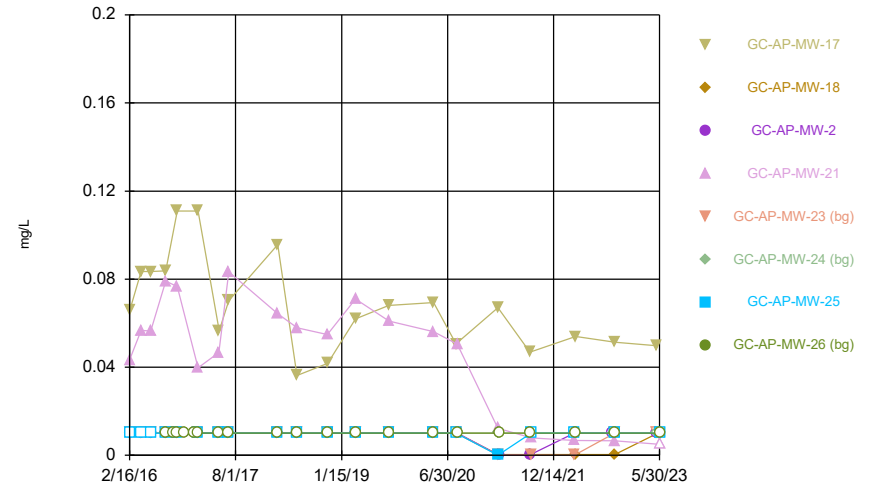
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### Time Series



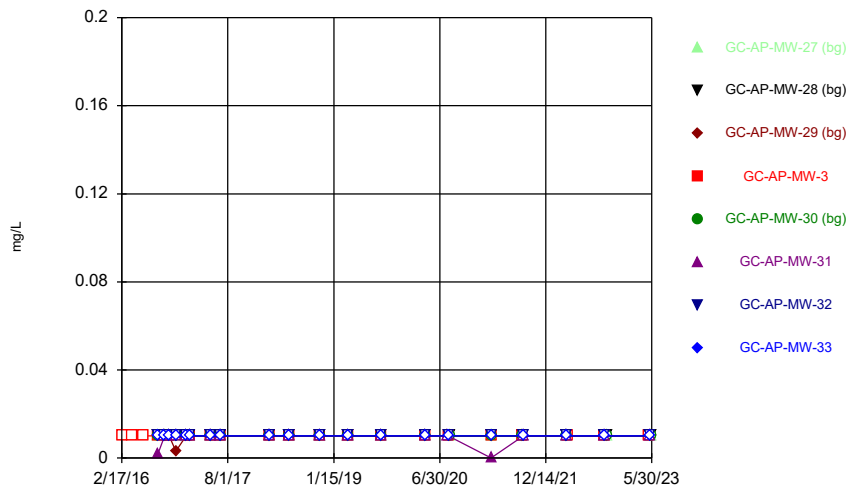
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Plant Greene County Client: Southern Company Data: Greene County AP

### Time Series



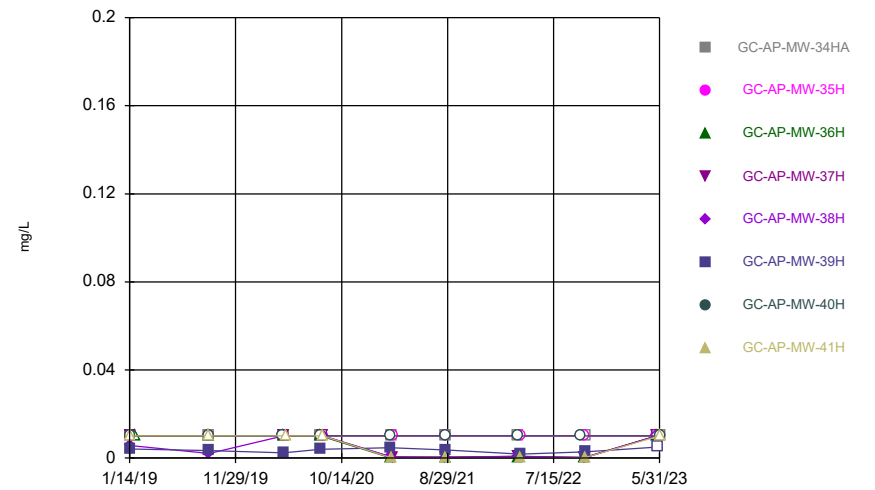
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Plant Greene County Client: Southern Company Data: Greene County AP

### Time Series



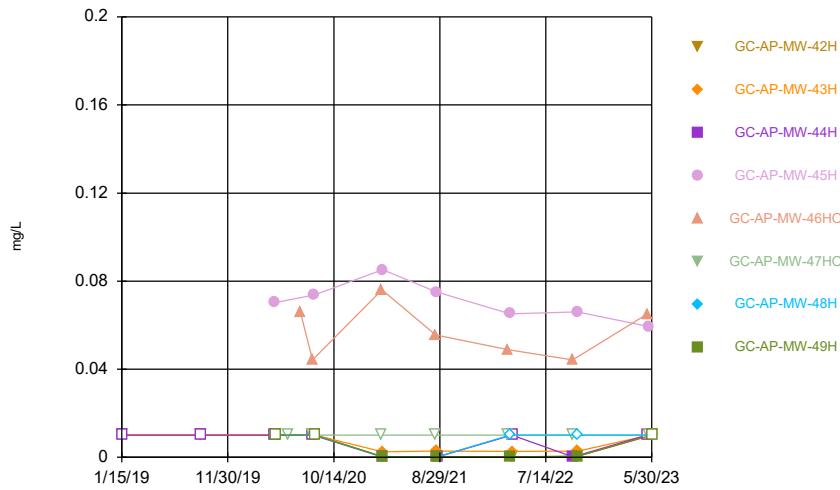
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### Time Series



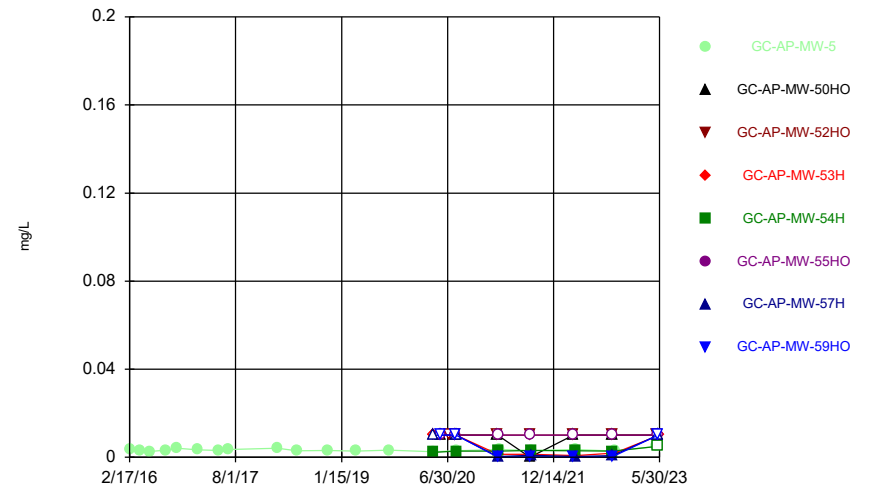
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Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



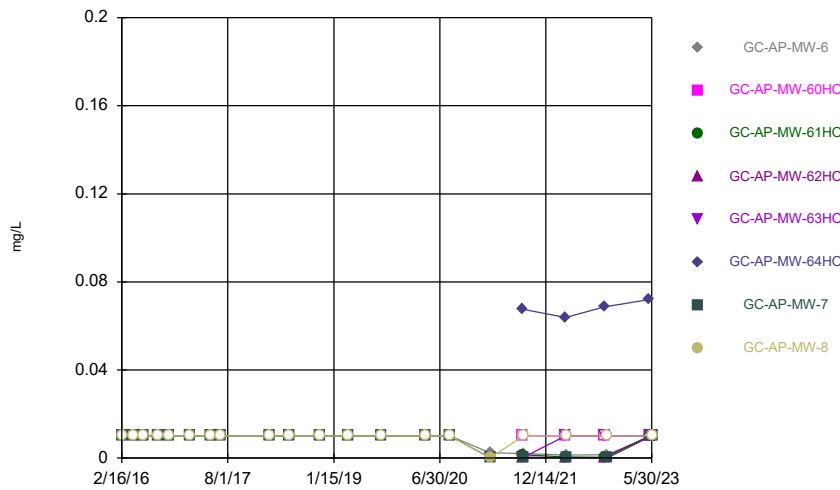
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Time Series



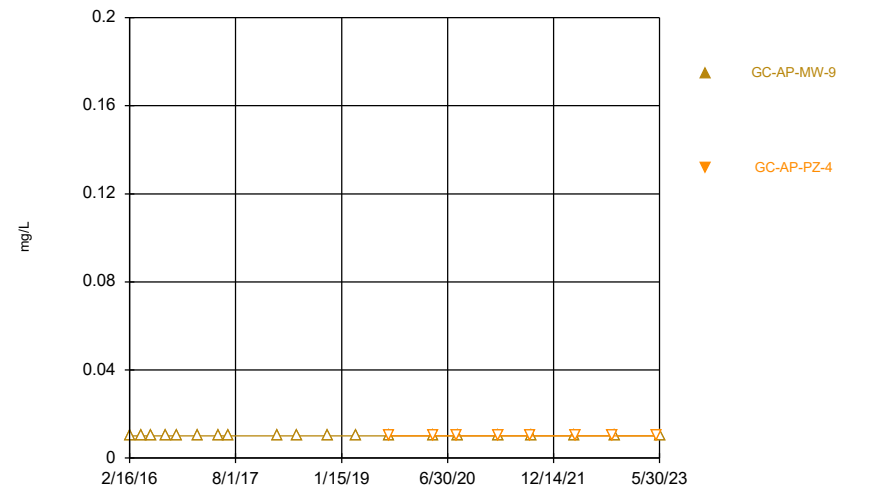
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Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



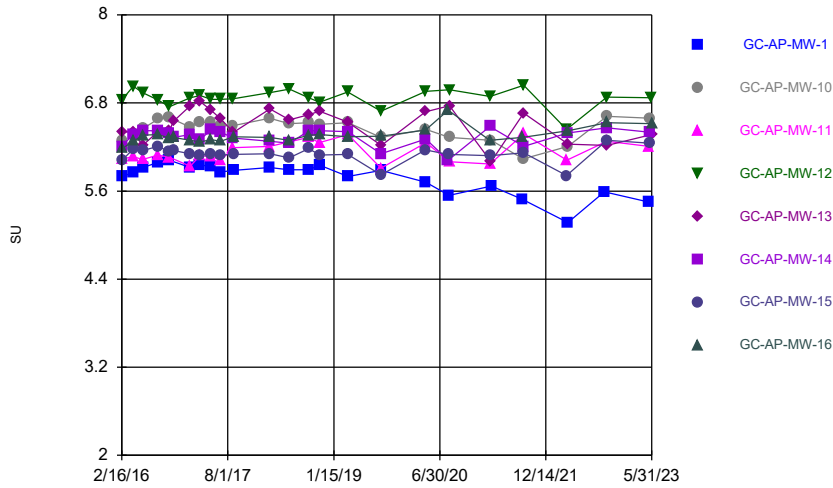
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Time Series



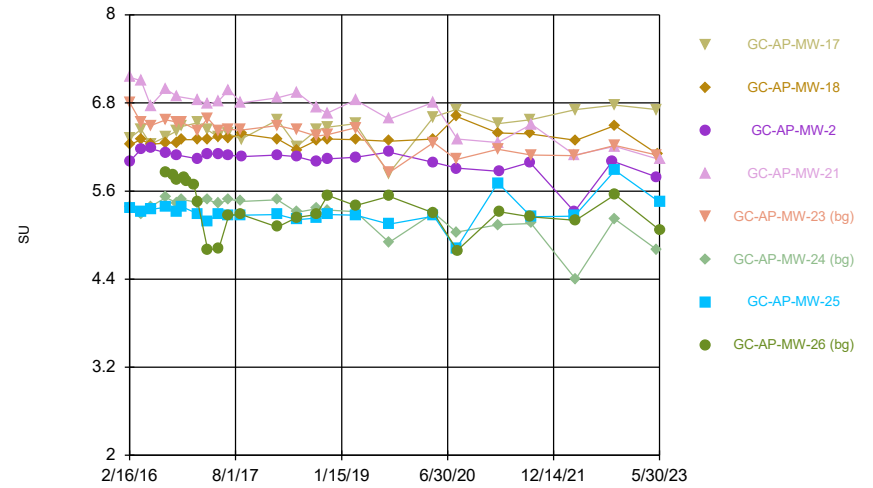
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### Time Series



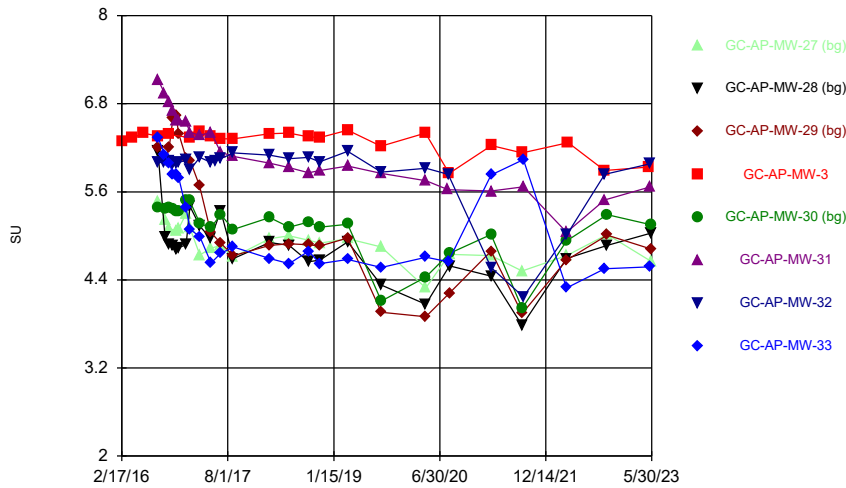
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### Time Series



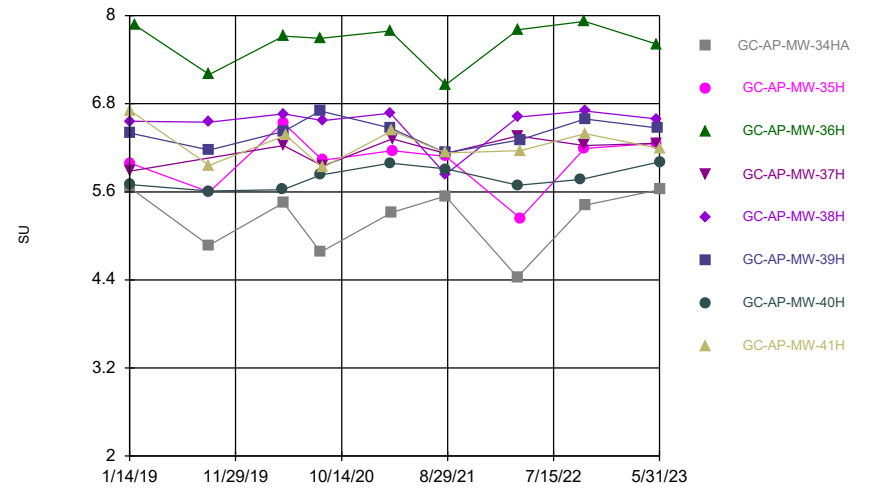
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Plant Greene County Client: Southern Company Data: Greene County AP

### Time Series



Constituent: pH Analysis Run 7/19/2023 1:44 PM View: Descriptive  
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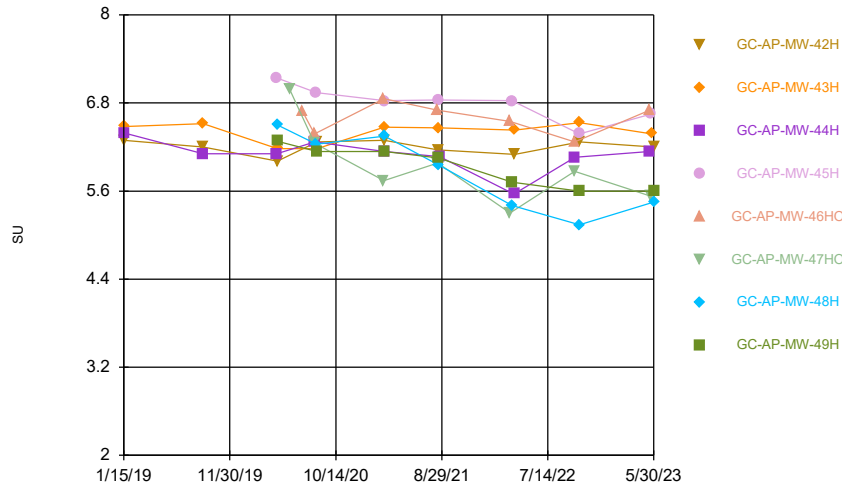
### Time Series



Constituent: pH Analysis Run 7/19/2023 1:44 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

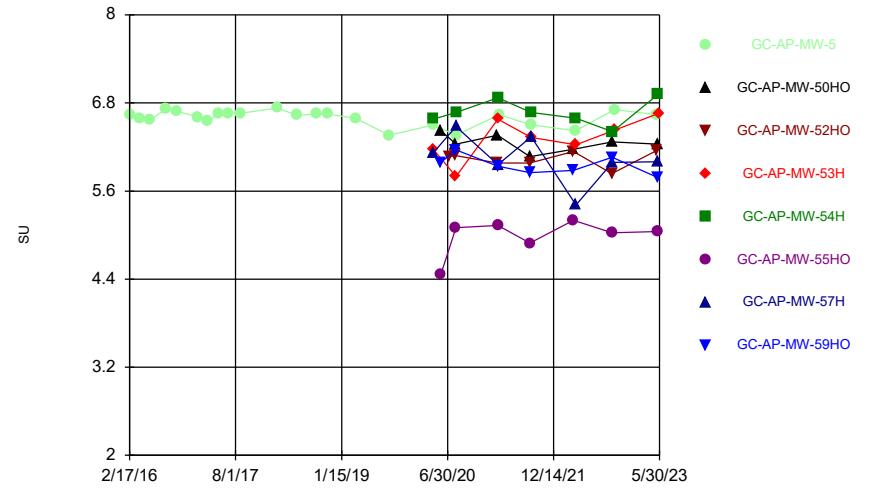


### Time Series



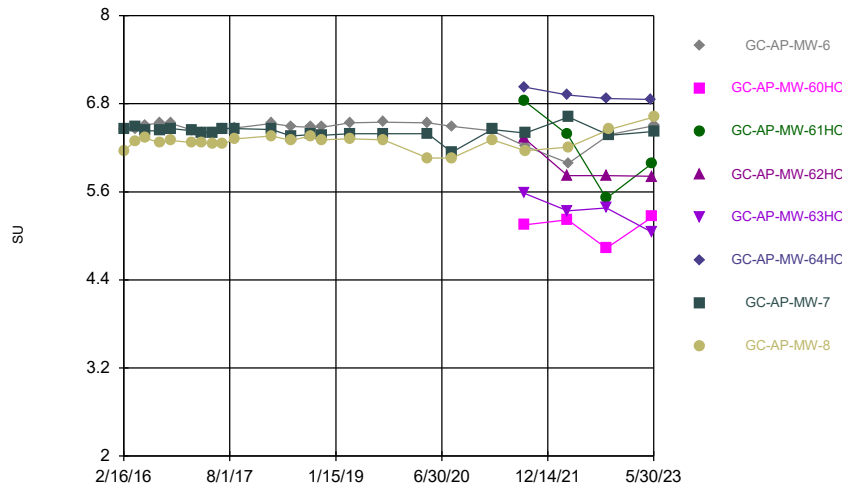
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### Time Series



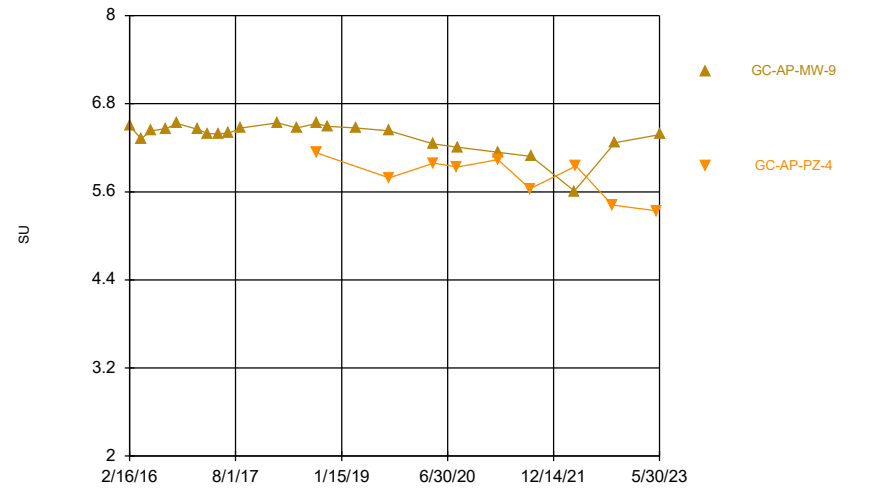
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Plant Greene County Client: Southern Company Data: Greene County AP

### Time Series



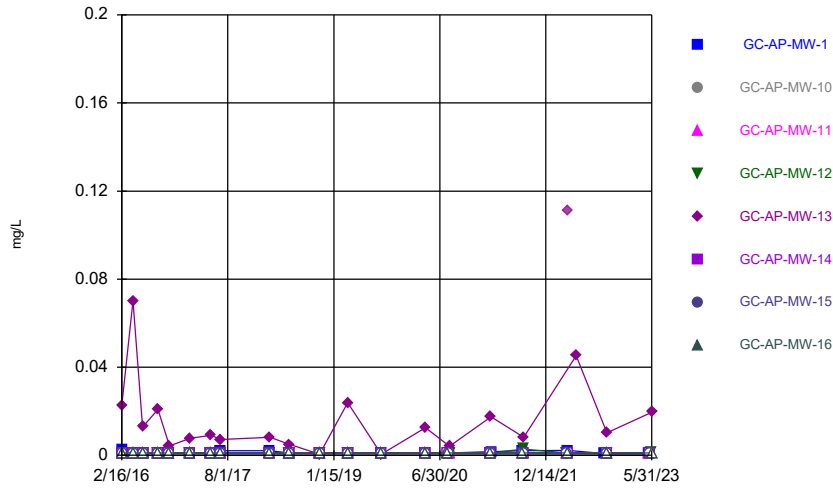
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### Time Series



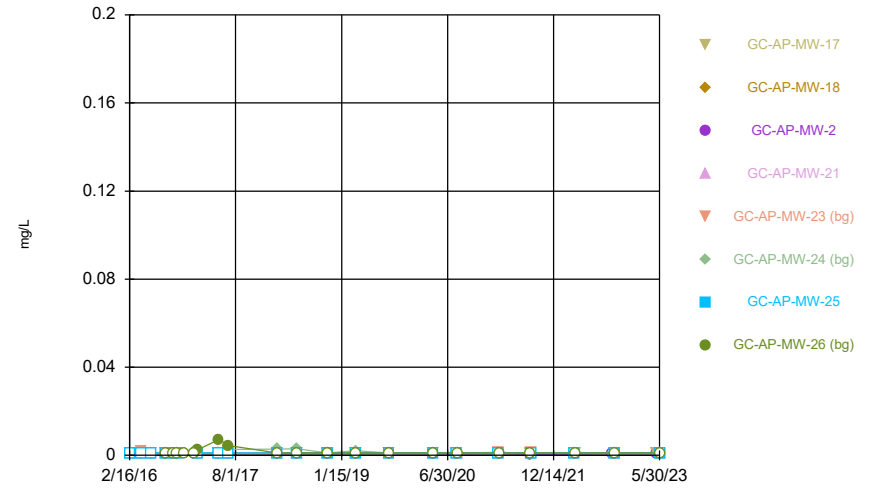
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Time Series



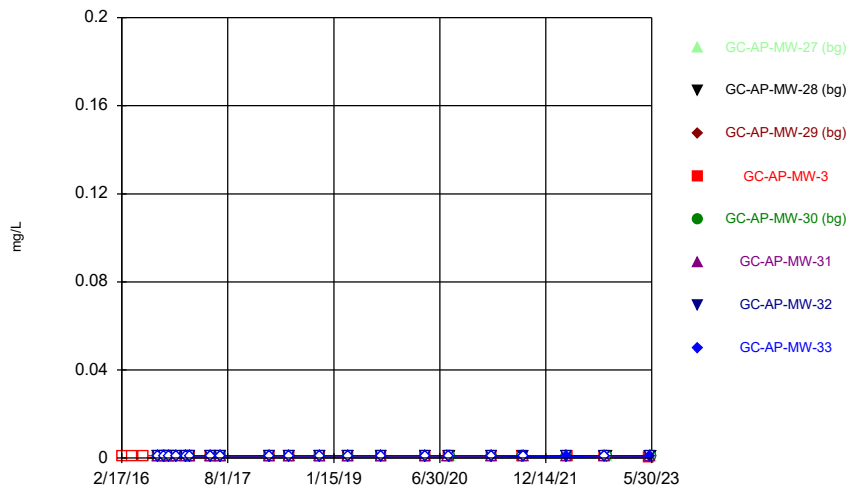
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Time Series



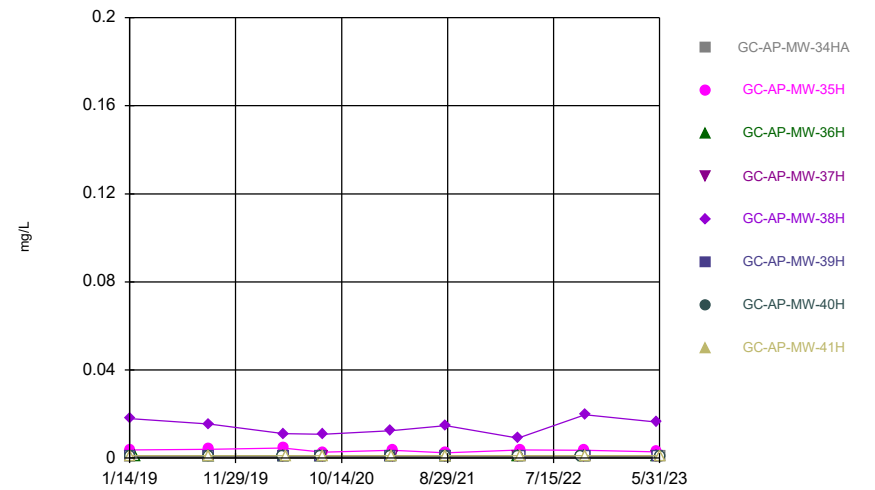
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Time Series



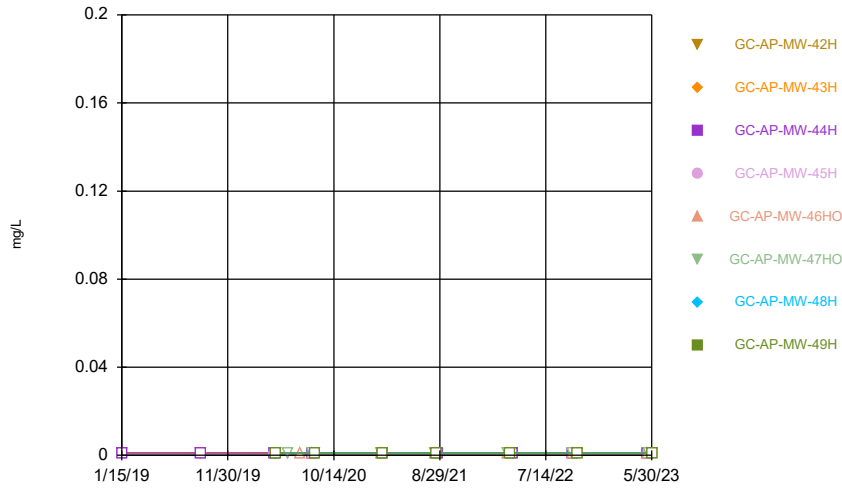
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Time Series



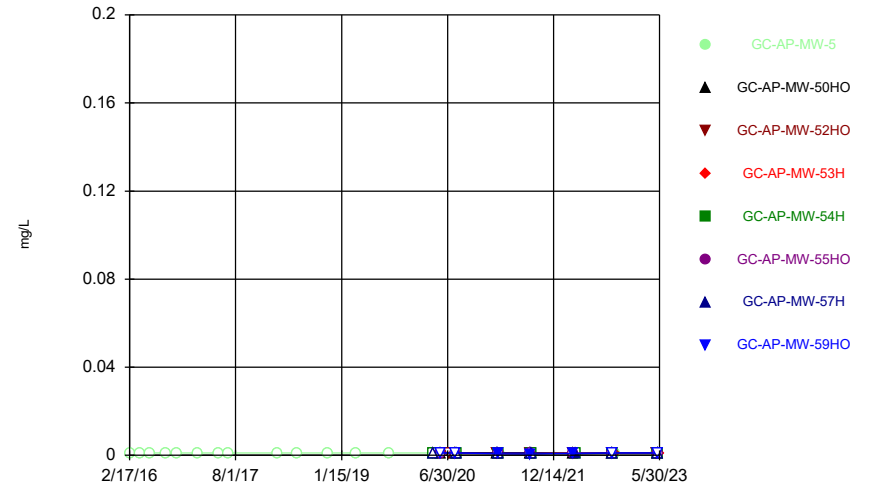
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Time Series



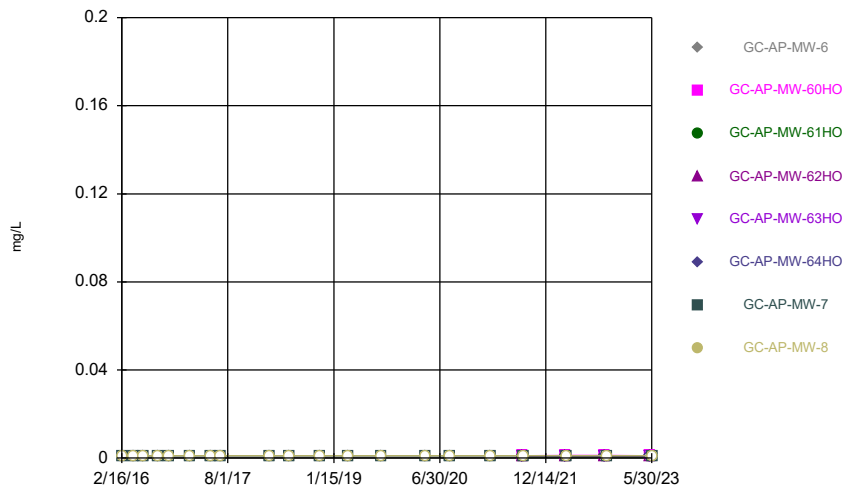
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Time Series



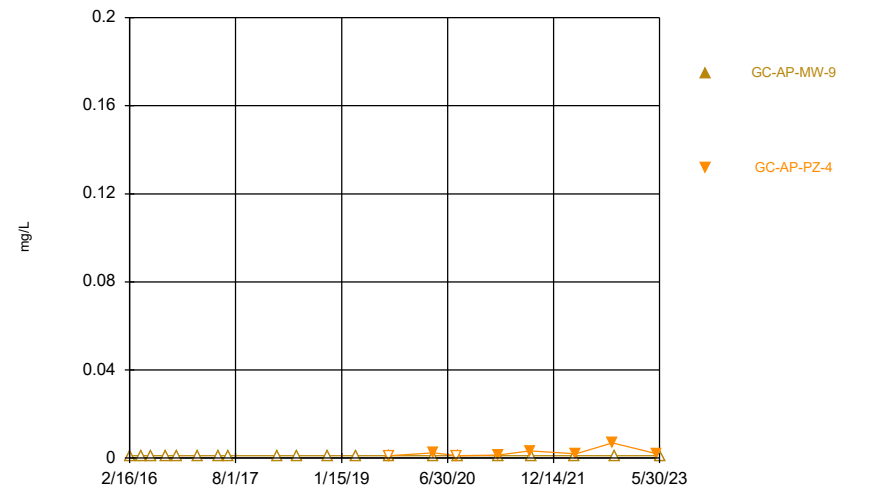
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Time Series



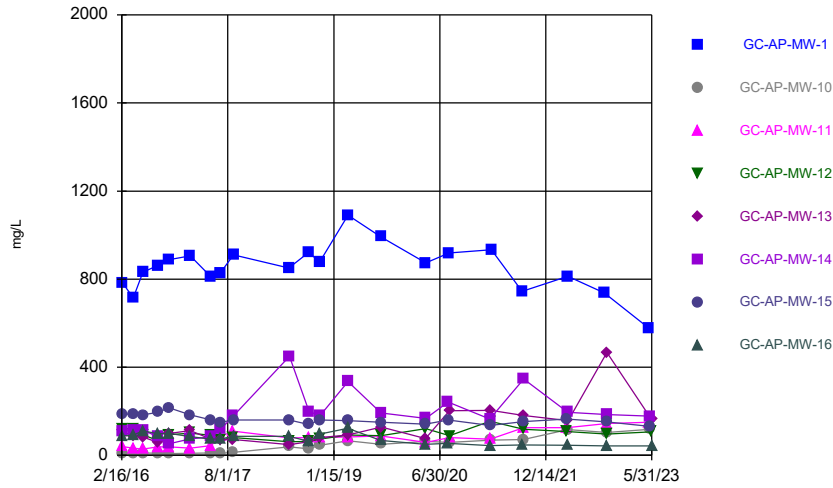
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Time Series



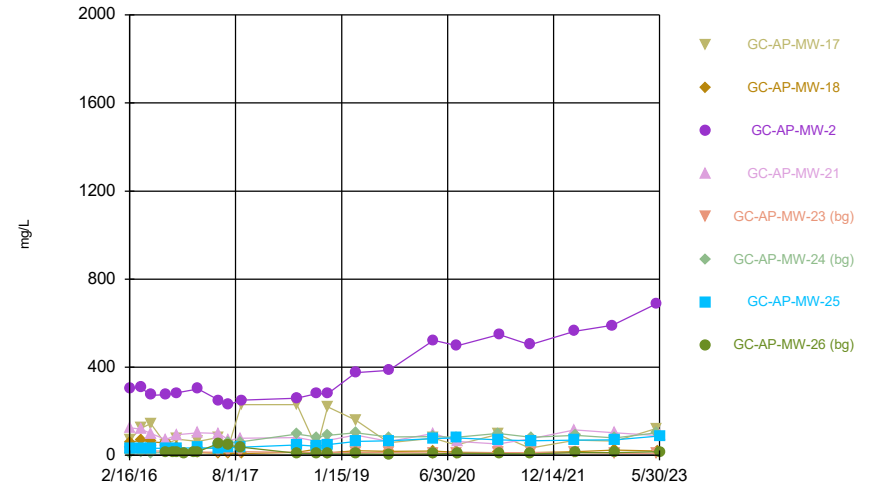
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 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



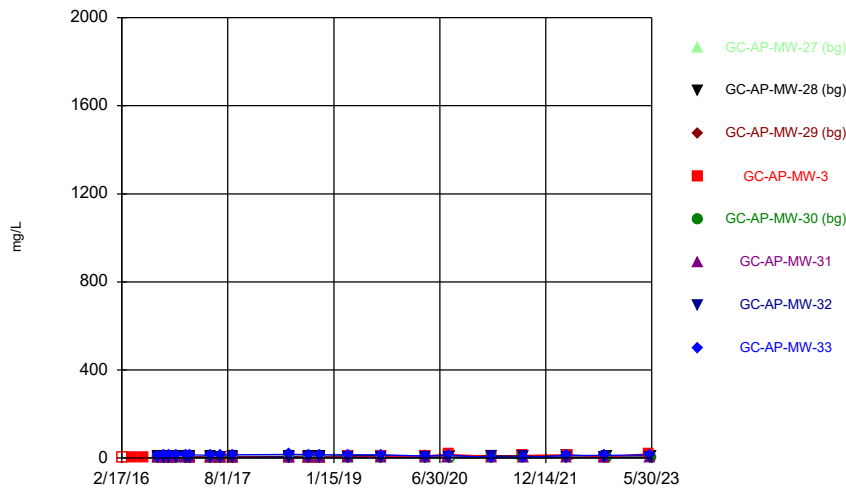
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 Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



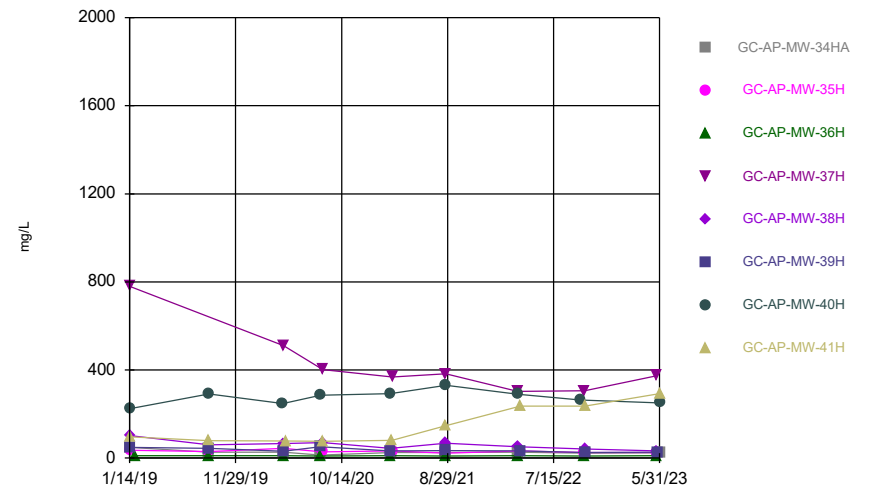
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Time Series



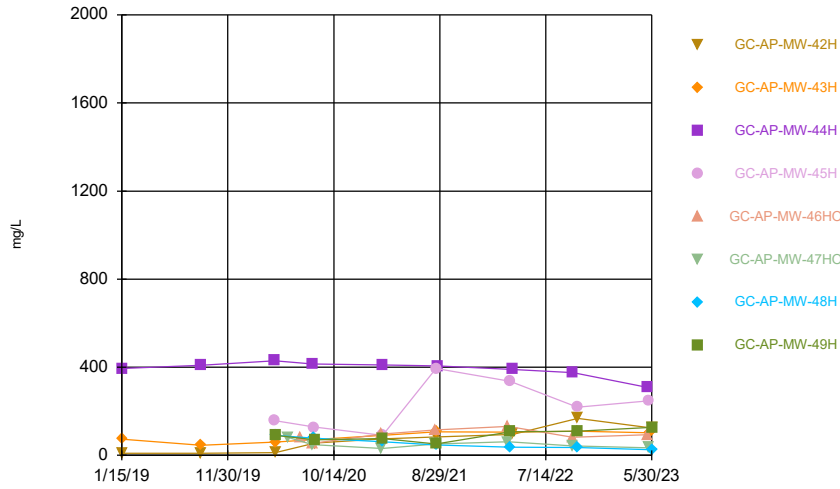
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Time Series



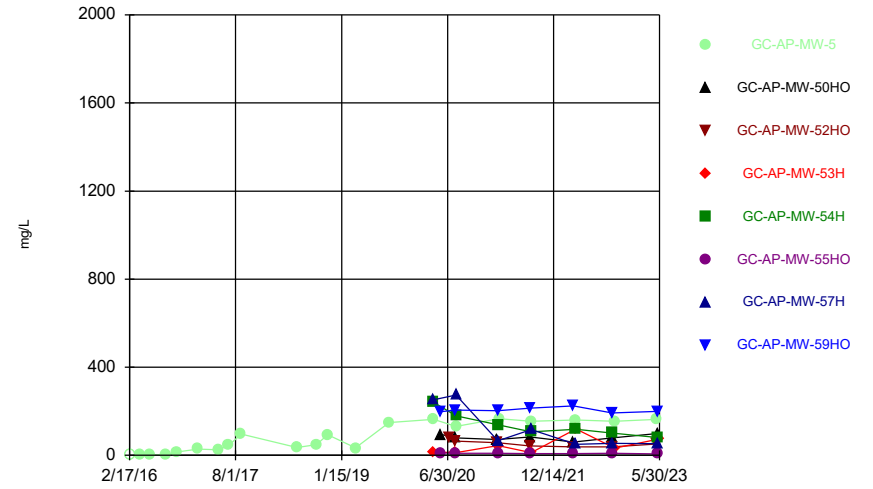
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 Plant Greene County Client: Southern Company Data: Greene County AP

### Time Series



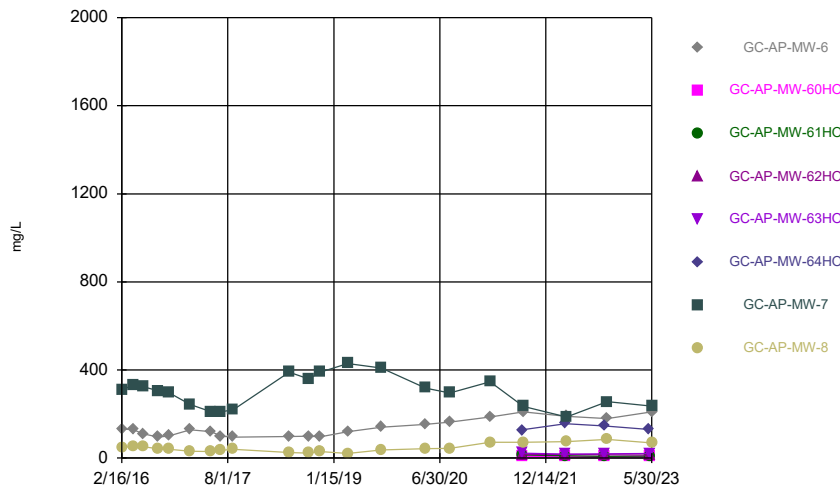
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### Time Series



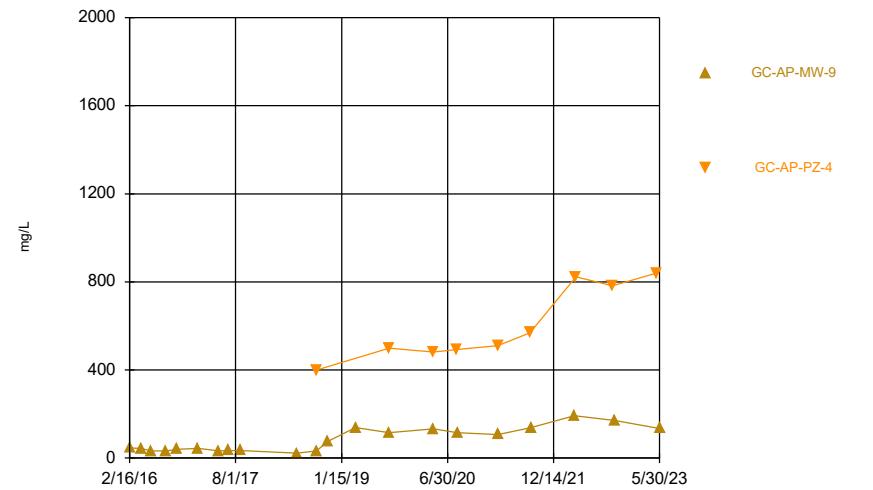
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### Time Series



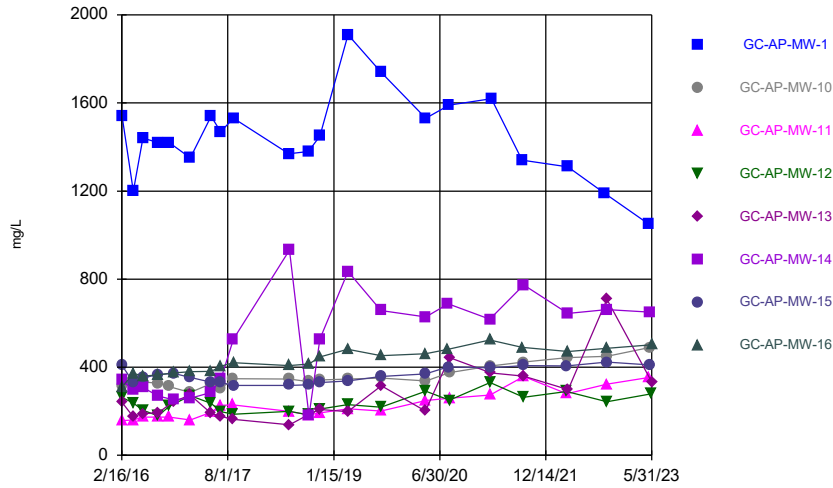
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### Time Series



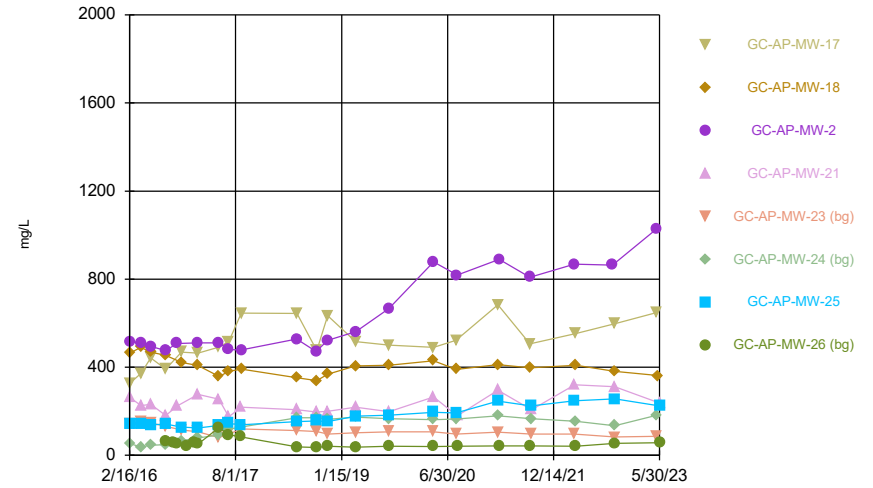
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### Time Series



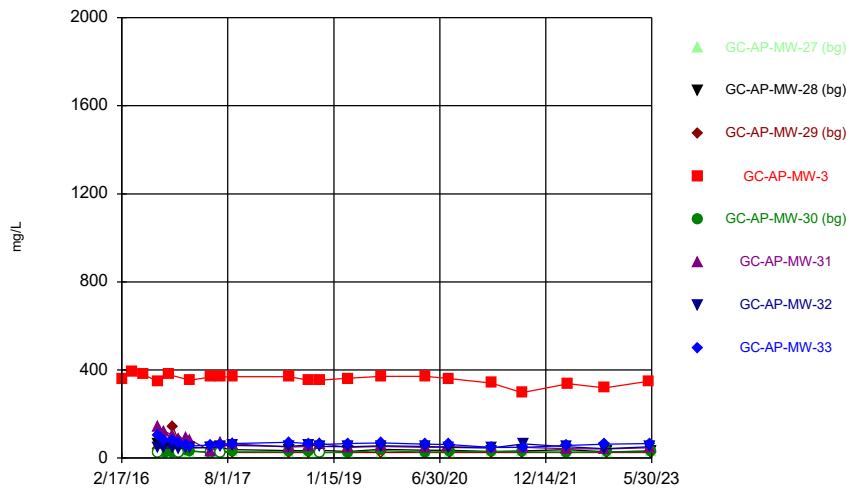
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### Time Series



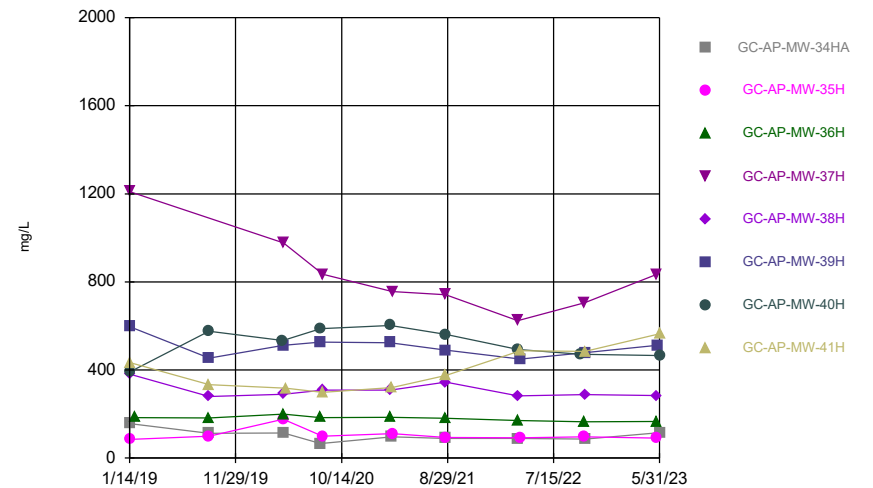
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### Time Series



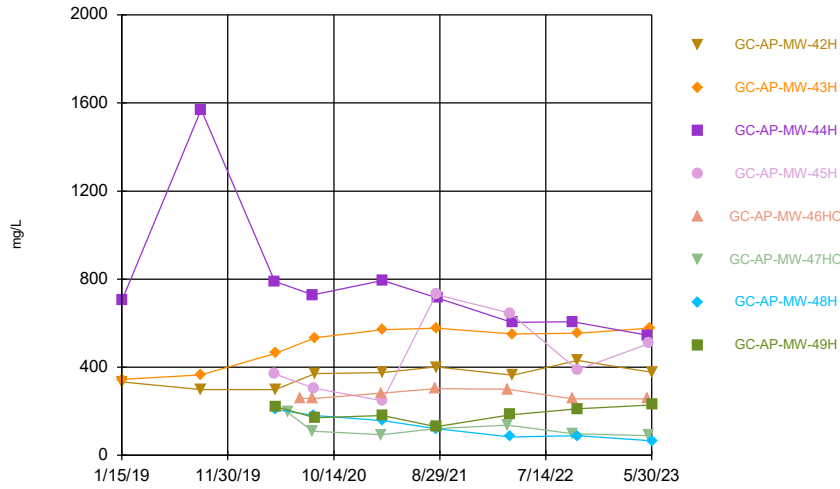
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### Time Series



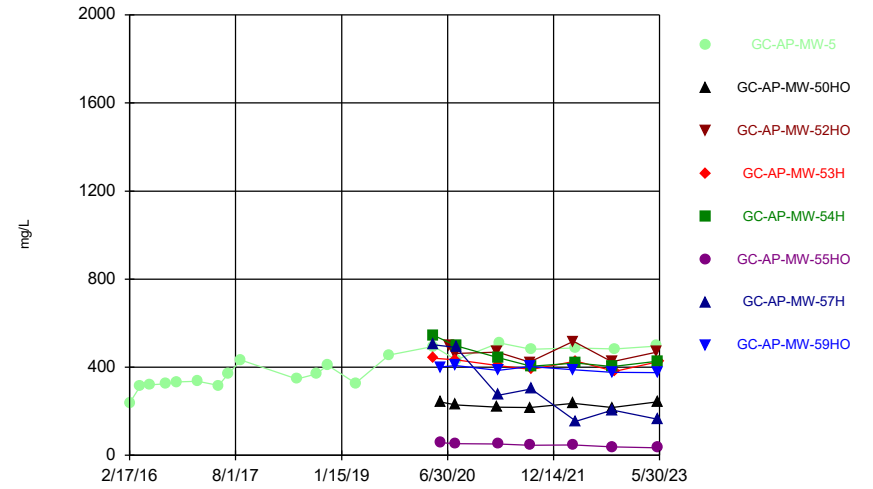
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Time Series



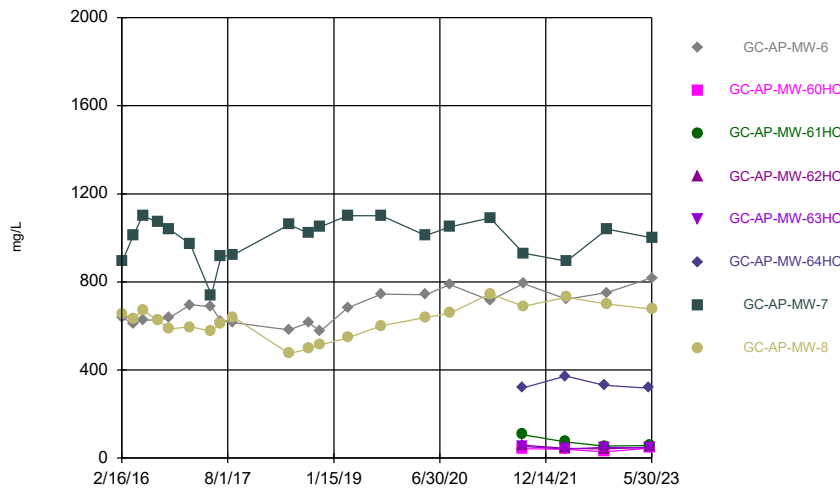
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Time Series



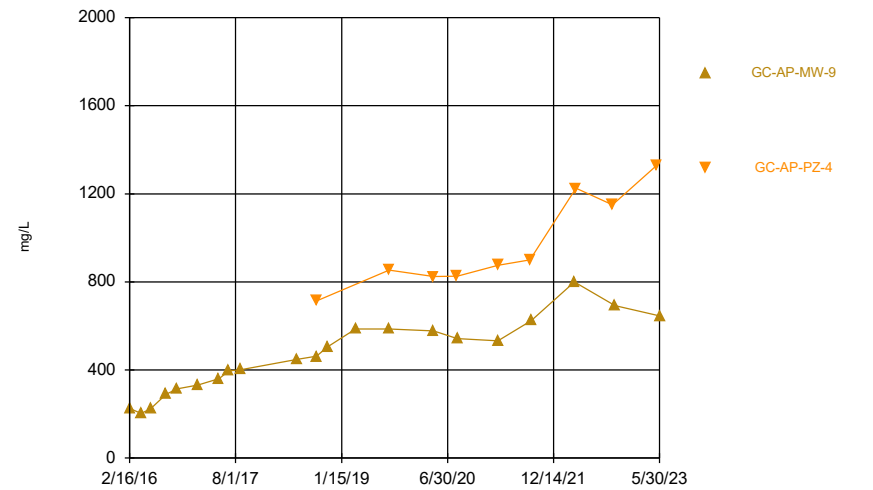
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Time Series



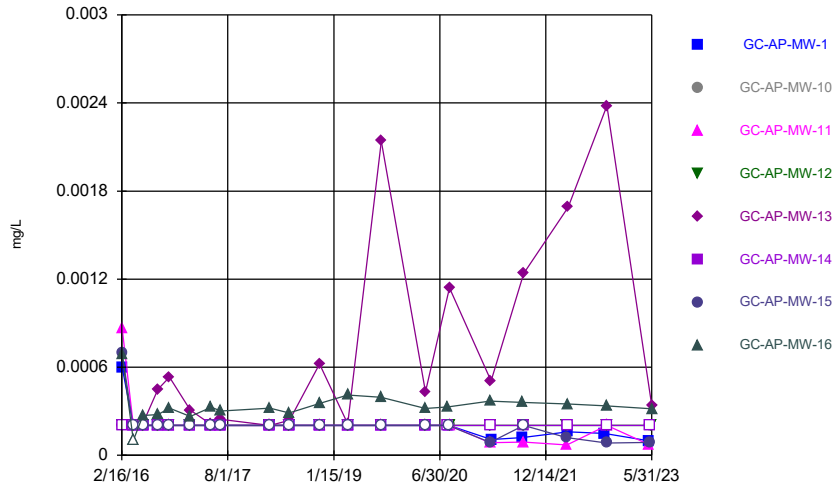
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Time Series



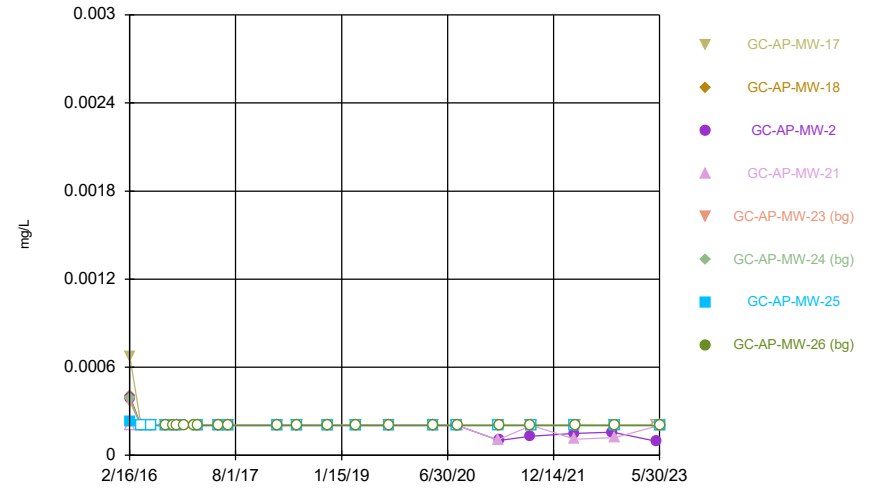
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Time Series



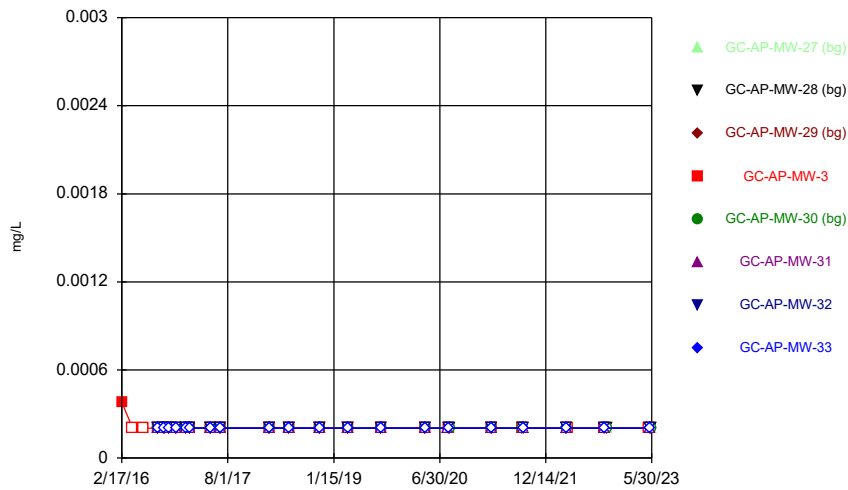
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Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



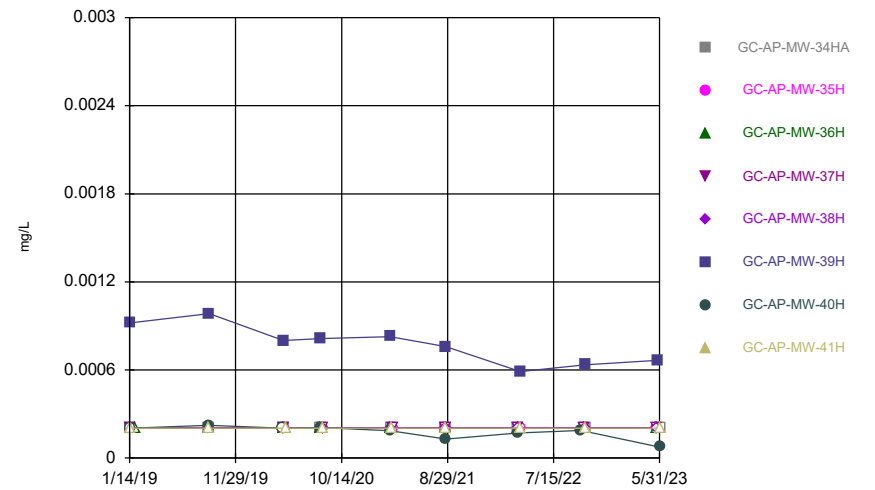
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Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



Constituent: Thallium Analysis Run 7/19/2023 1:45 PM View: Descriptive  
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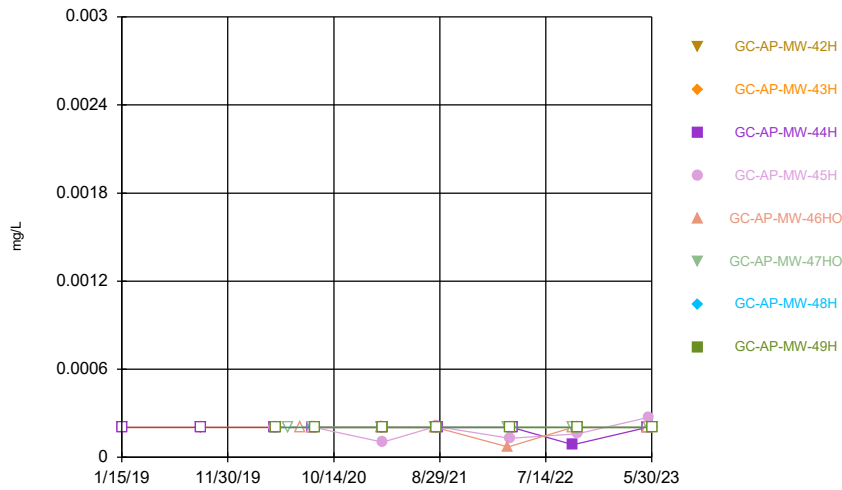
Time Series



Constituent: Thallium Analysis Run 7/19/2023 1:45 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

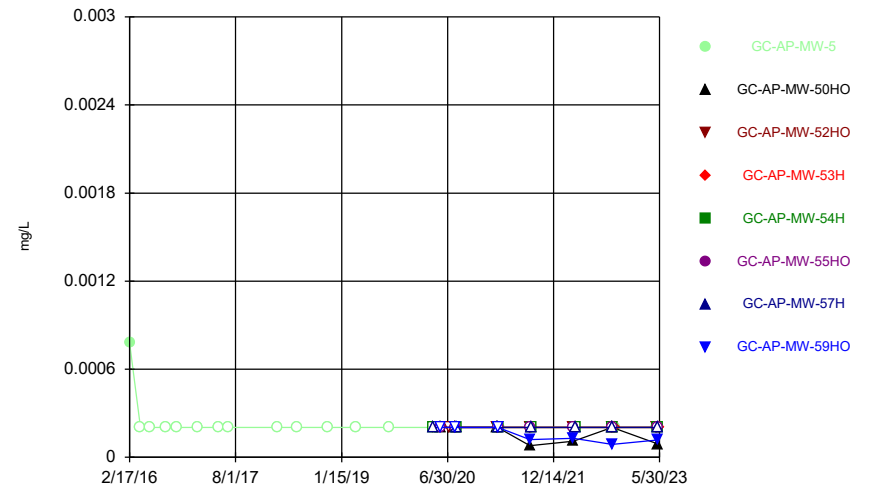


Time Series



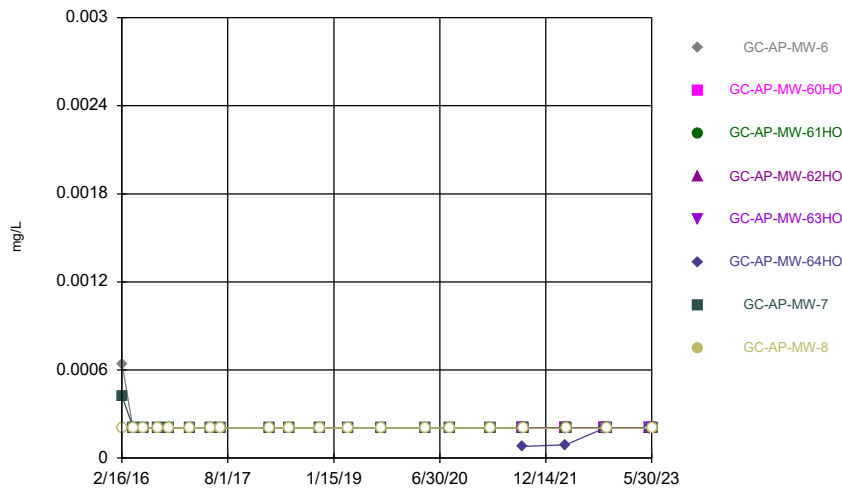
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Time Series



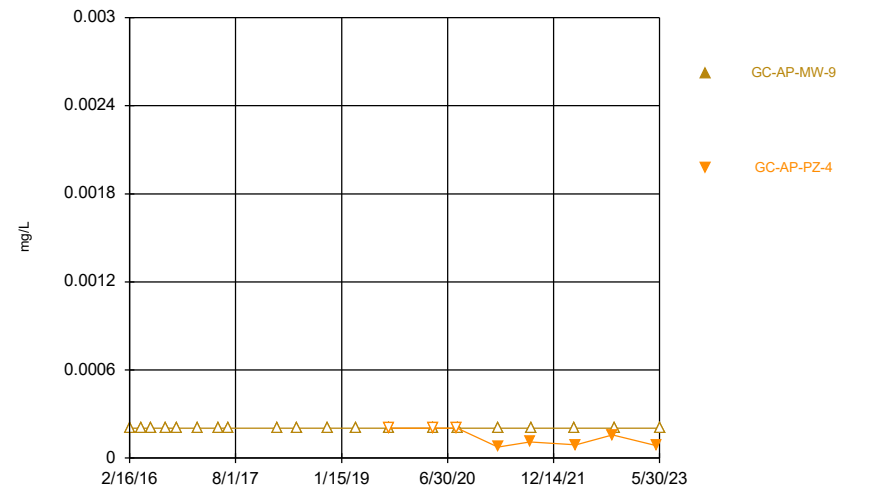
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Time Series



Constituent: Thallium Analysis Run 7/19/2023 1:45 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

Time Series



Constituent: Thallium Analysis Run 7/19/2023 1:45 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

# Time Series

Constituent: Antimony (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.000786 (J)		0.000933 (J)	0.000972 (J)	<0.001015		
2/17/2016	<0.001015		<0.001015				<0.001015	<0.001015
4/12/2016					<0.001015	<0.001015	<0.001015	
4/13/2016	<0.001015	<0.001015	<0.001015	<0.001015				<0.001015
5/31/2016		<0.001015	<0.001015	0.000834 (J)	0.000869 (J)	0.00062 (J)	<0.001015	
6/1/2016	<0.001015							<0.001015
8/15/2016	<0.001015							<0.001015
8/16/2016		<0.001015	<0.001015	0.00118 (J)	0.00128 (J)		<0.001015	
8/17/2016						<0.001015		
10/11/2016	<0.001015						<0.001015	
10/12/2016		<0.001015	<0.001015	0.000899 (J)	0.00114 (J)	<0.001015		<0.001015
1/24/2017	0.000799 (J)						0.00111 (J)	0.000935 (J)
1/25/2017		0.00128 (J)	0.000896 (J)	0.00136 (J)	0.00384	0.00106 (J)		
5/9/2017	<0.001015		<0.001015	<0.001015	0.00323	<0.001015		
5/10/2017		<0.001015					<0.001015	<0.001015
6/27/2017	<0.001015						<0.001015	<0.001015
6/28/2017		<0.001015	<0.001015	0.000683 (J)	0.00406	<0.001015		
2/27/2018	<0.001015	<0.001015	<0.001015			<0.001015		
2/28/2018				0.000656 (J)	0.00199 (J)		<0.001015	<0.001015
6/4/2018	<0.001015							
6/5/2018		<0.001015	<0.001015				<0.001015	<0.001015
6/6/2018				<0.001015	0.00261 (J)	<0.001015		
11/5/2018			<0.001015	<0.001015	0.00275 (J)			
11/6/2018	<0.001015						<0.001015	<0.001015
11/7/2018		<0.001015				<0.001015		
3/26/2019				0.00121 (J)	0.00219 (J)		<0.001015	<0.001015
3/27/2019	<0.001015	<0.001015	<0.001015			<0.001015		
9/10/2019	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015
9/11/2019					0.00261 (J)			
4/20/2020					0.00338		<0.001015	<0.001015
4/21/2020	<0.001015			<0.001015		<0.001015		
4/22/2020		<0.001015	<0.001015					
8/11/2020						<0.001015		<0.001015
8/12/2020							<0.001015	
8/17/2020	<0.001015							
8/18/2020		<0.001015	<0.001015	<0.001015	0.00388			
3/9/2021						<0.001015		<0.001015
3/10/2021			<0.001015	<0.001015			<0.001015	
3/15/2021		<0.001015			0.0016			
3/16/2021	<0.001015							
8/17/2021	<0.001015							<0.001015
8/24/2021		<0.001015						
8/25/2021			<0.001015	<0.001015	0.00263	<0.001015	<0.001015	
3/29/2022				<0.001015			<0.001015	
3/30/2022			<0.001015					
4/4/2022	<0.001015	<0.001015				<0.001015		
4/6/2022					0.002			<0.001015
10/5/2022	<0.001015							
10/17/2022			<0.001015	<0.001015	0.002			
10/18/2022		<0.001015				<0.001015	<0.001015	<0.001015
5/16/2023	<0.001015							
5/17/2023			<0.001015					

# Time Series

Constituent: Antimony (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							<0.001015	
5/24/2023		<0.001015				<0.001015		
5/30/2023				<0.001015				
5/31/2023					0.00192			<0.001015

# Time Series

Constituent: Antimony (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.001015				
2/17/2016	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	
4/12/2016		<0.001015			<0.001015	<0.001015	<0.001015	
4/13/2016	<0.001015		<0.001015	<0.001015				
6/1/2016	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
8/15/2016	<0.001015	<0.001015	<0.001015					
8/16/2016				<0.001015	<0.001015	<0.001015		
8/17/2016							<0.001015	<0.001015
9/20/2016								<0.001015
10/11/2016			<0.001015		<0.001015	<0.001015	<0.001015	
10/12/2016	<0.001015	<0.001015		<0.001015				<0.001015
11/15/2016								<0.001015
1/4/2017								<0.001015
1/23/2017								0.001 (J)
1/24/2017	0.000997 (J)	0.000984 (J)	0.00084 (J)		0.000886 (J)	0.000858 (J)	0.00111 (J)	
1/25/2017				0.00107 (J)				
5/9/2017			<0.001015	<0.001015	<0.001015		<0.001015	<0.001015
5/10/2017	<0.001015	<0.001015				<0.001015		
6/27/2017	<0.001015	<0.001015			<0.001015			<0.001015
6/28/2017			<0.001015	<0.001015		<0.001015	<0.001015	
2/27/2018			<0.001015		<0.001015	<0.001015		<0.001015
2/28/2018	<0.001015	<0.001015		<0.001015			<0.001015	
6/4/2018			<0.001015					
6/5/2018	<0.001015	<0.001015			<0.001015	<0.001015		<0.001015
6/6/2018				<0.001015			<0.001015	
11/5/2018				<0.001015				
11/6/2018	<0.001015	<0.001015	<0.001015				<0.001015	<0.001015
11/7/2018					<0.001015	<0.001015		
3/26/2019	0.000897 (J)	<0.001015		0.000964 (J)	<0.001015	<0.001015		<0.001015
3/27/2019			<0.001015				<0.001015	
9/9/2019	<0.001015	<0.001015	<0.001015					
9/10/2019				<0.001015	<0.001015	<0.001015	<0.001015	
9/11/2019								<0.001015
4/21/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015			<0.001015
4/22/2020						<0.001015	<0.001015	
8/11/2020	<0.001015						<0.001015	
8/12/2020		<0.001015			<0.001015	<0.001015		
8/17/2020			<0.001015					
8/18/2020				<0.001015				<0.001015
3/9/2021	<0.001015	<0.001015						
3/10/2021				<0.001015	<0.001015	<0.001015	<0.001015	
3/15/2021								<0.001015
3/16/2021			<0.001015					
8/17/2021	<0.001015	<0.001015	<0.001015					
8/18/2021								<0.001015
8/24/2021					<0.001015	<0.001015	<0.001015	
8/25/2021				<0.001015				
3/28/2022			<0.001015		<0.001015			
3/29/2022							<0.001015	
3/30/2022				<0.001015				
4/4/2022	<0.001015					<0.001015		<0.001015
4/6/2022		<0.001015						

# Time Series

Constituent: Antimony (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			<0.001015					
10/17/2022		<0.001015		<0.001015	<0.001015	<0.001015		
10/18/2022	<0.001015						<0.001015	
10/19/2022								<0.001015
5/16/2023					<0.001015	<0.001015		
5/17/2023	<0.001015		<0.001015					
5/22/2023		<0.001015						
5/30/2023				<0.001015			<0.001015	<0.001015

# Time Series

Constituent: Antimony (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016			<0.001015				
4/12/2016			<0.001015				
6/1/2016			<0.001015				
8/15/2016			<0.001015				
8/16/2016		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
8/17/2016	<0.001015	<0.001015					
9/19/2016					<0.001015	<0.001015	<0.001015
9/20/2016	<0.001015	<0.001015	<0.001015	<0.001015			
10/11/2016			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/12/2016	<0.001015	<0.001015					
11/14/2016					<0.001015	<0.001015	<0.001015
11/15/2016	<0.001015	<0.001015	<0.001015	<0.001015			
1/3/2017					<0.001015	<0.001015	<0.001015
1/4/2017	<0.001015	<0.001015	<0.001015	<0.001015			
1/23/2017	0.00083 (J)			0.000701 (J)			
1/24/2017		0.00096 (J)	0.000906 (J)		0.000928 (J)	0.00091 (J)	
1/25/2017							0.00112 (J)
1/26/2017			0.00092 (J)				
5/9/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
5/10/2017					<0.001015	<0.001015	<0.001015
6/27/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/28/2017				<0.001015			
2/27/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/4/2018				<0.001015			
6/5/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
11/5/2018						<0.001015	
11/6/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
3/26/2019	0.00137 (J)	0.000975 (J)	<0.001015	0.000854 (J)			
3/27/2019				<0.001015	<0.001015	<0.001015	<0.001015
9/9/2019				<0.001015			
9/11/2019	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
4/20/2020				<0.001015			
4/21/2020	<0.001015	<0.001015	<0.001015	<0.001015			
4/22/2020					<0.001015	<0.001015	<0.001015
8/11/2020					<0.001015		
8/12/2020						<0.001015	<0.001015
8/17/2020				<0.001015			
8/18/2020	<0.001015	<0.001015	<0.001015	<0.001015			
3/15/2021	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
3/16/2021				<0.001015			
8/17/2021				<0.001015			
8/18/2021	<0.001015	<0.001015	<0.001015	<0.001015			
8/23/2021					<0.001015	<0.001015	<0.001015
3/28/2022	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
4/5/2022				<0.001015			
10/5/2022				<0.001015	<0.001015	<0.001015	<0.001015
10/19/2022	<0.001015	<0.001015	<0.001015	<0.001015			
5/17/2023				<0.001015			
5/22/2023						<0.001015	<0.001015
5/23/2023					<0.001015		
5/30/2023	<0.001015	<0.001015	<0.001015	<0.001015			

# Time Series

Constituent: Antimony (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.001015			
1/15/2019				<0.001015		<0.001015	<0.001015	<0.001015
1/16/2019		<0.001015						
1/17/2019	<0.001015							
1/30/2019			<0.001015					
9/10/2019	<0.001015						<0.001015	
9/11/2019		<0.001015	<0.001015		<0.001015	<0.001015		<0.001015
4/20/2020							<0.001015	
4/21/2020		<0.001015						
4/22/2020	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015		
4/29/2020								<0.001015
8/11/2020			<0.001015			<0.001015		
8/12/2020	<0.001015						<0.001015	
8/18/2020		<0.001015						<0.001015
8/19/2020				<0.001015	<0.001015			
3/9/2021			<0.001015			<0.001015		
3/10/2021					<0.001015		<0.001015	
3/15/2021	<0.001015							<0.001015
3/16/2021		<0.001015		<0.001015				
8/23/2021	<0.001015							
8/24/2021		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
8/25/2021							<0.001015	<0.001015
3/28/2022	<0.001015							
3/29/2022				<0.001015				
3/30/2022			<0.001015		<0.001015		<0.001015	
4/6/2022		<0.001015				<0.001015		<0.001015
10/5/2022							<0.001015	
10/17/2022		<0.001015	<0.001015	<0.001015				
10/18/2022					<0.001015	<0.001015		<0.001015
10/19/2022	<0.001015							
5/22/2023			<0.001015					
5/23/2023		<0.001015		<0.001015	<0.001015			
5/24/2023						<0.001015		
5/31/2023	<0.001015						<0.001015	<0.001015

# Time Series

Constituent: Antimony (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.001015							
1/16/2019		<0.001015	<0.001015					
9/11/2019	<0.001015	<0.001015	<0.001015					
4/20/2020			<0.001015	<0.001015				
4/21/2020	<0.001015	<0.001015					<0.001015	<0.001015
5/28/2020						<0.001015		
7/6/2020					<0.001015			
8/11/2020					<0.001015	<0.001015		
8/12/2020			<0.001015					
8/17/2020				<0.001015			<0.001015	
8/19/2020	<0.001015	<0.001015						<0.001015
3/8/2021					<0.001015	<0.001015		
3/9/2021	<0.001015	<0.001015						
3/10/2021			<0.001015	<0.001015			<0.001015	<0.001015
8/17/2021					<0.001015	<0.001015		
8/18/2021	<0.001015	<0.001015		<0.001015			<0.001015	<0.001015
8/23/2021			<0.001015					
3/23/2022					<0.001015	<0.001015		
3/29/2022				<0.001015				
3/30/2022							<0.001015	<0.001015
4/4/2022			<0.001015					
4/6/2022	<0.001015	<0.001015						
10/4/2022					<0.001015	<0.001015		
10/5/2022			<0.001015					
10/18/2022				<0.001015			<0.001015	
10/19/2022	<0.001015	<0.001015						<0.001015
5/16/2023			<0.001015					
5/17/2023					<0.001015			
5/22/2023				<0.001015		<0.001015		
5/24/2023		<0.001015						
5/30/2023	<0.001015						<0.001015	<0.001015



# Time Series

Constituent: Antimony (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.001015							
4/12/2016	<0.001015							
5/31/2016	<0.001015							
8/17/2016	<0.001015							
10/11/2016	<0.001015							
1/24/2017	0.000728 (J)							
5/9/2017	<0.001015							
6/28/2017	<0.001015							
2/27/2018	<0.001015							
6/5/2018	<0.001015							
11/6/2018	<0.001015							
3/27/2019	<0.001015							
9/11/2019	<0.001015							
4/20/2020				<0.001015	<0.001015		<0.001015	
4/21/2020	<0.001015							
5/28/2020		<0.001015				<0.001015		<0.001015
7/6/2020			<0.001015					
8/11/2020		<0.001015	<0.001015	<0.001015		<0.001015		<0.001015
8/12/2020	<0.001015				<0.001015		<0.001015	
3/8/2021		<0.001015	<0.001015					
3/9/2021						<0.001015		<0.001015
3/10/2021				<0.001015	<0.001015		<0.001015	
3/16/2021	<0.001015							
8/16/2021			<0.001015					
8/17/2021		<0.001015				<0.001015		<0.001015
8/23/2021	<0.001015			<0.001015	<0.001015		<0.001015	
3/23/2022		<0.001015	<0.001015			<0.001015		<0.001015
4/4/2022	<0.001015							
4/5/2022					<0.001015		<0.001015	
4/6/2022				<0.001015				
10/3/2022			<0.001015					
10/4/2022		<0.001015				<0.001015		<0.001015
10/5/2022					<0.001015		<0.001015	
10/17/2022	<0.001015			<0.001015				
5/15/2023			<0.001015					
5/17/2023	<0.001015							
5/23/2023		<0.001015			<0.001015	<0.001015	<0.001015	<0.001015
5/30/2023				<0.001015				

# Time Series

Constituent: Antimony (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.001015
2/17/2016	<0.001015						<0.001015	
4/12/2016	<0.001015							
4/13/2016							<0.001015	<0.001015
5/31/2016	<0.001015						<0.001015	
6/1/2016								<0.001015
8/17/2016	<0.001015						<0.001015	<0.001015
10/11/2016	<0.001015							
10/12/2016							<0.001015	<0.001015
1/24/2017	0.000792 (J)							
1/25/2017							0.000839 (J)	0.000833 (J)
5/10/2017	<0.001015						<0.001015	<0.001015
6/28/2017	<0.001015						<0.001015	<0.001015
2/27/2018	<0.001015						<0.001015	<0.001015
6/5/2018	<0.001015						<0.001015	<0.001015
11/7/2018	<0.001015						<0.001015	<0.001015
3/26/2019	0.00141 (J)						<0.001015	<0.001015
9/10/2019	<0.001015						<0.001015	<0.001015
4/21/2020	<0.001015						<0.001015	<0.001015
8/19/2020	<0.001015						<0.001015	<0.001015
3/9/2021	<0.001015						<0.001015	<0.001015
8/17/2021		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
8/24/2021	<0.001015						0.00075 (J)	<0.001015
3/23/2022		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
3/29/2022	<0.001015						0.00066 (J)	<0.001015
10/4/2022		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
10/18/2022	<0.001015						<0.001015	<0.001015
5/17/2023						<0.001015		
5/22/2023				<0.001015	<0.001015			
5/23/2023		<0.001015	<0.001015					
5/30/2023	<0.001015						<0.001015	<0.001015

# Time Series

Constituent: Antimony (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.001015	
4/13/2016	<0.001015	
6/1/2016	<0.001015	
8/17/2016	<0.001015	
10/12/2016	<0.001015	
1/25/2017	0.000847 (J)	
5/10/2017	<0.001015	
6/28/2017	<0.001015	
2/27/2018	<0.001015	
6/5/2018	<0.001015	
11/7/2018	<0.001015	
3/26/2019	<0.001015	
9/10/2019	<0.001015	<0.001015
4/20/2020		<0.001015
4/21/2020	<0.001015	
8/17/2020		<0.001015
8/18/2020	<0.001015	
3/9/2021	<0.001015	
3/10/2021		<0.001015
8/17/2021		<0.001015
8/24/2021	<0.001015	
3/29/2022	<0.001015	
4/5/2022		<0.001015
10/5/2022		<0.001015
10/18/2022	<0.001015	
5/17/2023		<0.001015
5/30/2023	<0.001015	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.0123		<0.000203	0.0141	0.0202		
2/17/2016	0.0181		0.00437 (J)				<0.000203	0.0788
4/12/2016					0.0144	0.0214	<0.000203	
4/13/2016	0.0178	0.0143	0.00695	<0.000203				0.0759
5/31/2016		0.0125	0.0063	<0.000203	0.00984	0.0156	<0.000203	
6/1/2016	0.016							0.292
8/15/2016	0.0182							0.105
8/16/2016		0.0128	0.0068	<0.000203	0.0126		<0.000203	
8/17/2016						0.0153		
10/11/2016	0.0186						<0.000203	
10/12/2016		0.0145	0.00709	<0.000203	0.0117	0.0254		0.0831
1/24/2017	0.0173						<0.000203	0.0472
1/25/2017		0.0122	0.00718	<0.000203	0.00316 (J)	0.0194		
5/9/2017	0.0176		0.00819	<0.000203	0.00393 (J)	0.0361		
5/10/2017		0.0135					<0.000203	0.0814
6/27/2017	0.0165						<0.000203	0.0693
6/28/2017		0.0131	0.00664	<0.000203	0.00406 (J)	0.022		
2/27/2018	0.0201	0.0146	0.00733			0.0265		
2/28/2018				<0.000203	0.00278 (J)		<0.000203	0.0852
6/4/2018	0.0195							
6/5/2018		0.0233	0.00637				<0.000203	0.0648
6/6/2018				<0.000203	0.00352 (J)	0.0372		
11/5/2018			0.00195 (J)	<0.000203	0.00497 (J)			
11/6/2018	0.0189						<0.000203	0.0701
11/7/2018		0.0152				0.0289		
3/26/2019				<0.000203	0.00251 (J)		<0.000203	0.0952
3/27/2019	0.0267	0.014	0.00573			0.0264		
9/10/2019	0.0226	0.0132	0.00378 (J)	<0.000203		0.0263	<0.000203	0.0786
9/11/2019					0.00664			
4/20/2020					0.00181 (J)		<0.000203	0.105
4/21/2020	0.0219			<0.000203		0.0178		
4/22/2020		0.0121	0.00616					
8/11/2020						0.0207		0.0698
8/12/2020							<0.000203	
8/17/2020	0.0265							
8/18/2020		0.0121	0.00457 (J)	<0.000203	0.00176 (J)			
3/9/2021						0.0292		0.113
3/10/2021			0.00317	0.000251			0.000349	
3/15/2021		0.0125			0.00207			
3/16/2021	0.0238							
8/17/2021	0.0206							0.0765
8/24/2021		0.0129						
8/25/2021			0.00518	0.00023	0.00302	0.0224	0.00046	
3/29/2022				0.00023			0.00032	
3/30/2022			0.00097					
4/4/2022	0.0164	0.0117				0.0241		
4/6/2022					0.00261			0.078
10/5/2022	0.0152							
10/17/2022			0.00251	0.000335	0.00397			
10/18/2022		0.0117				0.0269	0.000379	0.0653
5/16/2023	0.012							
5/17/2023			0.00314					

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							0.000389	
5/24/2023		0.0123				0.0277		
5/30/2023				0.00029				
5/31/2023					0.00639			0.0855

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.000203				
2/17/2016	0.177	0.133	0.0142		<0.000203	<0.000203	<0.000203	
4/12/2016		0.134			<0.000203	<0.000203	<0.000203	
4/13/2016	0.271		0.0145	<0.000203				
6/1/2016	0.251	0.11	0.0112	<0.000203	<0.000203	<0.000203	<0.000203	
8/15/2016	0.253	0.116	0.0154					
8/16/2016				<0.000203	<0.000203	<0.000203		
8/17/2016							<0.000203	0.0017 (J)
9/20/2016								0.00283 (J)
10/11/2016			0.0113		<0.000203	<0.000203	<0.000203	
10/12/2016	0.243	0.109		<0.000203				0.00218 (J)
11/15/2016								0.00124 (J)
1/4/2017								0.0028 (J)
1/23/2017								0.00257 (J)
1/24/2017	0.363	0.0825	0.0115		<0.000203	<0.000203	<0.000203	
1/25/2017				<0.000203				
5/9/2017			0.00989	<0.000203	<0.000203		<0.000203	0.00138 (J)
5/10/2017	0.499	0.0776				<0.000203		
6/27/2017	0.489	0.0672			<0.000203			<0.000203
6/28/2017			0.00848	<0.000203		<0.000203	<0.000203	
2/27/2018			0.0106		<0.000203	<0.000203		<0.000203
2/28/2018	0.532	0.063		<0.000203			<0.000203	
6/4/2018			0.0124					
6/5/2018	0.382	0.0661			<0.000203	<0.000203		<0.000203
6/6/2018				<0.000203			<0.000203	
11/5/2018				<0.000203				
11/6/2018	0.299	0.0509	0.0085				<0.000203	<0.000203
11/7/2018					<0.000203	<0.000203		
3/26/2019	0.32	0.0477		<0.000203	<0.000203	<0.000203		<0.000203
3/27/2019			0.0101				<0.000203	
9/9/2019	0.356	0.0498	0.022					
9/10/2019				<0.000203	<0.000203	<0.000203	<0.000203	
9/11/2019								<0.000203
4/21/2020	0.689	0.0478	0.013	<0.000203	<0.000203			<0.000203
4/22/2020						<0.000203	<0.000203	
8/11/2020	0.581						<0.000203	
8/12/2020		0.0485			<0.000203	<0.000203		
8/17/2020			0.00768					
8/18/2020				<0.000203				<0.000203
3/9/2021	0.86	0.0505						
3/10/2021				0.000216	<0.000203	0.00045	0.00033	
3/15/2021								0.000125 (J)
3/16/2021			0.0045					
8/17/2021	0.937	0.0509	0.00514					
8/18/2021								0.00016 (J)
8/24/2021					7E-05 (J)	0.00024	0.00028	
8/25/2021				0.00014 (J)				
3/28/2022			0.00381		<0.000203			
3/29/2022							0.00026	
3/30/2022				0.00017 (J)				
4/4/2022	0.861					0.00033		0.00011 (J)
4/6/2022		0.049						

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			0.00331					
10/17/2022		0.0475		0.000217	0.000111 (J)	0.000297		
10/18/2022	0.897						0.000434	
10/19/2022								0.000107 (J)
5/16/2023					<0.000203	0.000269		
5/17/2023	1.06		0.00431					
5/22/2023		0.0491						
5/30/2023				<0.000203			0.000217	<0.000203

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				0.00668				
4/12/2016				0.00827				
6/1/2016				0.00768				
8/15/2016				0.00798				
8/16/2016			0.00199 (J)		<0.000203	0.00185 (J)	<0.000203	0.00122 (J)
8/17/2016	<0.000203	<0.000203						
9/19/2016						0.00121 (J)	<0.000203	<0.000203
9/20/2016	<0.000203	<0.000203	0.00155 (J)		<0.000203			
10/11/2016			0.00231 (J)	0.008	<0.000203	0.00111 (J)	<0.000203	<0.000203
10/12/2016	<0.000203	<0.000203						
11/14/2016						<0.000203	<0.000203	<0.000203
11/15/2016	<0.000203	<0.000203	0.0044 (J)		<0.000203			
1/3/2017						<0.000203	<0.000203	<0.000203
1/4/2017	<0.000203	<0.000203	0.00123 (J)		<0.000203			
1/23/2017	<0.000203				<0.000203			
1/24/2017		<0.000203		0.00722		<0.000203	<0.000203	
1/25/2017								<0.000203
1/26/2017			0.00169 (J)					
5/9/2017	<0.000203	<0.000203	<0.000203	0.00766	<0.000203			
5/10/2017						<0.000203	<0.000203	<0.000203
6/27/2017	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
6/28/2017				0.00745				
2/27/2018	<0.000203	<0.000203	<0.000203	0.00699	<0.000203	<0.000203	<0.000203	<0.000203
6/4/2018				0.00731				
6/5/2018	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
11/5/2018							<0.000203	
11/6/2018	<0.000203	<0.000203	<0.000203	0.00685	<0.000203	<0.000203		<0.000203
3/26/2019	<0.000203	<0.000203	<0.000203		<0.000203			
3/27/2019				0.00596		<0.000203	<0.000203	<0.000203
9/9/2019				0.00806				
9/11/2019	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
4/20/2020				0.00751				
4/21/2020	<0.000203	<0.000203	<0.000203		<0.000203			
4/22/2020						<0.000203	<0.000203	<0.000203
8/11/2020						<0.000203		
8/12/2020							<0.000203	<0.000203
8/17/2020				0.00909				
8/18/2020	<0.000203	<0.000203	<0.000203		<0.000203			
3/15/2021	<0.000203	<0.000203	<0.000203		<0.000203	0.000111 (J)	0.000142 (J)	<0.000203
3/16/2021				0.0112				
8/17/2021				0.0119				
8/18/2021	<0.000203	9E-05 (J)	9E-05 (J)		<0.000203			
8/23/2021						<0.000203	0.00019 (J)	<0.000203
3/28/2022	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	0.00015 (J)
4/5/2022				0.01				
10/5/2022				0.0119		<0.000203	<0.000203	8.1E-05 (J)
10/19/2022	<0.000203	<0.000203	<0.000203		<0.000203			
5/17/2023				0.0116				
5/22/2023							<0.000203	0.000242
5/23/2023						<0.000203		
5/30/2023	<0.000203	<0.000203	<0.000203		<0.000203			



# Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.000203			
1/15/2019				<0.000203		0.0514	<0.000203	0.002 (J)
1/16/2019		<0.000203						
1/17/2019	<0.000203							
1/30/2019			0.0034 (J)					
9/10/2019	<0.000203						<0.000203	
9/11/2019		<0.000203	0.00222 (J)		<0.000203	0.053		0.00208 (J)
4/20/2020							<0.000203	
4/21/2020		<0.000203						
4/22/2020	<0.000203		0.00168 (J)	0.00768	<0.000203	0.0533		
4/29/2020								0.00182 (J)
8/11/2020			0.00223 (J)			0.0635		
8/12/2020	<0.000203						<0.000203	
8/18/2020		<0.000203						0.00171 (J)
8/19/2020				0.00618	<0.000203			
3/9/2021			0.00291			0.0697		
3/10/2021					<0.000203		0.000443	
3/15/2021	0.000158 (J)							0.00174
3/16/2021		0.0001 (J)		0.00685				
8/23/2021	0.00042							
8/24/2021		0.0001 (J)	0.00235	0.00811	0.00012 (J)	0.069		
8/25/2021							0.00043	0.00182
3/28/2022	0.00013 (J)							
3/29/2022				0.011				
3/30/2022			0.00263		9E-05 (J)		0.00027	
4/6/2022		0.00013 (J)				0.0524		0.00197
10/5/2022							0.000232	
10/17/2022		0.000174 (J)	0.00202	0.00335				
10/18/2022					0.000208	0.0603		0.00204
10/19/2022	9.6E-05 (J)							
5/22/2023			0.00211					
5/23/2023		<0.000203		0.00924	0.000132 (J)			
5/24/2023						0.0595		
5/31/2023	<0.000203						0.000308	0.00185

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	0.00372 (J)							
1/16/2019		0.00816	<0.000203					
9/11/2019	0.00583	0.0124	0.00269 (J)					
4/20/2020			0.00215 (J)	0.00153 (J)				
4/21/2020	0.00417 (J)	0.0101					0.0021 (J)	<0.000203
5/28/2020						<0.000203		
7/6/2020					<0.000203			
8/11/2020					<0.000203	<0.000203		
8/12/2020			0.00197 (J)					
8/17/2020				<0.000203			<0.000203	
8/19/2020	0.00445 (J)	0.0103						<0.000203
3/8/2021					0.000339	0.000152 (J)		
3/9/2021	0.00343	0.0117						
3/10/2021			0.00172	0.00147			0.000557	0.000592
8/17/2021					0.00027	0.00014 (J)		
8/18/2021	0.00456	0.0116		0.00143			0.00025	0.00074
8/23/2021			0.00263					
3/23/2022					0.00017 (J)	<0.000203		
3/29/2022				0.00106				
3/30/2022							0.00014 (J)	0.00041
4/4/2022			0.00187					
4/6/2022	0.00515	0.011						
10/4/2022					0.000268	<0.000203		
10/5/2022			0.00171					
10/18/2022				0.00088			0.000136 (J)	
10/19/2022	0.00487	0.0113						0.00044
5/16/2023			0.002					
5/17/2023					0.000287			
5/22/2023				0.000837		<0.000203		
5/24/2023		0.0113						
5/30/2023	0.00455						<0.000203	0.000469

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.353							
4/12/2016	0.402							
5/31/2016	0.33							
8/17/2016	0.369							
10/11/2016	0.378							
1/24/2017	0.386							
5/9/2017	0.406							
6/28/2017	0.353							
2/27/2018	0.425							
6/5/2018	0.454							
11/6/2018	0.432							
3/27/2019	0.455							
9/11/2019	0.406							
4/20/2020				0.0806	0.41		0.0375	
4/21/2020	0.42							
5/28/2020		<0.000203				<0.000203		0.00208 (J)
7/6/2020			<0.000203					
8/11/2020		<0.000203	<0.000203	0.0869		<0.000203		<0.000203
8/12/2020	0.415				0.467		0.0467	
3/8/2021		0.000267	0.00027					
3/9/2021						0.00013 (J)		0.00103
3/10/2021				0.213	0.45		0.0196	
3/16/2021	0.473							
8/16/2021			0.00014 (J)					
8/17/2021		0.00032				9E-05 (J)		0.0007
8/23/2021	0.368			0.225	0.454		0.029	
3/23/2022		0.00014 (J)	0.00026			<0.000203		0.00082
4/4/2022	0.432							
4/5/2022					0.401		0.00687	
4/6/2022				0.229				
10/3/2022			0.000144 (J)					
10/4/2022		0.000164 (J)				0.000103 (J)		0.000935
10/5/2022					0.425		0.0177	
10/17/2022	0.366			0.342				
5/15/2023			0.000223					
5/17/2023	0.405							
5/23/2023		0.00025			0.389	0.000116 (J)	0.00126	0.000656
5/30/2023				0.242				

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.000203
2/17/2016	<0.000203						<0.000203	
4/12/2016	<0.000203							
4/13/2016							<0.000203	<0.000203
5/31/2016	<0.000203						<0.000203	
6/1/2016								<0.000203
8/17/2016	<0.000203						<0.000203	<0.000203
10/11/2016	<0.000203							
10/12/2016							<0.000203	<0.000203
1/24/2017	<0.000203							
1/25/2017							<0.000203	<0.000203
5/10/2017	<0.000203						<0.000203	<0.000203
6/28/2017	<0.000203						<0.000203	<0.000203
2/27/2018	<0.000203						<0.000203	<0.000203
6/5/2018	<0.000203						<0.000203	<0.000203
11/7/2018	<0.000203						<0.000203	<0.000203
3/26/2019	<0.000203						<0.000203	<0.000203
9/10/2019	<0.000203						<0.000203	<0.000203
4/21/2020	<0.000203						<0.000203	<0.000203
8/19/2020	<0.000203						<0.000203	<0.000203
3/9/2021	0.000303						0.00015 (J)	0.000248
8/17/2021		<0.000203	0.00039	0.00026	0.00012 (J)	0.00051		
8/24/2021	0.00028						0.0001 (J)	0.00027
3/23/2022		<0.000203	0.00025	0.00011 (J)	<0.000203	0.0003		
3/29/2022	0.00013 (J)						8E-05 (J)	0.00015 (J)
10/4/2022		<0.000203	0.000353	0.000145 (J)	0.000133 (J)	0.000267		
10/18/2022	0.000182 (J)						0.000148 (J)	0.000261
5/17/2023						0.000335		
5/22/2023				0.000284	<0.000203			
5/23/2023		<0.000203	0.000278					
5/30/2023	<0.000203						<0.000203	0.000274

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	0.00507	
4/13/2016	0.00556	
6/1/2016	0.00625	
8/17/2016	0.00648	
10/12/2016	0.00772	
1/25/2017	0.00728	
5/10/2017	0.00818	
6/28/2017	0.00718	
2/27/2018	0.00946	
6/5/2018	0.00921	
11/7/2018	0.0098	
3/26/2019	0.00969	
9/10/2019	0.0108	0.00176 (J)
4/20/2020		0.0029 (J)
4/21/2020	0.0102	
8/17/2020		0.00191 (J)
8/18/2020	0.0108	
3/9/2021	0.0105	
3/10/2021		0.00597
8/17/2021		0.0021
8/24/2021	0.00695	
3/29/2022	0.00316	
4/5/2022		0.00404
10/5/2022		0.00368
10/18/2022	0.00787	
5/17/2023		0.00189
5/30/2023	0.0107	

# Time Series

Constituent: Barium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.179		0.0231	0.113	0.0447		
2/17/2016	0.0364		0.105				0.022	0.0368
4/12/2016					0.0912	0.043	0.0242	
4/13/2016	0.0344	0.185	0.106	0.02				0.044
5/31/2016		0.158	0.0907	0.0175	0.0963	0.0383	0.0224	
6/1/2016	0.0353							0.0357
8/15/2016	0.0395							0.0377
8/16/2016		0.16	0.0989	0.0182	0.0878		0.0243	
8/17/2016						0.0332		
10/11/2016	0.0455						0.0291	
10/12/2016		0.17	0.113	0.0221	0.112	0.0454		0.0431
1/24/2017	0.0428						0.0223	0.0418
1/25/2017		0.156	0.103	0.0187	0.114	0.0567		
5/9/2017	0.0399		0.125	0.0232	0.1	0.069		
5/10/2017		0.169					0.0281	0.0449
6/27/2017	0.0348						0.0223	0.042
6/28/2017		0.144	0.103	0.0178	0.0874	0.0764		
2/27/2018	0.0398	0.172	0.0718			0.0908		
2/28/2018				0.0197	0.0984		0.0271	0.0595
6/4/2018	0.0314							
6/5/2018		0.173	0.0643				0.0269	0.0471
6/6/2018				0.0204	0.0951	0.064		
11/5/2018			0.0588	0.0255	0.113			
11/6/2018	0.0348						0.0271	0.0574
11/7/2018		0.171				0.0575		
3/26/2019				0.0218	0.109		0.0282	0.0626
3/27/2019	0.0286	0.167	0.0678			0.0768		
9/10/2019	0.0283	0.199	0.0651	0.0233		0.0685	0.0348	0.0754
9/11/2019					0.275			
4/20/2020					0.104		0.0338	0.0921
4/21/2020	0.0206			0.0325		0.102		
4/22/2020		0.186	0.0967					
8/11/2020						0.0806		0.0948
8/12/2020							0.0352	
8/17/2020	0.0218							
8/18/2020		0.223	0.0866	0.021	0.199			
3/9/2021						0.125		0.102
3/10/2021			0.0637	0.0373			0.0365	
3/15/2021		0.261			0.0699			
3/16/2021	0.024							
8/17/2021	0.0211							0.101
8/24/2021		0.287						
8/25/2021			0.104	0.0323	0.114	0.11	0.0402	
3/29/2022				0.0355			0.0381	
3/30/2022			0.0485					
4/4/2022	0.0235	0.26				0.103		
4/6/2022					0.0701			0.103
10/5/2022	0.0256							
10/17/2022			0.0611	0.0301	0.119			
10/18/2022		0.248				0.103	0.036	0.103
5/16/2023	0.0336							
5/17/2023			0.0705					

# Time Series

Constituent: Barium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							0.0433	
5/24/2023		0.269				0.127		
5/30/2023				0.0309				
5/31/2023					0.0536			0.119

# Time Series

Constituent: Barium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				0.0379				
2/17/2016	0.0402	0.12	0.0311		0.0285	0.0305	0.0895	
4/12/2016		0.131			0.035	0.0312	0.0966	
4/13/2016	0.0637		0.0334	0.0291				
6/1/2016	0.0786	0.114	0.029	0.0254	0.0328	0.0298	0.0872	
8/15/2016	0.0634	0.113	0.0317					
8/16/2016				0.0385	0.033	0.0308		
8/17/2016							0.0875	0.0476
9/20/2016								0.0436
10/11/2016			0.0339		0.0352	0.042	0.1	
10/12/2016	0.0995	0.126		0.0486				0.0397
11/15/2016								0.0369
1/4/2017								0.0518
1/23/2017								0.0662
1/24/2017	0.117	0.126	0.0276		0.0286	0.0446	0.0856	
1/25/2017				0.0371				
5/9/2017			0.0285	0.0454	0.0257		0.093	0.0691
5/10/2017	0.158	0.138				0.0568		
6/27/2017	0.139	0.12			0.0246			0.0603
6/28/2017			0.0273	0.0352		0.0663	0.0829	
2/27/2018			0.0292		0.0287	0.101		0.0386
2/28/2018	0.199	0.143		0.0376			0.0958	
6/4/2018			0.0298					
6/5/2018	0.149	0.128			0.0279	0.108		0.0356
6/6/2018				0.0355			0.0892	
11/5/2018				0.0509				
11/6/2018	0.202	0.109	0.0286				0.0807	0.0387
11/7/2018					0.0281	0.1		
3/26/2019	0.242	0.117		0.047	0.0295	0.0978		0.0419
3/27/2019			0.0311				0.0901	
9/9/2019	0.319	0.101	0.035					
9/10/2019				0.0568	0.0338	0.0967	0.101	
9/11/2019								0.0468
4/21/2020	0.306	0.0926	0.0335	0.0763	0.0296			0.0439
4/22/2020						0.0738	0.11	
8/11/2020	0.29						0.111	
8/12/2020		0.0815			0.0311	0.0788		
8/17/2020			0.0376					
8/18/2020				0.0517				0.0409
3/9/2021	0.352	0.0849						
3/10/2021				0.111	0.0305	0.0873	0.0797	
3/15/2021								0.0351
3/16/2021			0.033					
8/17/2021	0.254	0.0763	0.0347					
8/18/2021								0.0311
8/24/2021					0.0311	0.07	0.0988	
8/25/2021				0.0865				
3/28/2022			0.0301		0.0264			
3/29/2022							0.0717	
3/30/2022				0.112				
4/4/2022	0.27					0.0635		0.0335
4/6/2022		0.0769						



# Time Series

Constituent: Barium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			0.0344					
10/17/2022		0.07		0.0774	0.0286	0.0511		
10/18/2022	0.253						0.0704	
10/19/2022								0.034
5/16/2023					0.0322	0.0673		
5/17/2023	0.291		0.0298					
5/22/2023		0.0709						
5/30/2023				0.0604			0.0824	0.0393

# Time Series

Constituent: Barium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				0.0896				
4/12/2016				0.0994				
6/1/2016				0.104				
8/15/2016				0.102				
8/16/2016			0.0527		0.0376	0.0226	0.0134	0.0304
8/17/2016	0.0803	0.336						
9/19/2016						0.0202	0.0125	0.0215
9/20/2016	0.0679	0.341	0.0698		0.0348			
10/11/2016			0.0799	0.11	0.0396	0.0219	0.0128	0.0236
10/12/2016	0.0644	0.347						
11/14/2016						0.0215	0.0129	0.0206
11/15/2016	0.0628	0.332	0.0479		0.0359			
1/3/2017						0.019	0.0116	0.0409
1/4/2017	0.0477	0.299	0.0513		0.0238			
1/23/2017	0.0482				0.029			
1/24/2017		0.264		0.0942		0.0167	0.0118	
1/25/2017								0.0455
1/26/2017			0.0674					
5/9/2017	0.0611	0.322	0.0836	0.105	0.0409			
5/10/2017						0.0246	0.0142	0.0798
6/27/2017	0.0492	0.278	0.0661		0.0303	0.0238	0.0127	0.0679
6/28/2017				0.104				
2/27/2018	0.0463	0.312	0.05	0.0989	0.0383	0.0231	0.0135	0.0856
6/4/2018				0.0936				
6/5/2018	0.0298	0.243	0.0433		0.0633	0.0228	0.0126	0.0875
11/5/2018							0.0123	
11/6/2018	0.0582	0.249	0.0379	0.0936	0.0463	0.0211		0.0726
3/26/2019	0.0499	0.232	0.0348		0.101			
3/27/2019				0.0951		0.025	0.0134	0.0912
9/9/2019				0.111				
9/11/2019	0.0574	0.246	0.0404		0.0855	0.0267	0.0147	0.0824
4/20/2020				0.109				
4/21/2020	0.0827	0.219	0.0542		0.0485			
4/22/2020						0.0285	0.0133	0.102
8/11/2020						0.0264		
8/12/2020							0.0127	0.0601
8/17/2020				0.139				
8/18/2020	0.0734	0.211	0.0442		0.0529			
3/15/2021	0.069	0.222	0.0545		0.0462	0.0316	0.0692	0.0144
3/16/2021				0.159				
8/17/2021				0.15				
8/18/2021	0.0607	0.198	0.0554		0.0329			
8/23/2021						0.0317	0.0764	0.0141
3/28/2022	0.0625	0.186	0.0337		0.0286	0.0325	0.0132	0.0773
4/5/2022				0.145				
10/5/2022				0.138		0.0283	0.0133	0.0665
10/19/2022	0.0608	0.183	0.0379		0.0246			
5/17/2023				0.153				
5/22/2023							0.0152	0.102
5/23/2023						0.0361		
5/30/2023	0.0747	0.179	0.0452		0.0256			

# Time Series

Constituent: Barium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.0814			
1/15/2019				0.0454		0.185	0.0361	0.13
1/16/2019		0.0492						
1/17/2019	0.0714							
1/30/2019			0.00776 (J)					
9/10/2019	0.0554						0.0294	
9/11/2019		0.0369	0.00323 (J)		0.0581	0.173		0.1
4/20/2020							0.0282	
4/21/2020		0.0473						
4/22/2020	0.0578		0.0027 (J)	0.0248	0.0607	0.192		
4/29/2020								0.0998
8/11/2020			0.00393 (J)			0.177		
8/12/2020	0.0467						0.0295	
8/18/2020		0.033						0.0879
8/19/2020				0.0591	0.0678			
3/9/2021			0.00297			0.206		
3/10/2021					0.0719		0.0322	
3/15/2021	0.0532							0.116
3/16/2021		0.04		0.0347				
8/23/2021	0.0478							
8/24/2021		0.0336	0.00261	0.037	0.0872	0.213		
8/25/2021							0.0296	0.128
3/28/2022	0.0481							
3/29/2022				0.0235				
3/30/2022			0.00372		0.0702		0.0277	
4/6/2022		0.0385				0.178		0.145
10/5/2022							0.0241	
10/17/2022		0.0386	0.00282	0.106				
10/18/2022					0.0956	0.21		0.119
10/19/2022	0.0444							
5/22/2023			0.0027					
5/23/2023		0.0394		0.0845	0.103			
5/24/2023						0.249		
5/31/2023	0.0539						0.025	0.124

# Time Series

Constituent: Barium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	0.162							
1/16/2019		0.12	0.131					
9/11/2019	0.123	0.127	0.0797					
4/20/2020			0.0594	0.0898				
4/21/2020	0.108	0.156					0.028	0.0437
5/28/2020						0.0267		
7/6/2020					0.0613			
8/11/2020					0.0653	0.0204		
8/12/2020			0.0589					
8/17/2020				0.0632			0.027	
8/19/2020	0.119	0.168						0.0394
3/8/2021					0.0523	0.0229		
3/9/2021	0.135	0.211						
3/10/2021			0.064	0.0543			0.0281	0.0406
8/17/2021					0.0563	0.0297		
8/18/2021	0.145	0.187		0.0942			0.0239	0.0492
8/23/2021			0.0596					
3/23/2022					0.0595	0.0332		
3/29/2022				0.0534				
3/30/2022							0.0253	0.0642
4/4/2022			0.0482					
4/6/2022	0.147	0.168						
10/4/2022					0.0574	0.0238		
10/5/2022			0.0475					
10/18/2022				0.0372			0.0269	
10/19/2022	0.154	0.164						0.0545
5/16/2023			0.0481					
5/17/2023					0.0578			
5/22/2023				0.0532		0.0229		
5/24/2023		0.162						
5/30/2023	0.133						0.024	0.0497

# Time Series

Constituent: Barium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.397							
4/12/2016	0.434							
5/31/2016	0.354							
8/17/2016	0.397							
10/11/2016	0.485							
1/24/2017	0.472							
5/9/2017	0.512							
6/28/2017	0.48							
2/27/2018	0.269							
6/5/2018	0.27							
11/6/2018	0.306							
3/27/2019	0.251							
9/11/2019	0.323							
4/20/2020				0.278	0.259		0.0771	
4/21/2020	0.138							
5/28/2020		0.0701				0.0389		0.127
7/6/2020			0.129					
8/11/2020		0.064	0.116	0.246		0.0337		0.0909
8/12/2020	0.134				0.221		0.0796	
3/8/2021		0.0685	0.131					
3/9/2021						0.0404		0.0795
3/10/2021				0.393	0.19		0.103	
3/16/2021	0.143							
8/16/2021			0.129					
8/17/2021		0.0707				0.0317		0.0669
8/23/2021	0.139			0.377	0.2		0.084	
3/23/2022		0.0762	0.149			0.0352		0.0627
4/4/2022	0.131							
4/5/2022					0.18		0.088	
4/6/2022				0.382				
10/3/2022			0.165					
10/4/2022		0.0696				0.0351		0.0602
10/5/2022					0.182		0.0719	
10/17/2022	0.134			0.318				
5/15/2023			0.203					
5/17/2023	0.136							
5/23/2023		0.0707			0.244	0.0302	0.128	0.0543
5/30/2023				0.391				

# Time Series

Constituent: Barium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								0.117
2/17/2016	0.0455						0.0772	
4/12/2016	0.0455							
4/13/2016							0.0886	0.113
5/31/2016	0.0407						0.0823	
6/1/2016								0.105
8/17/2016	0.0434						0.0789	0.105
10/11/2016	0.0514							
10/12/2016							0.0883	0.111
1/24/2017	0.0476							
1/25/2017							0.067	0.0963
5/10/2017	0.0543						0.0644	0.103
6/28/2017	0.0402						0.0582	0.0935
2/27/2018	0.0463						0.0669	0.0808
6/5/2018	0.051						0.0672	0.0789
11/7/2018	0.0527						0.0739	0.0855
3/26/2019	0.0682						0.0796	0.0911
9/10/2019	0.0789						0.0887	0.11
4/21/2020	0.0728						0.0762	0.116
8/19/2020	0.0784						0.0816	0.119
3/9/2021	0.0664						0.083	0.15
8/17/2021		0.0379	0.0383	0.0727	0.0597	0.0762		
8/24/2021	0.0737						0.0782	0.122
3/23/2022		0.0338	0.0411	0.0807	0.0498	0.094		
3/29/2022	0.0614						0.0639	0.104
10/4/2022		0.04	0.0413	0.0737	0.0548	0.0681		
10/18/2022	0.0619						0.084	0.107
5/17/2023						0.0753		
5/22/2023				0.0767	0.0524			
5/23/2023		0.042	0.0436					
5/30/2023	0.0665						0.0795	0.136

# Time Series

Constituent: Barium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	0.0637	
4/13/2016	0.0552	
6/1/2016	0.0555	
8/17/2016	0.0745	
10/12/2016	0.0897	
1/25/2017	0.0864	
5/10/2017	0.105	
6/28/2017	0.0897	
2/27/2018	0.118	
6/5/2018	0.111	
11/7/2018	0.141	
3/26/2019	0.175	
9/10/2019	0.206	0.0787
4/20/2020		0.0801
4/21/2020	0.175	
8/17/2020		0.0718
8/18/2020	0.165	
3/9/2021	0.16	
3/10/2021		0.0759
8/17/2021		0.0781
8/24/2021	0.168	
3/29/2022	0.139	
4/5/2022		0.0665
10/5/2022		0.0698
10/18/2022	0.147	
5/17/2023		0.0633
5/30/2023	0.15	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.001015		<0.001015	<0.001015	<0.001015		
2/17/2016	<0.001015		<0.001015				<0.001015	<0.001015
4/12/2016					<0.001015	<0.001015	<0.001015	
4/13/2016	<0.001015	<0.001015	<0.001015	<0.001015				<0.001015
5/31/2016		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
6/1/2016	<0.001015							<0.001015
8/15/2016	<0.001015							<0.001015
8/16/2016		<0.001015	<0.001015	<0.001015	<0.001015		<0.001015	
8/17/2016						<0.001015		
10/11/2016	<0.001015						<0.001015	
10/12/2016		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
1/24/2017	<0.001015						<0.001015	<0.001015
1/25/2017		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
5/9/2017	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015		
5/10/2017		<0.001015					<0.001015	<0.001015
6/27/2017	<0.001015						<0.001015	<0.001015
6/28/2017		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
2/27/2018	<0.001015	<0.001015	<0.001015			<0.001015		
2/28/2018				<0.001015	<0.001015		<0.001015	<0.001015
6/4/2018	<0.001015							
6/5/2018		<0.001015	<0.001015				<0.001015	<0.001015
6/6/2018				<0.001015	<0.001015	<0.001015		
11/5/2018			<0.001015	<0.001015	<0.001015			
11/6/2018	<0.001015						<0.001015	<0.001015
11/7/2018		<0.001015				<0.001015		
3/26/2019				<0.001015	<0.001015		<0.001015	<0.001015
3/27/2019	<0.001015	<0.001015	<0.001015			<0.001015		
9/10/2019	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015
9/11/2019					<0.001015			
4/20/2020					<0.001015		<0.001015	<0.001015
4/21/2020	<0.001015			<0.001015		<0.001015		
4/22/2020		<0.001015	<0.001015					
8/11/2020						<0.001015		<0.001015
8/12/2020							<0.001015	
8/17/2020	<0.001015							
8/18/2020		<0.001015	<0.001015	<0.001015	<0.001015			
3/9/2021						<0.001015		<0.001015
3/10/2021			<0.001015	<0.001015			<0.001015	
3/15/2021		<0.001015			<0.001015			
3/16/2021	<0.001015							
8/17/2021	<0.001015							<0.001015
8/24/2021		<0.001015						
8/25/2021			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
3/29/2022				<0.001015			<0.001015	
3/30/2022			<0.001015					
4/4/2022	<0.001015	<0.001015				<0.001015		
4/6/2022					<0.001015			<0.001015
10/5/2022	<0.001015							
10/17/2022			<0.001015	<0.001015	<0.001015			
10/18/2022		<0.001015				<0.001015	<0.001015	<0.001015
5/16/2023	<0.001015							
5/17/2023			<0.001015					



# Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							<0.001015	
5/24/2023		<0.001015				<0.001015		
5/30/2023				<0.001015				
5/31/2023					<0.001015			<0.001015

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.001015				
2/17/2016	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	
4/12/2016		<0.001015			<0.001015	<0.001015	<0.001015	
4/13/2016	<0.001015		<0.001015	<0.001015				
6/1/2016	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
8/15/2016	<0.001015	<0.001015	<0.001015					
8/16/2016				<0.001015	<0.001015	<0.001015		
8/17/2016							<0.001015	0.00161 (J)
9/20/2016								0.00155 (J)
10/11/2016			<0.001015		<0.001015	<0.001015	0.000715 (J)	
10/12/2016	<0.001015	<0.001015		<0.001015				0.00138 (J)
11/15/2016								0.00109 (J)
1/4/2017								0.00141 (J)
1/23/2017								0.00171 (J)
1/24/2017	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	
1/25/2017				<0.001015				
5/9/2017			<0.001015	<0.001015	<0.001015		<0.001015	0.00226 (J)
5/10/2017	<0.001015	<0.001015				<0.001015		
6/27/2017	<0.001015	<0.001015			<0.001015			0.0017 (J)
6/28/2017			<0.001015	<0.001015		<0.001015	<0.001015	
2/27/2018			<0.001015		<0.001015	<0.001015		0.00147 (J)
2/28/2018	<0.001015	<0.001015		<0.001015			<0.001015	
6/4/2018			<0.001015					
6/5/2018	<0.001015	<0.001015			<0.001015	<0.001015		0.000821 (J)
6/6/2018				<0.001015			<0.001015	
11/5/2018				<0.001015				
11/6/2018	<0.001015	<0.001015	<0.001015				<0.001015	0.000757 (J)
11/7/2018					<0.001015	<0.001015		
3/26/2019	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015		0.00092 (J)
3/27/2019			<0.001015				<0.001015	
9/9/2019	<0.001015	<0.001015	<0.001015					
9/10/2019				<0.001015	<0.001015	<0.001015	<0.001015	
9/11/2019								<0.001015
4/21/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015			0.000756 (J)
4/22/2020						<0.001015	<0.001015	
8/11/2020	<0.001015						<0.001015	
8/12/2020		<0.001015			<0.001015	<0.001015		
8/17/2020			<0.001015					
8/18/2020				<0.001015				0.000828 (J)
3/9/2021	<0.001015	<0.001015						
3/10/2021				<0.001015	<0.001015	<0.001015	<0.001015	
3/15/2021								0.000453 (J)
3/16/2021			<0.001015					
8/17/2021	<0.001015	<0.001015	<0.001015					
8/18/2021								0.00041 (J)
8/24/2021					<0.001015	<0.001015	<0.001015	
8/25/2021				<0.001015				
3/28/2022			<0.001015		<0.001015			
3/29/2022							<0.001015	
3/30/2022				<0.001015				
4/4/2022	<0.001015					<0.001015		<0.001015
4/6/2022		<0.001015						

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			<0.001015					
10/17/2022		<0.001015		<0.001015	<0.001015	<0.001015		
10/18/2022	<0.001015						<0.001015	
10/19/2022								<0.001015
5/16/2023					<0.001015	<0.001015		
5/17/2023	<0.001015		<0.001015					
5/22/2023		<0.001015						
5/30/2023				<0.001015			<0.001015	<0.001015

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.001015				
4/12/2016				<0.001015				
6/1/2016				<0.001015				
8/15/2016				<0.001015				
8/16/2016			<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
8/17/2016	<0.001015	<0.001015						
9/19/2016						<0.001015	<0.001015	<0.001015
9/20/2016	<0.001015	<0.001015	<0.001015		<0.001015			
10/11/2016			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/12/2016	<0.001015	<0.001015						
11/14/2016						<0.001015	<0.001015	<0.001015
11/15/2016	<0.001015	<0.001015	<0.001015		<0.001015			
1/3/2017						<0.001015	<0.001015	<0.001015
1/4/2017	<0.001015	<0.001015	<0.001015		<0.001015			
1/23/2017	<0.001015				<0.001015			
1/24/2017		<0.001015		<0.001015		<0.001015	<0.001015	
1/25/2017								<0.001015
1/26/2017			<0.001015					
5/9/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015			
5/10/2017						<0.001015	<0.001015	<0.001015
6/27/2017	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
6/28/2017				<0.001015				
2/27/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/4/2018				<0.001015				
6/5/2018	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
11/5/2018							<0.001015	
11/6/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
3/26/2019	<0.001015	<0.001015	<0.001015		<0.001015			
3/27/2019				<0.001015		<0.001015	<0.001015	<0.001015
9/9/2019				<0.001015				
9/11/2019	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
4/20/2020				<0.001015				
4/21/2020	<0.001015	<0.001015	<0.001015		<0.001015			
4/22/2020						<0.001015	<0.001015	<0.001015
8/11/2020						<0.001015		
8/12/2020							<0.001015	<0.001015
8/17/2020				<0.001015				
8/18/2020	<0.001015	<0.001015	<0.001015		<0.001015			
3/15/2021	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
3/16/2021				<0.001015				
8/17/2021				<0.001015				
8/18/2021	<0.001015	<0.001015	<0.001015		<0.001015			
8/23/2021						<0.001015	<0.001015	<0.001015
3/28/2022	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
4/5/2022				<0.001015				
10/5/2022				<0.001015		<0.001015	<0.001015	<0.001015
10/19/2022	<0.001015	<0.001015	<0.001015		<0.001015			
5/17/2023				<0.001015				
5/22/2023							<0.001015	<0.001015
5/23/2023						<0.001015		
5/30/2023	<0.001015	<0.001015	<0.001015		<0.001015			

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.001015			
1/15/2019				<0.001015		<0.001015	<0.001015	<0.001015
1/16/2019		<0.001015						
1/17/2019	<0.001015							
1/30/2019			<0.001015					
9/10/2019	<0.001015						<0.001015	
9/11/2019		<0.001015	<0.001015		<0.001015	<0.001015		<0.001015
4/20/2020							<0.001015	
4/21/2020		<0.001015						
4/22/2020	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015		
4/29/2020								<0.001015
8/11/2020			<0.001015			<0.001015		
8/12/2020	<0.001015						<0.001015	
8/18/2020		<0.001015						<0.001015
8/19/2020				<0.001015	<0.001015			
3/9/2021			<0.001015			<0.001015		
3/10/2021					<0.001015		<0.001015	
3/15/2021	<0.001015							<0.001015
3/16/2021		<0.001015		<0.001015				
8/23/2021	<0.001015							
8/24/2021		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
8/25/2021							<0.001015	<0.001015
3/28/2022	<0.001015							
3/29/2022				<0.001015				
3/30/2022			<0.001015		<0.001015		<0.001015	
4/6/2022		<0.001015				<0.001015		<0.001015
10/5/2022							<0.001015	
10/17/2022		<0.001015	<0.001015	<0.001015				
10/18/2022					<0.001015	<0.001015		<0.001015
10/19/2022	<0.001015							
5/22/2023			<0.001015					
5/23/2023		<0.001015		<0.001015	<0.001015			
5/24/2023						<0.001015		
5/31/2023	<0.001015						<0.001015	<0.001015

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.001015							
1/16/2019		<0.001015	<0.001015					
9/11/2019	<0.001015	<0.001015	<0.001015					
4/20/2020			<0.001015	<0.001015				
4/21/2020	<0.001015	<0.001015					<0.001015	<0.001015
5/28/2020						<0.001015		
7/6/2020					<0.001015			
8/11/2020					<0.001015	<0.001015		
8/12/2020			<0.001015					
8/17/2020				<0.001015			<0.001015	
8/19/2020	<0.001015	<0.001015						<0.001015
3/8/2021					<0.001015	<0.001015		
3/9/2021	<0.001015	<0.001015						
3/10/2021			<0.001015	<0.001015			<0.001015	<0.001015
8/17/2021					<0.001015	<0.001015		
8/18/2021	<0.001015	<0.001015		<0.001015			<0.001015	<0.001015
8/23/2021			<0.001015					
3/23/2022					<0.001015	<0.001015		
3/29/2022				<0.001015				
3/30/2022							<0.001015	<0.001015
4/4/2022			<0.001015					
4/6/2022	<0.001015	<0.001015						
10/4/2022					<0.001015	<0.001015		
10/5/2022			<0.001015					
10/18/2022				<0.001015			<0.001015	
10/19/2022	<0.001015	<0.001015						<0.001015
5/16/2023			<0.001015					
5/17/2023					<0.001015			
5/22/2023				<0.001015		<0.001015		
5/24/2023		<0.001015						
5/30/2023	<0.001015						<0.001015	<0.001015

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.001015							
4/12/2016	<0.001015							
5/31/2016	<0.001015							
8/17/2016	<0.001015							
10/11/2016	<0.001015							
1/24/2017	<0.001015							
5/9/2017	<0.001015							
6/28/2017	<0.001015							
2/27/2018	<0.001015							
6/5/2018	<0.001015							
11/6/2018	<0.001015							
3/27/2019	<0.001015							
9/11/2019	<0.001015							
4/20/2020				<0.001015	<0.001015		<0.001015	
4/21/2020	<0.001015							
5/28/2020		<0.001015				<0.001015		0.000799 (J)
7/6/2020			<0.001015					
8/11/2020		<0.001015	<0.001015	<0.001015		<0.001015		<0.001015
8/12/2020	<0.001015				<0.001015		<0.001015	
3/8/2021		<0.001015	<0.001015					
3/9/2021						<0.001015		<0.001015
3/10/2021				<0.001015	<0.001015		<0.001015	
3/16/2021	<0.001015							
8/16/2021			<0.001015					
8/17/2021		<0.001015				<0.001015		<0.001015
8/23/2021	<0.001015			<0.001015	<0.001015		<0.001015	
3/23/2022		<0.001015	<0.001015			<0.001015		<0.001015
4/4/2022	<0.001015							
4/5/2022					<0.001015		<0.001015	
4/6/2022				<0.001015				
10/3/2022			<0.001015					
10/4/2022		<0.001015				<0.001015		<0.001015
10/5/2022					<0.001015		<0.001015	
10/17/2022	<0.001015			<0.001015				
5/15/2023			<0.001015					
5/17/2023	<0.001015							
5/23/2023		<0.001015			<0.001015	<0.001015	<0.001015	<0.001015
5/30/2023				<0.001015				

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.001015
2/17/2016	<0.001015						<0.001015	
4/12/2016	<0.001015							
4/13/2016							<0.001015	<0.001015
5/31/2016	<0.001015						<0.001015	
6/1/2016								<0.001015
8/17/2016	<0.001015						<0.001015	<0.001015
10/11/2016	<0.001015							
10/12/2016							<0.001015	<0.001015
1/24/2017	<0.001015							
1/25/2017							<0.001015	<0.001015
5/10/2017	<0.001015						<0.001015	<0.001015
6/28/2017	<0.001015						<0.001015	<0.001015
2/27/2018	<0.001015						<0.001015	<0.001015
6/5/2018	<0.001015						<0.001015	<0.001015
11/7/2018	<0.001015						<0.001015	<0.001015
3/26/2019	<0.001015						<0.001015	<0.001015
9/10/2019	<0.001015						<0.001015	<0.001015
4/21/2020	<0.001015						<0.001015	<0.001015
8/19/2020	<0.001015						<0.001015	<0.001015
3/9/2021	<0.001015						<0.001015	<0.001015
8/17/2021		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
8/24/2021	<0.001015						<0.001015	<0.001015
3/23/2022		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
3/29/2022	<0.001015						<0.001015	<0.001015
10/4/2022		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
10/18/2022	<0.001015						<0.001015	<0.001015
5/17/2023						<0.001015		
5/22/2023				<0.001015	<0.001015			
5/23/2023		<0.001015	<0.001015					
5/30/2023	<0.001015						<0.001015	<0.001015



# Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.001015	
4/13/2016	<0.001015	
6/1/2016	<0.001015	
8/17/2016	<0.001015	
10/12/2016	<0.001015	
1/25/2017	<0.001015	
5/10/2017	<0.001015	
6/28/2017	<0.001015	
2/27/2018	<0.001015	
6/5/2018	<0.001015	
11/7/2018	<0.001015	
3/26/2019	<0.001015	
9/10/2019	<0.001015	<0.001015
4/20/2020		<0.001015
4/21/2020	<0.001015	
8/17/2020		<0.001015
8/18/2020	<0.001015	
3/9/2021	<0.001015	
3/10/2021		<0.001015
8/17/2021		<0.001015
8/24/2021	<0.001015	
3/29/2022	<0.001015	
4/5/2022		<0.001015
10/5/2022		<0.001015
10/18/2022	<0.001015	
5/17/2023		<0.001015
5/30/2023	<0.001015	

# Time Series

Constituent: Boron (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		1.44		0.273	0.26	0.739		
2/17/2016	0.219		0.581				0.454	1.47
4/12/2016					0.26	0.733	0.444	
4/13/2016	0.211	0.373	0.61	0.276				1.48
5/31/2016		1.26	0.615	0.291	0.318	0.603	0.424	
6/1/2016	0.2							1.22
8/15/2016	0.211							1.31
8/16/2016		1.34	0.554	0.268	0.322		0.438	
8/17/2016						0.509		
10/11/2016	0.23						0.456	
10/12/2016		1.34	0.537	0.252	0.244	0.569		1.37
1/24/2017	0.218						0.458	1.38
1/25/2017		1.38	0.562	0.167	0.188	0.671		
5/9/2017	0.235		0.528	0.32	0.281	0.622		
5/10/2017		1.23					0.486	1.41
6/27/2017	0.206						0.454	1.43
6/28/2017		1.05	0.313	0.231	0.153	0.695		
8/29/2017		1.17	0.241	0.191	0.112	1		
8/30/2017	0.138						0.441	1.36
6/4/2018	0.242							
6/5/2018		1.31	0.311				0.543	1.36
6/6/2018				0.26	0.244	1.01		
11/5/2018			0.262	0.127	0.104			
11/6/2018	0.247						0.614	1.47
11/7/2018		1.26				0.908		
3/26/2019				0.111	0.213		0.697	1.38
3/27/2019	0.488	1.11	0.298			1.33		
9/10/2019	0.398	1.27	0.141	0.153		1.49	0.73	1.69
9/11/2019					0.535			
4/20/2020					0.642		0.791	1.83
4/21/2020	0.347			0.872		1.55		
4/22/2020		1.23	0.447					
8/11/2020						1.44		1.93
8/12/2020							0.813	
8/17/2020	0.496							
8/18/2020		1.37	0.358	0.748	0.501			
3/9/2021						1.81		1.94
3/10/2021			0.502	0.389			0.825	
3/15/2021		1.79			0.523			
3/16/2021	0.313							
8/17/2021	0.281							1.98
8/24/2021		1.93						
8/25/2021			0.601	0.393	0.438	1.33	0.83	
3/29/2022				0.416			0.848	
3/30/2022			0.472					
4/4/2022	0.269	1.92				1.89		
4/6/2022					0.26			2.17
10/5/2022	0.202							
10/17/2022			0.63	0.272	0.499			
10/18/2022		2.13				1.91	0.874	2.14
5/16/2023	0.187							
5/17/2023			0.691					

# Time Series

Constituent: Boron (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							0.935	
5/24/2023		2.3				1.82		
5/30/2023				0.306				
5/31/2023					0.263			2.09

# Time Series

Constituent: Boron (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				0.286				
2/17/2016	1.66	1.94	0.146		0.0271 (J)	<0.1015	0.0922 (J)	
4/12/2016		2.03			<0.1015	<0.1015	0.0935 (J)	
4/13/2016	1.64		0.125	0.26				
6/1/2016	1.66	1.74	0.114	0.283	<0.1015	<0.1015	0.0826 (J)	
8/15/2016	1.83	1.66	0.128					
8/16/2016				0.292	<0.1015	<0.1015		
8/17/2016							0.092 (J)	<0.1015
9/20/2016								<0.1015
10/11/2016			0.129		0.024 (J)	<0.1015	0.0976 (J)	
10/12/2016	2.12	1.77		0.254				<0.1015
11/15/2016								<0.1015
1/4/2017								<0.1015
1/23/2017								0.0217 (J)
1/24/2017	1.94	1.49	0.124		0.0333 (J)	<0.1015	0.0877 (J)	
1/25/2017				0.133				
5/9/2017			0.121	0.304	<0.1015		0.0953 (J)	<0.1015
5/10/2017	1.99	1.65				<0.1015		
6/27/2017	2.18	1.66				<0.1015		<0.1015
6/28/2017			0.111	0.243		<0.1015	0.0835 (J)	
8/29/2017				0.249	<0.1015	<0.1015	0.0914 (J)	<0.1015
8/30/2017	1.71	1.53	0.0915 (J)					
6/4/2018			0.134					
6/5/2018	1.76	1.36			<0.1015	<0.1015		<0.1015
6/6/2018				0.245			0.102	
11/5/2018				0.151				
11/6/2018	1.74	1.48	0.131				0.0995 (J)	<0.1015
11/7/2018					<0.1015	<0.1015		
3/26/2019	1.74	1.63		0.0834 (J)	<0.1015	<0.1015		<0.1015
3/27/2019			0.138				0.113	
9/9/2019	2.33	1.73	0.157					
9/10/2019				0.16	<0.1015	<0.1015	0.105	
9/11/2019								<0.1015
4/21/2020	1.97	1.51	0.14	0.586	<0.1015			<0.1015
4/22/2020						<0.1015	0.104	
8/11/2020	2.03						0.11	
8/12/2020		1.53			<0.1015	<0.1015		
8/17/2020			0.152					
8/18/2020				0.211				<0.1015
3/9/2021	2.45	1.52						
3/10/2021				0.528	<0.1015	<0.1015	0.146	
3/15/2021								<0.1015
3/16/2021			0.134					
8/17/2021	2.18	1.45	0.131					
8/18/2021								<0.1015
8/24/2021					<0.1015	<0.1015	0.115	
8/25/2021				0.288				
3/28/2022			0.125		<0.1015			
3/29/2022							0.122	
3/30/2022				0.696				
4/4/2022	2.32					<0.1015		<0.1015
4/6/2022		1.6						

# Time Series

Constituent: Boron (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			0.132					
10/17/2022		1.46		0.59	<0.1015	<0.1015		
10/18/2022	2.28						0.124	
10/19/2022								<0.1015
5/16/2023					<0.1015	<0.1015		
5/17/2023	2.48		0.143					
5/22/2023		1.49						
5/30/2023				0.402			0.115	<0.1015

# Time Series

Constituent: Boron (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				0.0288 (J)				
4/12/2016				0.0293 (J)				
6/1/2016				0.0279 (J)				
8/15/2016				0.0332 (J)				
8/16/2016			<0.1015		<0.1015	<0.1015	<0.1015	0.0268 (J)
8/17/2016	<0.1015	<0.1015						
9/19/2016						<0.1015	<0.1015	0.0225 (J)
9/20/2016	<0.1015	<0.1015	<0.1015		<0.1015			
10/11/2016			<0.1015	0.0328 (J)	<0.1015	<0.1015	<0.1015	0.0304 (J)
10/12/2016	0.02 (J)	<0.1015						
11/14/2016						<0.1015	<0.1015	0.0355 (J)
11/15/2016	<0.1015	<0.1015	0.0229 (J)		<0.1015			
1/3/2017						<0.1015	<0.1015	0.0304 (J)
1/4/2017	<0.1015	<0.1015	<0.1015		<0.1015			
1/23/2017	0.0287 (J)				<0.1015			
1/24/2017		0.0331 (J)		0.0262 (J)		0.0282 (J)	<0.1015	
1/25/2017								<0.1015
1/26/2017			<0.1015					
5/9/2017	<0.1015	<0.1015	<0.1015	0.0298 (J)	<0.1015			
5/10/2017						<0.1015	<0.1015	<0.1015
6/27/2017	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015
6/28/2017				0.0226 (J)				
8/29/2017	<0.1015							
8/30/2017		<0.1015	<0.1015	<0.1	<0.1015	<0.1015	<0.1015	<0.1015
6/4/2018				0.0296 (J)				
6/5/2018	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015
11/5/2018							<0.1015	
11/6/2018	<0.1015	<0.1015	<0.1015	0.0268 (J)	<0.1015	<0.1015		<0.1015
3/26/2019	<0.1015	<0.1015	<0.1015		<0.1015			
3/27/2019				0.0316 (J)		<0.1015	<0.1015	<0.1015
9/9/2019				0.035 (J)				
9/11/2019	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015
4/20/2020				<0.1				
4/21/2020	<0.1015	<0.1015	<0.1015		<0.1015			
4/22/2020						<0.1015	<0.1015	<0.1015
8/11/2020						<0.1015		
8/12/2020							<0.1015	<0.1015
8/17/2020				0.0636 (J)				
8/18/2020	<0.1015	<0.1015	<0.1015		<0.1015			
3/15/2021	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015
3/16/2021				0.0445 (J)				
8/17/2021				0.0518 (J)				
8/18/2021	<0.1015	<0.1015	<0.1015		<0.1015			
8/23/2021						<0.1015	<0.1015	<0.1015
3/28/2022	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015
4/5/2022				0.0453 (J)				
10/5/2022				0.0404 (J)		<0.1015	<0.1015	<0.1015
10/19/2022	<0.1015	<0.1015	<0.1015		<0.1015			
5/17/2023				0.0456 (J)				
5/22/2023						<0.1015	<0.1015	<0.1015
5/23/2023						<0.1015		
5/30/2023	<0.1015	<0.1015	<0.1015		<0.1015			

# Time Series

Constituent: Boron (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.148			
1/15/2019				0.224		1.68	0.702	0.762
1/16/2019		0.0284 (J)						
1/17/2019	<0.1015							
1/30/2019			0.164					
9/10/2019	<0.1015						0.734	
9/11/2019		<0.1015	0.147		0.175	1.67		0.758
4/20/2020							0.821	
4/21/2020		<0.1015						
4/22/2020	<0.1015		0.143	0.186	0.118	1.89		
4/29/2020								0.699
8/11/2020			0.145			1.84		
8/12/2020	<0.1015						0.807	
8/18/2020		<0.1015						0.689
8/19/2020				0.229	0.135			
3/9/2021			0.159			1.81		
3/10/2021					0.104		0.807	
3/15/2021	<0.1015							0.659
3/16/2021		<0.1015		0.159				
8/23/2021	<0.1015							
8/24/2021		<0.1015	0.139	0.179	0.105	2		
8/25/2021							0.627	0.632
3/28/2022	<0.1015							
3/29/2022				0.157				
3/30/2022			0.145		0.102		0.506	
4/6/2022		<0.1015				2.21		0.607
10/5/2022							0.541	
10/17/2022		<0.1015	0.143	0.159				
10/18/2022					0.097 (J)	2.07		0.585
10/19/2022	<0.1015							
5/22/2023			0.143					
5/23/2023		<0.1015		0.159	0.071 (J)			
5/24/2023						2.19		
5/31/2023	<0.1015						0.536	0.56

# Time Series

Constituent: Boron (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	1.73							
1/16/2019		0.835	0.173					
9/11/2019	1.88	1.07	0.199					
4/20/2020			0.2	0.426				
4/21/2020	1.76	1.08					0.172	0.272
5/28/2020						0.143		
7/6/2020					0.274			
8/11/2020					0.252	0.0903 (J)		
8/12/2020			0.197					
8/17/2020				0.57			0.218	
8/19/2020	1.26	1.15						0.213
3/8/2021					0.658	0.0769 (J)		
3/9/2021	1.26	1.14						
3/10/2021			0.218	0.625			0.188	0.224
8/17/2021					0.392	0.105		
8/18/2021	1.03	1.23		0.646			0.131	0.157
8/23/2021			0.208					
3/23/2022					0.355	0.159		
3/29/2022				0.567				
3/30/2022							0.0985 (J)	0.33
4/4/2022			0.202					
4/6/2022	1.46	1.29						
10/4/2022					0.302	0.115		
10/5/2022			0.194					
10/18/2022				0.489			0.0976 (J)	
10/19/2022	1.95	1.22						0.437
5/16/2023			0.201					
5/17/2023					0.321			
5/22/2023				0.536		0.0956 (J)		
5/24/2023		1.21						
5/30/2023	1.58						0.0653 (J)	0.413



# Time Series

Constituent: Boron (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.478							
4/12/2016	0.467							
5/31/2016	0.443							
8/17/2016	0.477							
10/11/2016	0.489							
1/24/2017	0.475							
5/9/2017	0.479							
6/28/2017	0.448							
8/30/2017	0.407							
6/5/2018	0.489							
11/6/2018	0.508							
3/27/2019	0.502							
9/11/2019	0.595							
4/20/2020				0.309	0.626		0.252	
4/21/2020	0.72							
5/28/2020		0.343				0.0435 (J)		0.208
7/6/2020			1.2					
8/11/2020		0.329	1.25	0.493		0.0406 (J)		0.209
8/12/2020	0.695				0.76		0.338	
3/8/2021		0.302	1.25					
3/9/2021						0.0397 (J)		0.192
3/10/2021				0.338	0.53		0.126	
3/16/2021	0.694							
8/16/2021			1.35					
8/17/2021		0.281				<0.1015		0.192
8/23/2021	0.628			0.517	0.458		0.211	
3/23/2022		0.508	1.33			0.0337 (J)		0.197
4/4/2022	0.615							
4/5/2022					0.462		0.104	
4/6/2022				0.329				
10/3/2022			1.39					
10/4/2022		0.328				0.0305 (J)		0.206
10/5/2022					0.398		0.151	
10/17/2022	0.599			0.555				
5/15/2023			1.54					
5/17/2023	0.515							
5/23/2023		0.336			0.335	<0.1015	0.109	0.197
5/30/2023				0.435				

# Time Series

Constituent: Boron (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								1.54
2/17/2016	2.12						0.503	
4/12/2016	2.06							
4/13/2016							0.478	1.56
5/31/2016	1.97						0.452	
6/1/2016								1.49
8/17/2016	2.01						0.492	1.57
10/11/2016	1.91							
10/12/2016							0.487	1.65
1/24/2017	1.62							
1/25/2017							0.529	1.89
5/10/2017	1.62						0.533	1.94
6/28/2017	1.71						0.501	1.72
8/29/2017	1.7						0.51	1.63
6/5/2018	1.56						0.605	1.73
11/7/2018	1.6						0.677	1.8
3/26/2019	1.63						0.727	1.81
9/10/2019	1.83						0.764	1.82
4/21/2020	1.77						0.793	1.89
8/19/2020	1.86						0.561	1.94
3/9/2021	1.49						0.397	1.57
8/17/2021		<0.1015	<0.1015	<0.1015	<0.1015	0.571		
8/24/2021	1.36						0.216	1.23
3/23/2022		<0.1015	<0.1015	0.0339 (J)	0.0339 (J)	0.567		
3/29/2022	1.39						0.0842 (J)	1.08
10/4/2022		<0.1015	<0.1015	<0.1015	0.036 (J)	0.419		
10/18/2022	1.16						0.0589 (J)	0.815
5/17/2023						0.464		
5/22/2023				<0.1015	0.0326 (J)			
5/23/2023		<0.1015	<0.1015					
5/30/2023	1.09						0.0498 (J)	0.794

# Time Series

Constituent: Boron (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	0.412	
4/13/2016	0.376	
6/1/2016	0.338	
8/17/2016	0.412	
10/12/2016	0.46	
1/25/2017	0.586	
5/10/2017	0.661	
6/28/2017	0.673	
8/29/2017	0.723	
6/5/2018	0.954	
11/7/2018	1.11	
3/26/2019	1.14	
9/10/2019	1.23	0.293
4/20/2020		0.308
4/21/2020	1.27	
8/17/2020		0.344
8/18/2020	1.24	
3/9/2021	1.12	
3/10/2021		0.338
8/17/2021		0.296
8/24/2021	1.14	
3/29/2022	0.71	
4/5/2022		0.351
10/5/2022		0.272
10/18/2022	1.15	
5/17/2023		0.316
5/30/2023	1.05	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.000203		<0.000203	<0.000203	<0.000203		
2/17/2016	<0.000203		<0.000203				<0.000203	<0.000203
4/12/2016					<0.000203	<0.000203	<0.000203	
4/13/2016	<0.000203	<0.000203	<0.000203	<0.000203				<0.000203
5/31/2016		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
6/1/2016	<0.000203							<0.000203
8/15/2016	<0.000203							<0.000203
8/16/2016		<0.000203	<0.000203	<0.000203	<0.000203		<0.000203	
8/17/2016						<0.000203		
10/11/2016	<0.000203						<0.000203	
10/12/2016		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
1/24/2017	<0.000203						<0.000203	<0.000203
1/25/2017		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
5/9/2017	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203		
5/10/2017		<0.000203					<0.000203	<0.000203
6/27/2017	<0.000203						<0.000203	<0.000203
6/28/2017		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
2/27/2018	<0.000203	<0.000203	<0.000203			<0.000203		
2/28/2018				<0.000203	<0.000203		<0.000203	<0.000203
6/4/2018	<0.000203							
6/5/2018		<0.000203	<0.000203				<0.000203	<0.000203
6/6/2018				<0.000203	<0.000203	<0.000203		
11/5/2018			<0.000203	<0.000203	<0.000203			
11/6/2018	<0.000203						<0.000203	<0.000203
11/7/2018		<0.000203				<0.000203		
3/26/2019				<0.000203	<0.000203		<0.000203	<0.000203
3/27/2019	<0.000203	<0.000203	<0.000203			<0.000203		
9/10/2019	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203
9/11/2019					<0.000203			
4/20/2020					<0.000203		<0.000203	<0.000203
4/21/2020	<0.000203			<0.000203		<0.000203		
4/22/2020		<0.000203	<0.000203					
8/11/2020						<0.000203		<0.000203
8/12/2020							<0.000203	
8/17/2020	<0.000203							
8/18/2020		<0.000203	<0.000203	<0.000203	<0.000203			
3/9/2021						<0.000203		<0.000203
3/10/2021			0.000347	<0.000203			0.00012 (J)	
3/15/2021		<0.000203			<0.000203			
3/16/2021	<0.000203							
8/17/2021	<0.000203							<0.000203
8/24/2021		<0.000203						
8/25/2021			<0.000203	<0.000203	<0.000203	<0.000203	0.00014 (J)	
3/29/2022				<0.000203			0.00046	
3/30/2022			<0.000203					
4/4/2022	<0.000203	<0.000203				<0.000203		
4/6/2022					8E-05 (J)			<0.000203
10/5/2022	9.2E-05 (J)							
10/17/2022			<0.000203	<0.000203	0.000145 (J)			
10/18/2022		<0.000203				<0.000203	0.000135 (J)	6.9E-05 (J)
5/16/2023	8.9E-05 (J)							
5/17/2023			<0.000203					

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							0.00019 (J)	
5/24/2023		<0.000203				<0.000203		
5/30/2023				<0.000203				
5/31/2023					<0.000203			<0.000203

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.000203				
2/17/2016	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	
4/12/2016		<0.000203			<0.000203	<0.000203	<0.000203	
4/13/2016	<0.000203		<0.000203	<0.000203				
6/1/2016	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
8/15/2016	<0.000203	<0.000203	<0.000203					
8/16/2016				<0.000203	<0.000203	<0.000203		
8/17/2016							<0.000203	<0.000203
9/20/2016								<0.000203
10/11/2016			<0.000203		<0.000203	<0.000203	<0.000203	
10/12/2016	<0.000203	<0.000203		<0.000203				<0.000203
11/15/2016								<0.000203
1/4/2017								<0.000203
1/23/2017								<0.000203
1/24/2017	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	
1/25/2017				<0.000203				
5/9/2017			<0.000203	<0.000203	<0.000203		<0.000203	0.000706 (J)
5/10/2017	<0.000203	<0.000203				<0.000203		
6/27/2017	<0.000203	<0.000203			<0.000203			0.000429 (J)
6/28/2017			<0.000203	<0.000203		<0.000203	<0.000203	
2/27/2018			<0.000203		<0.000203	<0.000203		<0.000203
2/28/2018	<0.000203	<0.000203		<0.000203			<0.000203	
6/4/2018			<0.000203					
6/5/2018	<0.000203	<0.000203			<0.000203	<0.000203		<0.000203
6/6/2018				<0.000203			<0.000203	
11/5/2018				<0.000203				
11/6/2018	<0.000203	<0.000203	<0.000203				<0.000203	<0.000203
11/7/2018					<0.000203	<0.000203		
3/26/2019	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203		<0.000203
3/27/2019			<0.000203				<0.000203	
9/9/2019	<0.000203	<0.000203	<0.000203					
9/10/2019				<0.000203	<0.000203	<0.000203	<0.000203	
9/11/2019								<0.000203
4/21/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203			<0.000203
4/22/2020						<0.000203	<0.000203	
8/11/2020	<0.000203						<0.000203	
8/12/2020		<0.000203			<0.000203	<0.000203		
8/17/2020			<0.000203					
8/18/2020				<0.000203				<0.000203
3/9/2021	<0.000203	<0.000203						
3/10/2021				7.02E-05 (J)	<0.000203	<0.000203	<0.000203	
3/15/2021								<0.000203
3/16/2021			0.00013 (J)					
8/17/2021	<0.000203	<0.000203	<0.000203					
8/18/2021								<0.000203
8/24/2021					<0.000203	<0.000203	9E-05 (J)	
8/25/2021				<0.000203				
3/28/2022			0.00012 (J)		<0.000203			
3/29/2022							7E-05 (J)	
3/30/2022				7E-05 (J)				
4/4/2022	<0.000203					<0.000203		<0.000203
4/6/2022		<0.000203						

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			<0.000203					
10/17/2022		<0.000203		0.000102 (J)	<0.000203	<0.000203		
10/18/2022	<0.000203						8.3E-05 (J)	
10/19/2022								<0.000203
5/16/2023					<0.000203	<0.000203		
5/17/2023	<0.000203		7.7E-05 (J)					
5/22/2023		<0.000203						
5/30/2023				0.000138 (J)			0.0001 (J)	<0.000203

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.000203				
4/12/2016				<0.000203				
6/1/2016				<0.000203				
8/15/2016				<0.000203				
8/16/2016			<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
8/17/2016	0.000211 (J)	0.000742 (J)						
9/19/2016						<0.000203	<0.000203	<0.000203
9/20/2016	<0.000203	0.000857 (J)	<0.000203		<0.000203			
10/11/2016			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
10/12/2016	<0.000203	0.000912 (J)						
11/14/2016						<0.000203	<0.000203	<0.000203
11/15/2016	0.000216 (J)	0.000821 (J)	<0.000203		<0.000203			
1/3/2017						<0.000203	<0.000203	<0.000203
1/4/2017	<0.000203	0.000718 (J)	<0.000203		<0.000203			
1/23/2017	0.000231 (J)				<0.000203			
1/24/2017		0.000716 (J)		<0.000203		<0.000203	<0.000203	
1/25/2017								<0.000203
1/26/2017			0.000228 (J)					
5/9/2017	<0.000203	0.000746 (J)	0.000277 (J)	<0.000203	<0.000203			
5/10/2017						<0.000203	<0.000203	<0.000203
6/27/2017	<0.000203	0.00065 (J)	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
6/28/2017				<0.000203				
2/27/2018	<0.000203	0.000752 (J)	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
6/4/2018				<0.000203				
6/5/2018	<0.000203	0.000731 (J)	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
11/5/2018							<0.000203	
11/6/2018	<0.000203	0.000646 (J)	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
3/26/2019	<0.000203	0.000582 (J)	<0.000203		<0.000203			
3/27/2019				<0.000203		<0.000203	<0.000203	<0.000203
9/9/2019				<0.000203				
9/11/2019	<0.000203	0.000573 (J)	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
4/20/2020				<0.000203				
4/21/2020	<0.000203	0.00052 (J)	<0.000203		<0.000203			
4/22/2020						<0.000203	<0.000203	<0.000203
8/11/2020						<0.000203		
8/12/2020							<0.000203	<0.000203
8/17/2020				<0.000203				
8/18/2020	<0.000203	0.000476 (J)	<0.000203		<0.000203			
3/15/2021	0.0001 (J)	0.000536	0.000204		8.19E-05 (J)	<0.000203	<0.000203	<0.000203
3/16/2021				<0.000203				
8/17/2021				<0.000203				
8/18/2021	0.00018 (J)	0.00042	0.00019 (J)		8E-05 (J)			
8/23/2021						<0.000203	<0.000203	<0.000203
3/28/2022	0.00018 (J)	0.00043	0.00016 (J)		<0.000203	<0.000203	<0.000203	<0.000203
4/5/2022				<0.000203				
10/5/2022				<0.000203		<0.000203	<0.000203	<0.000203
10/19/2022	0.000193 (J)	0.0004	0.00011 (J)		0.000108 (J)			
5/17/2023				<0.000203				
5/22/2023							<0.000203	<0.000203
5/23/2023						<0.000203		
5/30/2023	0.000188 (J)	0.000478	0.000158 (J)		<0.000203			



# Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.000203			
1/15/2019				<0.000203		<0.000203	<0.000203	<0.000203
1/16/2019		<0.000203						
1/17/2019	<0.000203							
1/30/2019			<0.000203					
9/10/2019	<0.000203						<0.000203	
9/11/2019		<0.000203	<0.000203		<0.000203	<0.000203		<0.000203
4/20/2020							<0.000203	
4/21/2020		<0.000203						
4/22/2020	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203		
4/29/2020								<0.000203
8/11/2020			<0.000203			<0.000203		
8/12/2020	<0.000203						<0.000203	
8/18/2020		<0.000203						<0.000203
8/19/2020				<0.000203	<0.000203			
3/9/2021			<0.000203			<0.000203		
3/10/2021					<0.000203		0.000171 (J)	
3/15/2021	<0.000203							<0.000203
3/16/2021		<0.000203		<0.000203				
8/23/2021	<0.000203							
8/24/2021		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
8/25/2021							8E-05 (J)	<0.000203
3/28/2022	<0.000203							
3/29/2022				<0.000203				
3/30/2022			<0.000203		<0.000203		0.00018 (J)	
4/6/2022		<0.000203				<0.000203		<0.000203
10/5/2022							9.6E-05 (J)	
10/17/2022		<0.000203	<0.000203	<0.000203				
10/18/2022					<0.000203	<0.000203		<0.000203
10/19/2022	<0.000203							
5/22/2023			<0.000203					
5/23/2023		<0.000203		<0.000203	<0.000203			
5/24/2023						<0.000203		
5/31/2023	<0.000203						0.000157 (J)	<0.000203

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.000203							
1/16/2019		<0.000203	<0.000203					
9/11/2019	<0.000203	<0.000203	<0.000203					
4/20/2020			<0.000203	<0.000203				
4/21/2020	<0.000203	<0.000203					<0.000203	<0.000203
5/28/2020						<0.000203		
7/6/2020					<0.000203			
8/11/2020					<0.000203	<0.000203		
8/12/2020			<0.000203					
8/17/2020				<0.000203			<0.000203	
8/19/2020	<0.000203	<0.000203						0.000334 (J)
3/8/2021					<0.000203	<0.000203		
3/9/2021	0.000682	<0.000203						
3/10/2021			0.000411	<0.000203			<0.000203	0.00017 (J)
8/17/2021					0.0001 (J)	<0.000203		
8/18/2021	9E-05 (J)	<0.000203		<0.000203			7E-05 (J)	0.00021
8/23/2021			0.00032					
3/23/2022					<0.000203	<0.000203		
3/29/2022				<0.000203				
3/30/2022							<0.000203	0.00029
4/4/2022			0.0003					
4/6/2022	0.00024	<0.000203						
10/4/2022					9.6E-05 (J)	<0.000203		
10/5/2022			0.000302					
10/18/2022				<0.000203			8.8E-05 (J)	
10/19/2022	0.000187 (J)	<0.000203						0.000463
5/16/2023			0.00019 (J)					
5/17/2023					<0.000203			
5/22/2023				0.000125 (J)		<0.000203		
5/24/2023		<0.000203						
5/30/2023	0.000152 (J)						8.5E-05 (J)	0.000412

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.000203							
4/12/2016	<0.000203							
5/31/2016	<0.000203							
8/17/2016	<0.000203							
10/11/2016	<0.000203							
1/24/2017	<0.000203							
5/9/2017	<0.000203							
6/28/2017	<0.000203							
2/27/2018	<0.000203							
6/5/2018	<0.000203							
11/6/2018	<0.000203							
3/27/2019	<0.000203							
9/11/2019	<0.000203							
4/20/2020				<0.000203	<0.000203		<0.000203	
4/21/2020	<0.000203							
5/28/2020		<0.000203				<0.000203		<0.000203
7/6/2020			0.000366 (J)					
8/11/2020		<0.000203	0.00042 (J)	<0.000203		<0.000203		<0.000203
8/12/2020	<0.000203				<0.000203		<0.000203	
3/8/2021		0.000287	0.000227					
3/9/2021						<0.000203		7.08E-05 (J)
3/10/2021				<0.000203	<0.000203		<0.000203	
3/16/2021	<0.000203							
8/16/2021			0.00022					
8/17/2021		0.00024				<0.000203		<0.000203
8/23/2021	<0.000203			<0.000203	<0.000203		<0.000203	
3/23/2022		0.00037	0.00014 (J)			<0.000203		0.00012 (J)
4/4/2022	<0.000203							
4/5/2022					<0.000203		<0.000203	
4/6/2022				<0.000203				
10/3/2022			9.8E-05 (J)					
10/4/2022		0.000218				<0.000203		<0.000203
10/5/2022					<0.000203		<0.000203	
10/17/2022	<0.000203			<0.000203				
5/15/2023			0.00018 (J)					
5/17/2023	<0.000203							
5/23/2023		0.000413			<0.000203	<0.000203	<0.000203	8.6E-05 (J)
5/30/2023				<0.000203				

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.000203
2/17/2016	<0.000203						<0.000203	
4/12/2016	<0.000203							
4/13/2016							<0.000203	<0.000203
5/31/2016	<0.000203						<0.000203	
6/1/2016								<0.000203
8/17/2016	<0.000203						<0.000203	<0.000203
10/11/2016	<0.000203							
10/12/2016							<0.000203	<0.000203
1/24/2017	<0.000203							
1/25/2017							<0.000203	<0.000203
5/10/2017	<0.000203						<0.000203	<0.000203
6/28/2017	<0.000203						<0.000203	<0.000203
2/27/2018	<0.000203						<0.000203	<0.000203
6/5/2018	<0.000203						<0.000203	<0.000203
11/7/2018	<0.000203						<0.000203	<0.000203
3/26/2019	<0.000203						<0.000203	<0.000203
9/10/2019	<0.000203						<0.000203	<0.000203
4/21/2020	<0.000203						<0.000203	<0.000203
8/19/2020	<0.000203						<0.000203	<0.000203
3/9/2021	0.00278						<0.000203	0.000241
8/17/2021		<0.000203	<0.000203	<0.000203	0.00012 (J)	<0.000203		
8/24/2021	0.00018 (J)						<0.000203	<0.000203
3/23/2022		<0.000203	<0.000203	7E-05 (J)	0.0001 (J)	0.00013 (J)		
3/29/2022	0.0005						<0.000203	<0.000203
10/4/2022		<0.000203	<0.000203	<0.000203	8.4E-05 (J)	0.000167 (J)		
10/18/2022	<0.000203						<0.000203	<0.000203
5/17/2023						0.000154 (J)		
5/22/2023				7.5E-05 (J)	7.8E-05 (J)			
5/23/2023		<0.000203	<0.000203					
5/30/2023	8.1E-05 (J)						<0.000203	<0.000203

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.000203	
4/13/2016	<0.000203	
6/1/2016	<0.000203	
8/17/2016	<0.000203	
10/12/2016	<0.000203	
1/25/2017	<0.000203	
5/10/2017	<0.000203	
6/28/2017	<0.000203	
2/27/2018	<0.000203	
6/5/2018	<0.000203	
11/7/2018	<0.000203	
3/26/2019	<0.000203	
9/10/2019	<0.000203	<0.000203
4/20/2020		<0.000203
4/21/2020	<0.000203	
8/17/2020		<0.000203
8/18/2020	<0.000203	
3/9/2021	<0.000203	
3/10/2021		<0.000203
8/17/2021		<0.000203
8/24/2021	<0.000203	
3/29/2022	<0.000203	
4/5/2022		8E-05 (J)
10/5/2022		0.000168 (J)
10/18/2022	<0.000203	
5/17/2023		0.000254
5/30/2023	<0.000203	

# Time Series

Constituent: Calcium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		76.3		34.6	29.8	44.4		
2/17/2016	204		18.6				47.7	57
4/12/2016					23.3	43.2	44.4	
4/13/2016	152	30.5	17.8	32.2				62.5
5/31/2016		65.9	17.7	28.8	25.9	43	45.3	
6/1/2016	183							54.4
8/15/2016	197							56.2
8/16/2016		65.6	18.4	24	25.5		49.4	
8/17/2016						35.9		
10/11/2016	186						52.7	
10/12/2016		63.4	17.3	27.8	29.5	31.1		56.6
1/24/2017	193						49.4	59.1
1/25/2017		64.2	16.6	33.7	33.6	42.7		
5/9/2017	184		18	35.5	30.4	48.1		
5/10/2017		62.6					47.4	62.5
6/27/2017	184						44.9	63.6
6/28/2017		60.8	22.6	28	26	55		
8/29/2017		61.4	23.9	26.4	22.3	83.6		
8/30/2017	182						44.4	65.7
6/4/2018	157							
6/5/2018		65.5	25.7				45.1	66.8
6/6/2018				30.1	23.7	167		
9/10/2018	219		27.2					
9/11/2018		66.1		27.4	26.8		48.5	
9/12/2018						109		76.3
11/5/2018			24.1	28.8	29.4			
11/6/2018	186						49.2	77.4
11/7/2018		68.5				105		
3/26/2019				33.7	34.1		54	90
3/27/2019	73.8	71.8	31			162		
9/10/2019	147	69.3	27.7	30.5		125	57.2	86.3
9/11/2019					53.9			
4/20/2020					40.3		61	90.8
4/21/2020	90.5			51		113		
4/22/2020		62.9	36.7					
8/11/2020						118		101
8/12/2020							72.2	
8/17/2020	81.5							
8/18/2020		74.4	37.6	42.9	95.3			
3/9/2021						115		101
3/10/2021			39.9	55.1			67.4	
3/15/2021		73.8			68.9			
3/16/2021	109							
8/17/2021	103							103
8/24/2021		83.4						
8/25/2021			57.6	45.2	74.2	134	74.8	
3/29/2022				52			75.7	
3/30/2022			39.6					
4/4/2022	106	93.7				117		
4/6/2022					55.5			101
10/5/2022	113							
10/17/2022			60.599998	49.799999	158			

# Time Series

Constituent: Calcium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
10/18/2022		105				125	89.400002	128
5/16/2023	105							
5/17/2023			57.799999					
5/23/2023							92.5	
5/24/2023		108				119		
5/30/2023				54.5				
5/31/2023					65.099998			108





# Time Series

Constituent: Calcium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
3/30/2022				51				
4/4/2022	104					37		6.7
4/6/2022		96.1						
10/5/2022			179					
10/17/2022		99.900002		57	23.1	31.6		
10/18/2022	150						38.200001	
10/19/2022								7.91
5/16/2023					25.4	47.299999		
5/17/2023	147		204					
5/22/2023		82.099998						
5/30/2023				36.099998			13.9	8.37

# Time Series

Constituent: Calcium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				106				
4/12/2016				95.2				
6/1/2016				86.1				
8/15/2016				89.7				
8/16/2016			2.02		1.24	39.5	9.33	5.54
8/17/2016	1.1	7.74						
9/19/2016						34.5	9.26	3.01
9/20/2016	0.771	2.43	1.22		1.11			
10/11/2016			1.48	90.6	1.22	32.4	9.31	2.74
10/12/2016	0.711	2.46						
11/14/2016						26.5	9.17	2.47
11/15/2016	0.641	2.28	1.36		1.34			
1/3/2017						22.6	9.66	2.94
1/4/2017	0.797	2.7	1.11		2.39			
1/23/2017	0.655				1.83			
1/24/2017		4.19		94.2		19.5	9.67	
1/25/2017								2.91
1/26/2017			1.03					
5/9/2017	0.538	3.28	0.289 (J)	90.3	0.823			
5/10/2017						15.7	9.81	2.27
6/27/2017	0.413 (J)	3.76	0.292 (J)		0.956	13.8	9.88	2.2
6/28/2017				80.7				
8/29/2017	0.504							
8/30/2017		2.31	0.336 (J)	84	1.04	11.1	10.3	2.26
6/4/2018				98.8				
6/5/2018	0.339 (J)	2.76	0.2 (J)		1.18	9.12	11.4	2.97
9/11/2018	0.776	2.04	0.171 (J)		1.5	7.5	10.5	2.6
9/12/2018				109				
11/5/2018							10.5	
11/6/2018	0.746	2	0.193 (J)	110	1.64	7.39		2.42
3/26/2019	0.526	2.13	0.223 (J)		1.33			
3/27/2019				111		7.65	11.6	2.75
9/9/2019				98.5				
9/11/2019	0.638	1.98	0.158 (J)		0.925	6.96	9.95	2.17
4/20/2020				91.2				
4/21/2020	1.15	2.41	0.287 (J)		0.864			
4/22/2020						5.92	9.87	3.15
8/11/2020						7.46		
8/12/2020							9.48	1.78
8/17/2020				78.9				
8/18/2020	0.884	2.23	0.231 (J)		0.926			
3/15/2021	0.745	1.73	0.239 (J)		0.646	5.9	2.02	9.77
3/16/2021				66.6				
8/17/2021				55.4				
8/18/2021	1.11	1.94	0.283 (J)		0.716			
8/23/2021						7.11	2.16	9.48
3/28/2022	1.37	1.94	0.172 (J)		0.542	5.95	9.61	2.21
4/5/2022				67.4				
10/5/2022				54.5		6.69	9.18	2.01
10/19/2022	1.02	1.83	0.158 (J)		0.602			
5/17/2023				56.799999				
5/22/2023							10.2	2.52

# Time Series

Constituent: Calcium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
5/23/2023					6.75		
5/30/2023	1.27	2.22	0.238 (J)	0.503			

# Time Series

Constituent: Calcium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					123			
1/15/2019				231		97.6	60.7	115
1/16/2019		19.6						
1/17/2019	25.3							
1/30/2019			2.85					
9/10/2019	12.8						97.5	
9/11/2019		22.2	1.16		84	91.6		72.1
4/20/2020							88.2	
4/21/2020		47.3						
4/22/2020	12		0.941	175	83.9	102		
4/29/2020								70.8
8/11/2020			1.06			111		
8/12/2020	9.68						115	
8/18/2020		22.9						66.7
8/19/2020				143	96			
3/9/2021			0.99			108		
3/10/2021					96.2		109	
3/15/2021	12.6							70.4
3/16/2021		24.9		148				
8/23/2021	11.1							
8/24/2021		21	1.07	143	109	115		
8/25/2021							108	78.3
3/28/2022	10.8							
3/29/2022				118				
3/30/2022			1.01		93.5		96	
4/6/2022		22.5				119		110
10/5/2022							106	
10/17/2022		23.700001	0.791	148				
10/18/2022					117	131		130
10/19/2022	12.1							
5/22/2023			0.908					
5/23/2023		22.1		158	110			
5/24/2023						126		
5/31/2023	15.6						90.199997	127

# Time Series

Constituent: Calcium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	70							
1/16/2019		54.9	174					
9/11/2019	57.2	60.7	179					
4/20/2020			167	64.9				
4/21/2020	56.5	81.4					28.9	36.8
5/28/2020						38.6		
7/6/2020					51.1			
8/11/2020					57.8	15.9		
8/12/2020			173					
8/17/2020				57.2			27.6	
8/19/2020	59.3	99.7						27.4
3/8/2021					47.1	12.9		
3/9/2021	69.5	102						
3/10/2021			159	39.3			22.1	27.3
8/17/2021					55	16.4		
8/18/2021	74.4	106		122			17.9	19.5
8/23/2021			138					
3/23/2022					53.1	21.1		
3/29/2022				110				
3/30/2022							13.4	27.8
4/4/2022			137					
4/6/2022	69.6	110						
10/4/2022					61.5	13		
10/5/2022			137					
10/18/2022				83.400002			13.2	
10/19/2022	91.400002	119						32.400002
5/16/2023			132					
5/17/2023					50.200001			
5/22/2023				110		13.2		
5/24/2023		114						
5/30/2023	70.599998						9.8	29.6

# Time Series

Constituent: Calcium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	59.8							
4/12/2016	56.1							
5/31/2016	56.6							
8/17/2016	61							
10/11/2016	61.3							
1/24/2017	61							
5/9/2017	61.7							
6/28/2017	66.1							
8/30/2017	78.9							
6/5/2018	64.8							
9/11/2018	72.2							
11/6/2018	78.9							
3/27/2019	69.1							
9/11/2019	90.8							
4/20/2020				93.1	98.8		69.5	
4/21/2020	93							
5/28/2020		40.1				2.61		72.4
7/6/2020			75.6					
8/11/2020		39.5	73.1	92.8		2.43		76.7
8/12/2020	92.2				101		79.1	
3/8/2021		32.7	63.3					
3/9/2021						2.62		60.5
3/10/2021				80.8	92.8		29	
3/16/2021	99.7							
8/16/2021			61.7					
8/17/2021		38.1				1.96		69.8
8/23/2021	87.6			79.2	78.2		41.4	
3/23/2022		38.7	66			2.26		63.2
4/4/2022	98.8							
4/5/2022					95.6		17.8	
4/6/2022				78.5				
10/3/2022			91.400002					
10/4/2022		37.200001				2.52		71.599998
10/5/2022					78.800003		34.900002	
10/17/2022	119			74.599998				
5/15/2023			87.5					
5/17/2023	111							
5/23/2023		51.5			106	2.01	24.4	77.5
5/30/2023				78.699997				

# Time Series

Constituent: Calcium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								75.9
2/17/2016	128						158	
4/12/2016	115							
4/13/2016							151	74.1
5/31/2016	118						158	
6/1/2016								76.4
8/17/2016	120						152	74.2
10/11/2016	119							
10/12/2016							150	75.7
1/24/2017	110							
1/25/2017							137	76.1
5/10/2017	104						111	78.6
6/28/2017	98						108	76.4
8/29/2017	108						113	74.1
6/5/2018	121						186	58
9/11/2018	119						209	64.9
11/7/2018	124						175	68.1
3/26/2019	148						193	72
9/10/2019	164						188	91
4/21/2020	142						155	84.8
8/19/2020	162						147	98.6
3/9/2021	119						160	100
8/17/2021		3.97	35.7	20.3	8.92	54.6		
8/24/2021	129						123	86.4
3/23/2022		2.95	22.4	8.23	6.43	63.2		
3/29/2022	128						126	92.8
10/4/2022		2.98	16.6	9.58	7.09	69.800003		
10/18/2022	159						158	93.800003
5/17/2023						65.099998		
5/22/2023				9.84	8.28			
5/23/2023		3.14	15.4					
5/30/2023	138						140	87

# Time Series

Constituent: Calcium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	33.9	
4/13/2016	32.5	
6/1/2016	33.9	
8/17/2016	50.3	
10/12/2016	53.3	
1/25/2017	59.9	
5/10/2017	66.5	
6/28/2017	69.8	
8/29/2017	72	
6/5/2018	95.1	
9/11/2018	122	
9/12/2018		172
11/7/2018	107	
3/26/2019	132	
9/10/2019	116	160
4/20/2020		147
4/21/2020	111	
8/17/2020		153
8/18/2020	109	
3/9/2021	82.1	
3/10/2021		157
8/17/2021		149
8/24/2021	93.1	
3/29/2022	72.1	
4/5/2022		209
10/5/2022		198
10/18/2022	111	
5/17/2023		207
5/30/2023	91.099998	



# Time Series

Constituent: Chloride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		18.4		10.8	6.52	16.4		
2/17/2016	16		16.6				11.8	12.5
4/12/2016					4.47	15.9	12.6	
4/13/2016	21.5	19	17	8.2				13.6
5/31/2016		19.2	19	7.74	10.8	13.6	12.9	
6/1/2016	52.5							14.2
8/15/2016	33.3							13.6
8/16/2016		17.7	17	12.5	16.6		10.2	
8/17/2016						12.8		
10/11/2016	22.2						10.2	
10/12/2016		16.8	16.2	15.7	18.5	16.3		13.8
1/24/2017	18.4						11.2	14.2
1/25/2017		18.6	18	24.4	22	16.4		
5/9/2017	30		23	15	10	19		
5/10/2017		22					14	18
6/27/2017	29						14	17
6/28/2017		20	24	12	9.4	17		
8/29/2017		20	15	10	9.3	17		
8/30/2017	23						14	16
6/4/2018	22							
6/5/2018		18	16				13	15
6/6/2018				11	6.1	14		
9/10/2018	22		13					
9/11/2018		19		12	14		14	
9/12/2018						14		17
11/5/2018			13	17	18			
11/6/2018	17						14	15
11/7/2018		19				15		
3/26/2019				14.5	4.7		13	9.27
3/27/2019	18	17.1	14.2			14.9		
9/10/2019	18.1	16.5	8.88	10.9		13.5	12.8	12.7
9/11/2019					12.3			
4/20/2020					4.7		12	12.1
4/21/2020	19.5			9.49		14.8		
4/22/2020		17.6	20.5					
8/11/2020						12.7		12.1
8/12/2020							11.4	
8/17/2020	23.2							
8/18/2020		21.3	16.2	6.46	8.24			
3/9/2021						10.4		12
3/10/2021			17.1	9.3			11.9	
3/15/2021		23.2			7.68			
3/16/2021	16.6							
8/17/2021	34.4							10.4
8/24/2021		22.4						
8/25/2021			14.4	7.43	6.37	11.5	10.3	
3/29/2022				11.8			10.3	
3/30/2022			12.7					
4/4/2022	41.75 (D)	16.8 (D)				9.875 (D)		
4/6/2022					3.71			11.8 (D)
10/5/2022	7.1							
10/17/2022			22.4	12.9	12			

# Time Series

Constituent: Chloride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
10/18/2022		17.200001				10.4	8.54	10.1
5/16/2023	40.799999							
5/17/2023			18.799999					
5/23/2023							8.99	
5/24/2023		13.5				10		
5/30/2023				11.7				
5/31/2023					4.19			8.96



# Time Series

Constituent: Chloride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
3/30/2022				12.1				
4/4/2022	8.06 (D)					3.09		2.93
4/6/2022		24.35 (D)						
10/5/2022			12.3					
10/17/2022		26		13	0.973 (J)	3.19		
10/18/2022	10.7						32.299999	
10/19/2022								2.84
5/16/2023					1.08	3.74		
5/17/2023	10		9.92					
5/22/2023		24.4						
5/30/2023				9.44			19.9	2.89

# Time Series

Constituent: Chloride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				25.2				
4/12/2016				24.6				
6/1/2016				24.5				
8/15/2016				24.2				
8/16/2016			2.21		2.54	5.32	4.24	4.88
8/17/2016	1.78	1.77						
9/19/2016						5.29	4.13	4.45
9/20/2016	1.61	1.56	2.12		2.51			
10/11/2016			2.24	24.4	2.34	5.26	4.07	4.36
10/12/2016	1.51	1.54						
11/14/2016						5.28	4.08	4.42
11/15/2016	1.5	1.53	6.65		2.1			
1/3/2017						5.18	4.06	5.18
1/4/2017	1.53	1.58	2.15		2.44			
1/23/2017	1.62				2.37			
1/24/2017		1.71		24.6		5.41	4.4	
1/25/2017								5.66
1/26/2017			2.31					
5/9/2017	2.2	2.1	2.3	27	2.8			
5/10/2017						5.8	4.4	8
6/27/2017	1.9 (J)	2	2.1		2.1	5.4	4	7.2
6/28/2017				26				
8/29/2017	2							
8/30/2017		1.5 (J)	2.8	26	3	6	4.8	6.9
6/4/2018				27				
6/5/2018	1.9 (J)	1.2 (J)	1.8 (J)		2.3	5.2	3.8	4.2
9/11/2018	<2	<2	<2		1.5 (J)	5.5	4.1	4.2
9/12/2018				26				
11/5/2018						3.9		
11/6/2018	1.9 (J)	<2	<2	26	1.4 (J)	5.1		4.5
3/26/2019	2.18	1.2	1.07		2.42			
3/27/2019				24.8		5.26	3.9	4.33
9/9/2019				23.8				
9/11/2019	1.7	1.26	1.19		3.72	5.31	4.21	4.16
4/20/2020				24.5				
4/21/2020	1.9	1.32	1.09		3.89			
4/22/2020						5.37	4	5.66
8/11/2020						5.45		
8/12/2020							4.17	4.46
8/17/2020				24.6				
8/18/2020	1.63	1.38	1.05		3.8			
3/15/2021	2.46	1.27	1.25		4.38	5.47	5.57	4.18
3/16/2021				24.4				
8/17/2021				21.3				
8/18/2021	2.45	1.42	1.42		4.46			
8/23/2021						6.37	5.61	4.33
3/28/2022	1.96	1.35	1.24		4.12	6	3.98	5.47
4/5/2022				21.1 (D)				
10/5/2022				23.1		7.1	4.04	5.32
10/19/2022	2.01	1.23	1.08		3.7			
5/17/2023				21.6				
5/22/2023						3.95		4.53

# Time Series

Constituent: Chloride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
5/23/2023					7.44		
5/30/2023	2.05	1.35	1.27	3.16			

# Time Series

Constituent: Chloride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					37.9			
1/15/2019				13.4		14.3	13	16.6
1/16/2019		3.1						
1/17/2019	7.87							
1/30/2019			3.04					
9/10/2019	5.54						10.5	
9/11/2019		1.15	3.95		3.82	14.1		16.5
4/20/2020							10.8	
4/21/2020		3.62						
4/22/2020	7.6		4.4	10.3	2.25	12.9		
4/29/2020								16.1
8/11/2020			3.28			7.85		
8/12/2020	2.07						8.34	
8/18/2020		1.12						15.9
8/19/2020				13.9	3.4			
3/9/2021			2.9			8.06		
3/10/2021					2.3		6.74	
3/15/2021	5.81							15.9
3/16/2021		1.91		13				
8/23/2021	4.36							
8/24/2021		2.79	2.91	9.19	4.46	7.38		
8/25/2021							6.66	14.4
3/28/2022	3.52							
3/29/2022				5.57				
3/30/2022			3.04		3.8		5.72	
4/6/2022		1.48				8.39 (D)		13.6
10/5/2022							7.05	
10/17/2022		2.97	2.36	13.2				
10/18/2022					3.6	6.02		13.8
10/19/2022	3.71							
5/22/2023			2.34					
5/23/2023		2.92		12.9	4.23			
5/24/2023						6.51		
5/31/2023	6.86						6.63	13.3

# Time Series

Constituent: Chloride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	19.9							
1/16/2019		26.1	12.3					
9/11/2019	20.7	31.4	11.8					
4/20/2020			12	10.9				
4/21/2020	19.9	40.4					12.3	11.3
5/28/2020						4.92		
7/6/2020				4.5				
8/11/2020				4.27		3.18		
8/12/2020			10.8					
8/17/2020				8.99			11.9	
8/19/2020	18.2	46.9						7.53
3/8/2021					8.51	8.78		
3/9/2021	18.4	41.6						
3/10/2021			11.9	6.5			8.31	7.57
8/17/2021					7.84	8.79		
8/18/2021	17	35.8		9.94			4.07	5.3
8/23/2021			13.1					
3/23/2022					7.84	8.8		
3/29/2022				9.58				
3/30/2022							3.44	8.12
4/4/2022			13.7					
4/6/2022	15.65 (D)	37.7 (D)						
10/4/2022					5.71	3.86		
10/5/2022			7.16					
10/18/2022				9.25			4.34	
10/19/2022	17.6	33.900002						9.04
5/16/2023			14.9					
5/17/2023					5.62			
5/22/2023				8.49		3.95		
5/24/2023		30.5						
5/30/2023	16.6						2.77	8.09



# Time Series

Constituent: Chloride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	16.4							
4/12/2016	16.6							
5/31/2016	16.8							
8/17/2016	16.4							
10/11/2016	15.2							
1/24/2017	15.1							
5/9/2017	17							
6/28/2017	17							
8/30/2017	17							
6/5/2018	15							
9/11/2018	14							
11/6/2018	13							
3/27/2019	16.1							
9/11/2019	11.6							
4/20/2020				23.9	9.74		7.88	
4/21/2020	12.3							
5/28/2020		13.4				6.88		12.1
7/6/2020			103					
8/11/2020		11.2	87.4	21.2		6.21		12.1
8/12/2020	13				10.8		6.3	
3/8/2021		13.7	90					
3/9/2021						5.06		10.4
3/10/2021				19.4	11.5		55.3	
3/16/2021	10.9							
8/16/2021			60.9					
8/17/2021		14.5				4.25		10.8
8/23/2021	11.6			21.1	6.89		8.41	
3/23/2022		17.7	123			4.56		9.19
4/4/2022	9.63							
4/5/2022					8.175 (D)		19.55 (D)	
4/6/2022				8.09 (D)				
10/3/2022			62.400002					
10/4/2022		12.8				4.27		9.72
10/5/2022					<1		5.31	
10/17/2022	10.8			16.200001				
5/15/2023			74.199997					
5/17/2023	8.4							
5/23/2023		14.1			5.71	2.98	11.4	8.54
5/30/2023				12.7				

# Time Series

Constituent: Chloride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								67.9
2/17/2016	31.8						62.7	
4/12/2016	28.9							
4/13/2016							57.8	64.1
5/31/2016	28.7						55.6	
6/1/2016								66.3
8/17/2016	32.2						53.3	56.7
10/11/2016	34.2							
10/12/2016							51.2	56.1
1/24/2017	38.1							
1/25/2017							44.8	53.6
5/10/2017	41						44	48
6/28/2017	36						45	49
8/29/2017	35						43	52
6/5/2018	32						49	38
9/11/2018	36						52	37
11/7/2018	30						58	41
3/26/2019	31.9						71	39.7
9/10/2019	27.3						67	56.1
4/21/2020	37.4						66.2	69.5
8/19/2020	39.6						123	70.5
3/9/2021	47.5						80.7	106
8/17/2021		4.94	3.13	3.28	3.37	10.9		
8/24/2021	56.6						91.7	90.8
3/23/2022		4.08	2.07	3.19	2.42	16.1		
3/29/2022	45.3						94.7	95.4
10/4/2022		3.66	1.75	2.99	2.58	9.9		
10/18/2022	45						196	96.099998
5/17/2023						9.97		
5/22/2023				2.05	2.59			
5/23/2023		3.7	2.16					
5/30/2023	39.400002						208	76.599998

# Time Series

Constituent: Chloride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	15.6	
4/13/2016	14.3	
6/1/2016	12.6	
8/17/2016	14.4	
10/12/2016	16.4	
1/25/2017	20	
5/10/2017	24	
6/28/2017	25	
8/29/2017	25	
6/5/2018	25	
9/11/2018	26	
9/12/2018		12
11/7/2018	25	
3/26/2019	25.3	
9/10/2019	28	10.9
4/20/2020		9.87
4/21/2020	24.2	
8/17/2020		9.78
8/18/2020	31.4	
3/9/2021	53.9	
3/10/2021		8.48
8/17/2021		8.13
8/24/2021	90.7	
3/29/2022	225	
4/5/2022		7.86 (D)
10/5/2022		6.54
10/18/2022	106	
5/17/2023		7.79
5/30/2023	105	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.001015		<0.001015	<0.001015	<0.001015		
2/17/2016	<0.001015		<0.001015				<0.001015	<0.001015
4/12/2016					<0.001015	<0.001015	<0.001015	
4/13/2016	<0.001015	<0.001015	<0.001015	<0.001015				<0.001015
5/31/2016		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
6/1/2016	<0.001015							<0.001015
8/15/2016	<0.001015							<0.001015
8/16/2016		<0.001015	<0.001015	<0.001015	0.00381 (J)		<0.001015	
8/17/2016						<0.001015		
10/11/2016	<0.001015						<0.001015	
10/12/2016		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
1/24/2017	<0.001015						<0.001015	<0.001015
1/25/2017		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
5/9/2017	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015		
5/10/2017		<0.001015					<0.001015	<0.001015
6/27/2017	<0.001015						<0.001015	<0.001015
6/28/2017		<0.001015	<0.001015	<0.001015	0.00219 (J)	<0.001015		
2/27/2018	<0.001015	<0.001015	<0.001015			<0.001015		
2/28/2018				<0.001015	<0.001015		<0.001015	<0.001015
6/4/2018	<0.001015							
6/5/2018		<0.001015	<0.001015				<0.001015	<0.001015
6/6/2018				<0.001015	<0.001015	<0.001015		
11/5/2018			<0.001015	<0.001015	<0.001015			
11/6/2018	<0.001015						<0.001015	<0.001015
11/7/2018		<0.001015				<0.001015		
3/26/2019				<0.001015	<0.001015		<0.001015	<0.001015
3/27/2019	<0.001015	<0.001015	<0.001015			<0.001015		
9/10/2019	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015
9/11/2019					<0.001015			
4/20/2020					<0.001015		<0.001015	<0.001015
4/21/2020	<0.001015			<0.001015		<0.001015		
4/22/2020		<0.001015	<0.001015					
8/11/2020						<0.001015		<0.001015
8/12/2020							<0.001015	
8/17/2020	<0.001015							
8/18/2020		<0.001015	<0.001015	<0.001015	<0.001015			
3/9/2021						0.000357 (J)		0.000444 (J)
3/10/2021			<0.001015	0.000224 (J)			0.000301 (J)	
3/15/2021		0.000357 (J)			0.000311 (J)			
3/16/2021	0.000341 (J)							
8/17/2021	0.00034 (J)							0.0004 (J)
8/24/2021		0.00036 (J)						
8/25/2021			0.00027 (J)	0.00035 (J)	0.00026 (J)	0.00023 (J)	0.00027 (J)	
3/29/2022				0.00043 (J)			<0.001015	
3/30/2022			0.00023 (J)					
4/4/2022	0.00045 (J)	<0.001015				0.00025 (J)		
4/6/2022					0.0003 (J)			0.00034 (J)
10/5/2022	0.000287 (J)							
10/17/2022			0.000286 (J)	0.000332 (J)	0.000237 (J)			
10/18/2022		0.000217 (J)				<0.001015	<0.001015	0.000267 (J)
5/16/2023	0.000326 (J)							
5/17/2023			0.000293 (J)					

# Time Series

Constituent: Chromium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							<0.001015	
5/24/2023		0.000338 (J)				0.000305 (J)		
5/30/2023				<0.001015				
5/31/2023					0.000232 (J)			0.000327 (J)

# Time Series

Constituent: Chromium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.001015				
2/17/2016	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	
4/12/2016		<0.001015			<0.001015	<0.001015	<0.001015	
4/13/2016	<0.001015		<0.001015	<0.001015				
6/1/2016	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
8/15/2016	<0.001015	<0.001015	<0.001015					
8/16/2016				<0.001015	<0.001015	<0.001015		
8/17/2016							<0.001015	<0.001015
9/20/2016								<0.001015
10/11/2016			<0.001015		<0.001015	<0.001015	<0.001015	
10/12/2016	<0.001015	<0.001015		<0.001015				<0.001015
11/15/2016								<0.001015
1/4/2017								<0.001015
1/23/2017								<0.001015
1/24/2017	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	
1/25/2017				<0.001015				
5/9/2017			<0.001015	<0.001015	<0.001015		<0.001015	<0.001015
5/10/2017	<0.001015	<0.001015				<0.001015		
6/27/2017	<0.001015	<0.001015			<0.001015			<0.001015
6/28/2017			<0.001015	<0.001015		<0.001015	<0.001015	
2/27/2018			<0.001015		<0.001015	<0.001015		<0.001015
2/28/2018	<0.001015	<0.001015		<0.001015			<0.001015	
6/4/2018			<0.001015					
6/5/2018	<0.001015	<0.001015			<0.001015	<0.001015		<0.001015
6/6/2018				<0.001015			<0.001015	
11/5/2018				<0.001015				
11/6/2018	<0.001015	<0.001015	<0.001015				<0.001015	<0.001015
11/7/2018					<0.001015	<0.001015		
3/26/2019	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015		<0.001015
3/27/2019			<0.001015				<0.001015	
9/9/2019	<0.001015	<0.001015	<0.001015					
9/10/2019				<0.001015	<0.001015	<0.001015	<0.001015	
9/11/2019								<0.001015
4/21/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015			<0.001015
4/22/2020						<0.001015	<0.001015	
8/11/2020	<0.001015						<0.001015	
8/12/2020		<0.001015			<0.001015	<0.001015		
8/17/2020			<0.001015					
8/18/2020				<0.001015				<0.001015
3/9/2021	0.000216 (J)	0.000346 (J)						
3/10/2021				0.000333 (J)	0.000432 (J)	0.000433 (J)	0.0003 (J)	
3/15/2021								0.000474 (J)
3/16/2021			0.0004 (J)					
8/17/2021	0.00022 (J)	0.00023 (J)	0.00267					
8/18/2021								0.00022 (J)
8/24/2021					0.00043 (J)	0.00034 (J)	0.00028 (J)	
8/25/2021				0.00027 (J)				
3/28/2022			0.0003 (J)		0.00034 (J)			
3/29/2022							0.00041 (J)	
3/30/2022				0.00022 (J)				
4/4/2022	0.00022 (J)					0.00037 (J)		0.0003 (J)
4/6/2022		0.00031 (J)						

# Time Series

Constituent: Chromium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			0.000256 (J)					
10/17/2022		0.000294 (J)		0.00026 (J)	0.000347 (J)	0.000301 (J)		
10/18/2022	0.000211 (J)						<0.001015	
10/19/2022								0.00024 (J)
5/16/2023					0.000304 (J)	0.000248 (J)		
5/17/2023	0.0003 (J)		0.000305 (J)					
5/22/2023		0.000293 (J)						
5/30/2023				0.000232 (J)			0.000249 (J)	0.00028 (J)

# Time Series

Constituent: Chromium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.001015				
4/12/2016				<0.001015				
6/1/2016				<0.001015				
8/15/2016				<0.001015				
8/16/2016			<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
8/17/2016	<0.001015	<0.001015						
9/19/2016						<0.001015	<0.001015	<0.001015
9/20/2016	<0.001015	<0.001015	<0.001015		<0.001015			
10/11/2016			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/12/2016	<0.001015	<0.001015						
11/14/2016						<0.001015	<0.001015	<0.001015
11/15/2016	<0.001015	<0.001015	<0.001015		<0.001015			
1/3/2017						<0.001015	<0.001015	<0.001015
1/4/2017	<0.001015	<0.001015	<0.001015		<0.001015			
1/23/2017	<0.001015				<0.001015			
1/24/2017		<0.001015		<0.001015		<0.001015	<0.001015	
1/25/2017								<0.001015
1/26/2017			<0.001015					
5/9/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015			
5/10/2017						<0.001015	<0.001015	<0.001015
6/27/2017	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
6/28/2017				<0.001015				
2/27/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/4/2018				<0.001015				
6/5/2018	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
11/5/2018							<0.001015	
11/6/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
3/26/2019	<0.001015	<0.001015	<0.001015		<0.001015			
3/27/2019				<0.001015		<0.001015	<0.001015	<0.001015
9/9/2019				<0.001015				
9/11/2019	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
4/20/2020				<0.001015				
4/21/2020	<0.001015	<0.001015	<0.001015		<0.001015			
4/22/2020						<0.001015	<0.001015	<0.001015
8/11/2020						<0.001015		
8/12/2020							<0.001015	<0.001015
8/17/2020				<0.001015				
8/18/2020	<0.001015	<0.001015	<0.001015		<0.001015			
3/15/2021	0.000541 (J)	0.000995 (J)	0.000393 (J)		0.000502 (J)	0.000468 (J)	0.000431 (J)	0.000679 (J)
3/16/2021				0.000347 (J)				
8/17/2021				0.00032 (J)				
8/18/2021	0.00032 (J)	0.00071 (J)	0.00026 (J)		0.00033 (J)			
8/23/2021						0.00042 (J)	0.00038 (J)	0.0005 (J)
3/28/2022	0.00031 (J)	0.00072 (J)	0.00039 (J)		0.0004 (J)	0.00039 (J)	0.00042 (J)	0.00044 (J)
4/5/2022				0.00039 (J)				
10/5/2022				0.000286 (J)		0.000268 (J)	0.000301 (J)	0.000311 (J)
10/19/2022	0.00029 (J)	0.000678 (J)	0.000354 (J)		0.000423 (J)			
5/17/2023				0.000301 (J)				
5/22/2023							0.000355 (J)	0.000477 (J)
5/23/2023						0.000293 (J)		
5/30/2023	0.000287 (J)	0.000631 (J)	0.000345 (J)		0.000347 (J)			



# Time Series

Constituent: Chromium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.0117			
1/15/2019				<0.001015		<0.001015	<0.001015	<0.001015
1/16/2019		<0.001015						
1/17/2019	<0.001015							
1/30/2019			<0.001015					
9/10/2019	<0.001015						<0.001015	
9/11/2019		<0.001015	0.0155		<0.001015	<0.001015		<0.001015
4/20/2020							<0.001015	
4/21/2020		<0.001015						
4/22/2020	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015		
4/29/2020								<0.001015
8/11/2020			<0.001015			<0.001015		
8/12/2020	<0.001015						<0.001015	
8/18/2020		<0.001015						<0.001015
8/19/2020				<0.001015	<0.001015			
3/9/2021			0.00143			0.000342 (J)		
3/10/2021					0.000421 (J)		0.000226 (J)	
3/15/2021	0.000473 (J)							0.000553 (J)
3/16/2021		0.000912 (J)		0.000381 (J)				
8/23/2021	0.0003 (J)							
8/24/2021		0.00075 (J)	0.00096 (J)	0.00026 (J)	0.00038 (J)	0.00033 (J)		
8/25/2021							0.00023 (J)	0.00039 (J)
3/28/2022	0.00035 (J)							
3/29/2022				0.00037 (J)				
3/30/2022			0.00108		0.00037 (J)		0.0003 (J)	
4/6/2022		0.00051 (J)				0.00029 (J)		0.00052 (J)
10/5/2022							<0.001015	
10/17/2022		0.000588 (J)	0.00115	0.000624 (J)				
10/18/2022					0.00022 (J)	<0.001015		0.000486 (J)
10/19/2022	0.000255 (J)							
5/22/2023			0.00101 (J)					
5/23/2023		0.000525 (J)		0.000433 (J)	0.00043 (J)			
5/24/2023						<0.001015		
5/31/2023	0.000236 (J)						<0.001015	0.000386 (J)

# Time Series

Constituent: Chromium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.001015							
1/16/2019		<0.001015	<0.001015					
9/11/2019	0.00325 (J)	<0.001015	<0.001015					
4/20/2020			<0.001015	<0.001015				
4/21/2020	<0.001015	<0.001015					<0.001015	<0.001015
5/28/2020						<0.001015		
7/6/2020					<0.001015			
8/11/2020					<0.001015	<0.001015		
8/12/2020			<0.001015					
8/17/2020				<0.001015			<0.001015	
8/19/2020	<0.001015	<0.001015						<0.001015
3/8/2021					<0.001015	<0.001015		
3/9/2021	0.000286 (J)	0.000227 (J)						
3/10/2021			0.000428 (J)	0.000314 (J)			0.00026 (J)	0.000366 (J)
8/17/2021					0.00028 (J)	0.00039 (J)		
8/18/2021	<0.001015	<0.001015		0.0003 (J)			0.00022 (J)	0.0004 (J)
8/23/2021			0.0003 (J)					
3/23/2022					0.00032 (J)	0.0004 (J)		
3/29/2022				0.00026 (J)				
3/30/2022							0.00024 (J)	0.00021 (J)
4/4/2022			0.00022 (J)					
4/6/2022	0.00028 (J)	0.00026 (J)						
10/4/2022					0.000215 (J)	<0.001015		
10/5/2022			<0.001015					
10/18/2022				0.00023 (J)			0.000309 (J)	
10/19/2022	<0.001015	0.000235 (J)						0.000244 (J)
5/16/2023			0.000387 (J)					
5/17/2023					<0.001015			
5/22/2023				0.000234 (J)		<0.001015		
5/24/2023		0.00022 (J)						
5/30/2023	0.000242 (J)						<0.001015	0.000292 (J)

# Time Series

Constituent: Chromium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.001015							
4/12/2016	<0.001015							
5/31/2016	<0.001015							
8/17/2016	<0.001015							
10/11/2016	<0.001015							
1/24/2017	<0.001015							
5/9/2017	<0.001015							
6/28/2017	<0.001015							
2/27/2018	<0.001015							
6/5/2018	<0.001015							
11/6/2018	<0.001015							
3/27/2019	<0.001015							
9/11/2019	<0.001015							
4/20/2020				<0.001015	<0.001015		<0.001015	
4/21/2020	<0.001015							
5/28/2020		<0.001015				<0.001015		0.00515 (J)
7/6/2020			<0.001015					
8/11/2020		<0.001015	<0.001015	<0.001015		<0.001015		<0.001015
8/12/2020	<0.001015				<0.001015		<0.001015	
3/8/2021		0.00028 (J)	<0.001015					
3/9/2021						0.000619 (J)		0.000256 (J)
3/10/2021				0.000474 (J)	0.000574 (J)		0.000271 (J)	
3/16/2021	0.000285 (J)							
8/16/2021			0.00038 (J)					
8/17/2021		0.00081 (J)				0.00064 (J)		0.00057 (J)
8/23/2021	0.00027 (J)			0.00046 (J)	0.00039 (J)		0.00029 (J)	
3/23/2022		0.00051 (J)	0.00035 (J)			0.00107		0.00031 (J)
4/4/2022	0.00025 (J)							
4/5/2022					0.0003 (J)		0.00042 (J)	
4/6/2022				0.00047 (J)				
10/3/2022			0.000213 (J)					
10/4/2022		<0.001015				0.000584 (J)		<0.001015
10/5/2022					0.000414 (J)		<0.001015	
10/17/2022	0.000348 (J)			0.000567 (J)				
5/15/2023			0.000224 (J)					
5/17/2023	<0.001015							
5/23/2023		<0.001015			0.000239 (J)	0.000518 (J)	0.000406 (J)	<0.001015
5/30/2023				0.000512 (J)				

# Time Series

Constituent: Chromium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.001015
2/17/2016	<0.001015						<0.001015	
4/12/2016	<0.001015							
4/13/2016							<0.001015	<0.001015
5/31/2016	<0.001015						<0.001015	
6/1/2016								<0.001015
8/17/2016	<0.001015						<0.001015	<0.001015
10/11/2016	<0.001015							
10/12/2016							<0.001015	<0.001015
1/24/2017	<0.001015							
1/25/2017							<0.001015	<0.001015
5/10/2017	<0.001015						<0.001015	<0.001015
6/28/2017	<0.001015						<0.001015	<0.001015
2/27/2018	<0.001015						<0.001015	<0.001015
6/5/2018	<0.001015						<0.001015	<0.001015
11/7/2018	<0.001015						<0.001015	<0.001015
3/26/2019	<0.001015						<0.001015	<0.001015
9/10/2019	<0.001015						<0.001015	<0.001015
4/21/2020	<0.001015						<0.001015	<0.001015
8/19/2020	<0.001015						<0.001015	<0.001015
3/9/2021	0.000347 (J)						0.000351 (J)	0.000346 (J)
8/17/2021		0.00065 (J)	0.00057 (J)	0.00067 (J)	0.00035 (J)	0.00086 (J)		
8/24/2021	0.00026 (J)						0.00036 (J)	0.00031 (J)
3/23/2022		0.00111	0.00065 (J)	0.00072 (J)	0.00045 (J)	0.00061 (J)		
3/29/2022	<0.001015						0.00024 (J)	0.00027 (J)
10/4/2022		0.000421 (J)	0.000587 (J)	0.000435 (J)	0.000384 (J)	0.000348 (J)		
10/18/2022	0.000228 (J)						0.000297 (J)	0.000217 (J)
5/17/2023						0.00046 (J)		
5/22/2023				0.000466 (J)	<0.001015			
5/23/2023		<0.001015	0.000502 (J)					
5/30/2023	0.000234 (J)						0.000284 (J)	0.000233 (J)

# Time Series

Constituent: Chromium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.001015	
4/13/2016	<0.001015	
6/1/2016	<0.001015	
8/17/2016	<0.001015	
10/12/2016	<0.001015	
1/25/2017	<0.001015	
5/10/2017	<0.001015	
6/28/2017	<0.001015	
2/27/2018	<0.001015	
6/5/2018	<0.001015	
11/7/2018	<0.001015	
3/26/2019	<0.001015	
9/10/2019	<0.001015	<0.001015
4/20/2020		<0.001015
4/21/2020	<0.001015	
8/17/2020		<0.001015
8/18/2020	<0.001015	
3/9/2021	0.000381 (J)	
3/10/2021		0.000247 (J)
8/17/2021		0.00033 (J)
8/24/2021	0.0003 (J)	
3/29/2022	0.00027 (J)	
4/5/2022		0.00047 (J)
10/5/2022		0.000226 (J)
10/18/2022	0.000238 (J)	
5/17/2023		0.000317 (J)
5/30/2023	0.000368 (J)	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.0135		<0.000203	<0.000203	0.00732 (J)		
2/17/2016	0.0395		0.0504				0.0169	0.016
4/12/2016					<0.000203	0.00785 (J)	0.0158	
4/13/2016	0.0452	0.0155	0.0448	<0.000203				0.0139
5/31/2016		0.0146	0.0405	<0.000203	<0.000203	0.00712 (J)	0.014	
6/1/2016	0.0576							0.0117
8/15/2016	0.0573							0.0133
8/16/2016		0.016	0.0464	<0.000203	<0.000203		0.0153	
8/17/2016						0.00545 (J)		
10/11/2016	0.0531						0.0162	
10/12/2016		0.0154	0.0489	<0.000203	<0.000203	0.00497 (J)		0.0147
1/24/2017	0.0539						0.0132	0.0122
1/25/2017		0.0139	0.0417	<0.000203	<0.000203	0.00454 (J)		
5/9/2017	0.057		0.0471	<0.000203	<0.000203	0.00488 (J)		
5/10/2017		0.0144					0.014	0.0133
6/27/2017	0.0664						0.0163	0.0141
6/28/2017		0.0134	0.0664	<0.000203	<0.000203	0.00805 (J)		
2/27/2018	0.0652	0.0148	0.0438			0.016		
2/28/2018				<0.000203	<0.000203		0.0157	0.014
6/4/2018	0.0758							
6/5/2018		0.0139	0.036				0.0148	0.0114
6/6/2018				<0.000203	<0.000203	0.024		
11/5/2018			0.0171	<0.000203	<0.000203			
11/6/2018	0.0898						0.0158	0.0141
11/7/2018		0.015				0.0124		
3/26/2019				<0.000203	<0.000203		0.0184	0.0177
3/27/2019	0.176	0.014	0.0292			0.0303		
9/10/2019	0.104	0.0191	0.02	<0.000203		0.0278	0.0201	0.0162
9/11/2019					<0.000203			
4/20/2020					<0.000203		0.0189	0.0146
4/21/2020	0.206			<0.000203		0.0339		
4/22/2020		0.0233	0.0319					
8/11/2020						0.0373		0.0148
8/12/2020							0.0184	
8/17/2020	0.195							
8/18/2020		0.0287	0.0298	<0.000203	<0.000203			
3/9/2021						0.0302		0.0162
3/10/2021			0.0197	0.00118			0.0189	
3/15/2021		0.0475			0.000312			
3/16/2021	0.257							
8/17/2021	0.24							0.0155
8/24/2021		0.0514						
8/25/2021			0.0507	0.00094	7E-05 (J)	0.0436	0.0181	
3/29/2022				0.00088			0.0172	
3/30/2022			0.0157					
4/4/2022	0.296	0.0218				0.0423		
4/6/2022					0.00126			0.0147
10/5/2022	0.226							
10/17/2022			0.0256	0.00077	0.00424			
10/18/2022		0.0223				0.0349	0.0189	0.0143
5/16/2023	0.236							
5/17/2023			0.0296					

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							0.0182	
5/24/2023		0.0176				0.0346		
5/30/2023				0.000536				
5/31/2023					0.00348			0.0136

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.000203				
2/17/2016	0.0101	0.0227	0.00989 (J)		<0.000203	0.00219 (J)	0.00683 (J)	
4/12/2016		0.0209			<0.000203	<0.000203	0.00656 (J)	
4/13/2016	0.0109		0.0106	<0.000203				
6/1/2016	0.0134	0.02	0.011	<0.000203	<0.000203	<0.000203	0.00637 (J)	
8/15/2016	0.0134	0.0225	0.0117					
8/16/2016				<0.000203	<0.000203	<0.000203		
8/17/2016							0.00659 (J)	0.0167
9/20/2016								0.0122
10/11/2016			0.0117		<0.000203	<0.000203	0.00687 (J)	
10/12/2016	0.0204	0.0206		<0.000203				0.00839 (J)
11/15/2016								0.00562 (J)
1/4/2017								0.00655 (J)
1/23/2017								0.0116
1/24/2017	0.0157	0.015	0.00863 (J)		<0.000203	<0.000203	0.00522 (J)	
1/25/2017				<0.000203				
5/9/2017			0.00975 (J)	<0.000203	<0.000203		0.00646 (J)	0.0167
5/10/2017	0.0179	0.0141				<0.000203		
6/27/2017	0.0166	0.0144			<0.000203			0.0109
6/28/2017			0.0102	<0.000203		<0.000203	0.00721 (J)	
2/27/2018			0.00924 (J)		<0.000203	<0.000203		0.00278 (J)
2/28/2018	0.0251	0.0136		<0.000203			0.00771 (J)	
6/4/2018			0.00866 (J)					
6/5/2018	0.0456	0.0138			<0.000203	<0.000203		0.00223 (J)
6/6/2018				<0.000203			0.00712 (J)	
11/5/2018				<0.000203				
11/6/2018	0.0321	0.0158	0.0101				0.00791	0.00202 (J)
11/7/2018					<0.000203	<0.000203		
3/26/2019	0.0192	0.0161		<0.000203	<0.000203	<0.000203		<0.000203
3/27/2019			0.0131				0.0114	
9/9/2019	0.0121	0.0174	0.0154					
9/10/2019				<0.000203	<0.000203	<0.000203	0.0127	
9/11/2019								<0.000203
4/21/2020	0.0158	0.0173	0.0194	<0.000203	<0.000203			<0.000203
4/22/2020						<0.000203	0.0133	
8/11/2020	0.0122						0.0126	
8/12/2020		0.0152			<0.000203	<0.000203		
8/17/2020			0.0249					
8/18/2020				<0.000203				0.00279 (J)
3/9/2021	0.0151	0.017						
3/10/2021				0.00204	<0.000203	0.000676	0.0115	
3/15/2021								0.000606
3/16/2021			0.0272					
8/17/2021	0.0109	0.0175	0.0296					
8/18/2021								0.00067
8/24/2021					<0.000203	0.00073	0.0117	
8/25/2021				0.00147				
3/28/2022			0.0309		<0.000203			
3/29/2022							0.0101	
3/30/2022				0.00284				
4/4/2022	0.0115					0.00073		0.00045
4/6/2022		0.0183						



# Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			0.0293					
10/17/2022		0.0201		0.00501	<0.000203	0.000595		
10/18/2022	0.00934						0.00995	
10/19/2022								0.000438
5/16/2023					<0.000203	0.000596		
5/17/2023	0.00834		0.0394					
5/22/2023		0.019						
5/30/2023				0.00318			0.016	0.000497

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				0.00507 (J)			
4/12/2016				0.0047 (J)			
6/1/2016				0.00372 (J)			
8/15/2016				0.0039 (J)			
8/16/2016			0.0122	0.00548 (J)	<0.000203	<0.000203	0.00923 (J)
8/17/2016	0.00692 (J)	0.00599 (J)					
9/19/2016					0.00242 (J)	<0.000203	0.00539 (J)
9/20/2016	0.00232 (J)	0.00466 (J)	0.012	0.0026 (J)			
10/11/2016			0.0135	0.00415 (J)	0.00214 (J)	0.0024 (J)	<0.000203
10/12/2016	<0.000203	0.00394 (J)					
11/14/2016					<0.000203	<0.000203	0.00399 (J)
11/15/2016	<0.000203	0.00296 (J)	0.00938 (J)	<0.000203			
1/3/2017					0.00217 (J)	<0.000203	0.0037 (J)
1/4/2017	<0.000203	0.00448 (J)	0.00859 (J)	<0.000203			
1/23/2017	0.00203 (J)			<0.000203			
1/24/2017		0.00259 (J)		0.00383 (J)	0.00239 (J)	<0.000203	
1/25/2017							0.0077 (J)
1/26/2017			0.0104				
5/9/2017	<0.000203	<0.000203	0.0119	0.00396 (J)	<0.000203		
5/10/2017					<0.000203	<0.000203	0.00291 (J)
6/27/2017	<0.000203	<0.000203	0.0106		<0.000203	<0.000203	0.00247 (J)
6/28/2017				0.00336 (J)			
2/27/2018	<0.000203	<0.000203	0.0027 (J)	0.00442 (J)	<0.000203	<0.000203	<0.000203
6/4/2018				0.0038 (J)			
6/5/2018	<0.000203	<0.000203	0.00317 (J)	<0.000203	<0.000203	<0.000203	<0.000203
11/5/2018						<0.000203	
11/6/2018	<0.000203	<0.000203	0.00367 (J)	0.00439 (J)	<0.000203	<0.000203	<0.000203
3/26/2019	<0.000203	<0.000203	<0.000203	<0.000203			
3/27/2019				0.00463 (J)	<0.000203	<0.000203	<0.000203
9/9/2019				0.00413 (J)			
9/11/2019	<0.000203	<0.000203	0.00265 (J)	<0.000203	<0.000203	<0.000203	<0.000203
4/20/2020				0.00396 (J)			
4/21/2020	<0.000203	<0.000203	<0.000203	<0.000203			
4/22/2020					<0.000203	<0.000203	<0.000203
8/11/2020					<0.000203		
8/12/2020						<0.000203	<0.000203
8/17/2020				<0.000203			
8/18/2020	<0.000203	<0.000203	0.00224 (J)	<0.000203			
3/15/2021	0.000139 (J)	0.000452	0.00145		0.000137 (J)	0.000624	0.000908
3/16/2021				0.00076			
8/17/2021				0.00039			
8/18/2021	0.00016 (J)	0.00036	0.0019		0.00011 (J)		
8/23/2021						0.0006	0.00105
3/28/2022	0.00014 (J)	0.00052	0.00079		7E-05 (J)	0.00061	<0.000203
4/5/2022				0.00083			
10/5/2022				0.000297		0.000728	<0.000203
10/19/2022	0.000139 (J)	0.000326	0.00112		8E-05 (J)		0.000909
5/17/2023				0.000658			
5/22/2023						<0.000203	0.00117
5/23/2023					0.000627		
5/30/2023	0.00012 (J)	0.000213	0.00097	<0.000203			

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.000203			
1/15/2019				0.0407		0.0173	0.0203	0.0044 (J)
1/16/2019		<0.000203						
1/17/2019	0.033							
1/30/2019			<0.000203					
9/10/2019	0.0131						0.0139	
9/11/2019		<0.000203	<0.000203		0.00363 (J)	0.0194		0.00897
4/20/2020							0.0132	
4/21/2020		<0.000203						
4/22/2020	0.00675		<0.000203	0.0327	<0.000203	0.0192		
4/29/2020								0.00777
8/11/2020			<0.000203			0.0176		
8/12/2020	0.00222 (J)						0.00717	
8/18/2020		<0.000203						0.00814
8/19/2020				0.0176	<0.000203			
3/9/2021			0.000522			0.0178		
3/10/2021					0.000455		0.00791	
3/15/2021	0.00198							0.00472
3/16/2021		<0.000203		0.0225				
8/23/2021	0.00159							
8/24/2021		<0.000203	0.00032	0.0228	0.00071	0.0183		
8/25/2021							0.00901	0.0101
3/28/2022	0.00117							
3/29/2022				0.0198				
3/30/2022			0.0007		0.00034		0.0103	
4/6/2022		8E-05 (J)				0.0173		0.0185
10/5/2022							0.00884	
10/17/2022		<0.000203	0.00039	0.00563				
10/18/2022					0.000519	0.0151		0.015
10/19/2022	0.00114							
5/22/2023			0.000322					
5/23/2023		<0.000203		0.0147	0.000842			
5/24/2023						0.0153		
5/31/2023	0.00151						0.0131	0.018

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	0.0281							
1/16/2019		0.0131	0.106					
9/11/2019	0.0449	0.0143	0.106					
4/20/2020			0.324	0.00451 (J)				
4/21/2020	0.0359	0.0162					0.00236 (J)	0.00799
5/28/2020						<0.000203		
7/6/2020					<0.000203			
8/11/2020					<0.000203	<0.000203		
8/12/2020			0.273					
8/17/2020				0.00458 (J)			<0.000203	
8/19/2020	0.037	0.0173						0.00853
3/8/2021					0.00155	<0.000203		
3/9/2021	0.0559	0.0175						
3/10/2021			0.415	0.00442			0.000388	0.00662
8/17/2021					0.00295	0.00025		
8/18/2021	0.0436	0.0196		0.0119			0.0004	0.00507
8/23/2021			0.428					
3/23/2022					0.0053	0.00025		
3/29/2022				0.0108				
3/30/2022							0.00018 (J)	0.00562
4/4/2022			0.323					
4/6/2022	0.0651	0.0184						
10/4/2022					0.00561	0.000117 (J)		
10/5/2022			0.288					
10/18/2022				0.00703			0.000226	
10/19/2022	0.0693	0.02						0.00683
5/16/2023			0.25					
5/17/2023					0.00276			
5/22/2023				0.0097		7.6E-05 (J)		
5/24/2023		0.0181						
5/30/2023	0.05						0.000144 (J)	0.00769

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.0216							
4/12/2016	0.0205							
5/31/2016	0.0196							
8/17/2016	0.0169							
10/11/2016	0.0157							
1/24/2017	0.00858 (J)							
5/9/2017	0.00755 (J)							
6/28/2017	0.0069 (J)							
2/27/2018	0.00471 (J)							
6/5/2018	0.00481 (J)							
11/6/2018	0.00545							
3/27/2019	0.00614							
9/11/2019	0.00767							
4/20/2020				0.119	0.0203		0.0862	
4/21/2020	0.00601							
5/28/2020		0.00801				<0.000203		0.0445
7/6/2020			0.0158					
8/11/2020		0.0056	0.0129	0.0859		<0.000203		0.022
8/12/2020	0.00678				0.0272		0.0857	
3/8/2021		0.00553	0.0153					
3/9/2021						0.000738		0.0263
3/10/2021				0.0204	0.0239		0.0345	
3/16/2021	0.00857							
8/16/2021			0.0146					
8/17/2021		0.00608				0.00095		0.0216
8/23/2021	0.00645			0.0233	0.031		0.0477	
3/23/2022		0.0096	0.0164			0.00102		0.0281
4/4/2022	0.0104							
4/5/2022					0.0265		0.0191	
4/6/2022				0.00706				
10/3/2022			0.0122					
10/4/2022		0.00685				0.000975		0.0187
10/5/2022					0.0331		0.0334	
10/17/2022	0.0062			0.00583				
5/15/2023			0.011					
5/17/2023	0.00833							
5/23/2023		0.00702			0.0346	0.000861	0.0208	0.0275
5/30/2023				0.00406				

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								0.0129
2/17/2016	<0.000203						<0.000203	
4/12/2016	<0.000203							
4/13/2016							0.00218 (J)	0.0139
5/31/2016	0.00389 (J)						0.00328 (J)	
6/1/2016								0.0139
8/17/2016	0.00234 (J)						0.00217 (J)	0.0138
10/11/2016	0.00202 (J)							
10/12/2016							0.00225 (J)	0.0138
1/24/2017	<0.000203							
1/25/2017							<0.000203	0.0115
5/10/2017	<0.000203						<0.000203	0.0125
6/28/2017	<0.000203						<0.000203	0.0137
2/27/2018	<0.000203						<0.000203	0.00698 (J)
6/5/2018	0.00237 (J)						<0.000203	0.00478 (J)
11/7/2018	0.00258 (J)						0.00277 (J)	0.00651
3/26/2019	0.00223 (J)						0.0024 (J)	0.00445 (J)
9/10/2019	0.00306 (J)						0.0034 (J)	0.0108
4/21/2020	0.00228 (J)						0.00206 (J)	0.0111
8/19/2020	0.00278 (J)						0.0046 (J)	0.00975
3/9/2021	0.00367						0.00181	0.00707
8/17/2021		0.00077	0.00049	0.00033	0.00081	0.00348		
8/24/2021	0.00419						0.00333	0.00898
3/23/2022		0.0007	0.00037	0.00038	0.00031	0.00419		
3/29/2022	0.00223						0.0014	0.00619
10/4/2022		0.00073	0.000471	0.000286	0.000312	0.00315		
10/18/2022	0.00233						0.00301	0.00537
5/17/2023						0.00301		
5/22/2023				0.000552	0.000174 (J)			
5/23/2023		0.000587	0.000335					
5/30/2023	0.00194						0.00279	0.00504

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	0.00869 (J)	
4/13/2016	0.00936 (J)	
6/1/2016	0.00976 (J)	
8/17/2016	0.012	
10/12/2016	0.0127	
1/25/2017	0.0109	
5/10/2017	0.0129	
6/28/2017	0.0125	
2/27/2018	0.013	
6/5/2018	0.0113	
11/7/2018	0.0145	
3/26/2019	0.0167	
9/10/2019	0.0177	0.146
4/20/2020		0.157
4/21/2020	0.0166	
8/17/2020		0.148
8/18/2020	0.0164	
3/9/2021	0.0247	
3/10/2021		0.167
8/17/2021		0.211
8/24/2021	0.0323	
3/29/2022	0.0267	
4/5/2022		0.39
10/5/2022		0.528
10/18/2022	0.0297	
5/17/2023		0.755
5/30/2023	0.0258	

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<3		<3	<3	<3		
2/17/2016	<3		<3				<3	<3
4/12/2016					<3	<3	<3	
4/13/2016	1.0468 (U)	<3	<3	<3				<3
5/31/2016		0.899	0.145 (U)	0.21 (U)	0.313 (U)	0.624	0.41 (U)	
6/1/2016	1.43							0.515
8/15/2016	1.42							0.843
8/16/2016		0.82	0.521 (U)	0.697	0.435 (U)		0.399 (U)	
8/17/2016						0.49 (U)		
10/11/2016	1.6						0.00389 (U)	
10/12/2016		0.92	0.669 (U)	0.421 (U)	-0.0137 (U)	-0.0237 (U)		0.397 (U)
1/24/2017	1.3						0.35 (U)	0.269 (U)
1/25/2017		1.2	0.789	0.265 (U)	0.309 (U)	0.455 (U)		
5/9/2017	0.844		0.647	-0.132 (U)	0.42	0.451		
5/10/2017		0.665					0.0662 (U)	0.454
6/27/2017	1.32						0.793	1.25
6/28/2017		0.29 (U)	0.415	0.493	0.373	0.63		
2/27/2018			0.864	1.89	1.25	1.59		
2/28/2018	0.815	0.558					3.99	1.17
6/4/2018	1.01							
6/5/2018		0.698	0.244 (U)				-0.365 (U)	0.337 (U)
6/6/2018				0.114 (U)	0.258 (U)	0.943		
11/5/2018			0.682	0.048 (U)	0.441 (U)			
11/6/2018	0.938						0.391 (U)	0.661
11/7/2018		0.568				0.888		
3/26/2019				0.381	0.471		0.535	1.18
3/27/2019	1.17	0.988	0.564			1.1		
9/10/2019	1.39	1.1	0.57	0.434 (U)		0.852	0.3 (U)	0.516 (U)
9/11/2019					0.557 (U)			
4/20/2020					0.256 (U)		0.693	0.493 (U)
4/21/2020	0.712			-0.0655 (U)		0.653		
4/22/2020		1.11	0.502 (U)					
8/11/2020						1.64		1.48
8/12/2020							0.983	
8/17/2020	1.46							
8/18/2020		1.08	0.457 (U)	0.135 (U)	0.568 (U)			
3/9/2021						1.28 (U)		1.2 (U)
3/10/2021			0.666 (U)	0.481 (U)			0.335 (U)	
3/15/2021		1.12 (U)			0.537 (U)			
3/16/2021	1.45							
8/17/2021	1.36							0.49 (U)
8/24/2021		1.45						
8/25/2021			0.729 (U)	0.113 (U)	0.3 (U)	1.01	0.314 (U)	
3/29/2022				1.37			0.273 (U)	
3/30/2022			0.597 (U)					
4/4/2022	0.899	2.08				1.03		
4/6/2022					0.338 (U)			1 (U)
10/5/2022	1.12							
10/17/2022			0.175 (U)	0.99 (U)	0.529 (U)			
10/18/2022		1.04				1.25	0.69 (U)	0.772 (U)
5/16/2023	0.881 (U)							
5/17/2023			0.741 (U)					



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							0.723 (U)	
5/24/2023		1.6				1.67		
5/30/2023				1.14				
5/31/2023					0.512 (U)			2

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<3				
2/17/2016	<3	<3	<3		<3	<3	<3	
4/12/2016		<3			<3	<3	<3	
4/13/2016	<3		<3	<3				
6/1/2016	0.972	1.55	0.758	0.126 (U)	0.044 (U)	0.407	0.1 (U)	
8/15/2016	1.43	1.85	0.638					
8/16/2016				0.477	0.213 (U)	0.547 (U)		
8/17/2016							0.372 (U)	0.66
9/20/2016								0.582
10/11/2016			0.701		0.184 (U)	0.845	0.277 (U)	
10/12/2016	0.246 (U)	0.481		0.137 (U)				-0.183 (U)
11/15/2016								0.262 (U)
1/4/2017								0.255 (U)
1/23/2017								0.871
1/24/2017	0.918	0.889	0.515 (U)		0.251 (U)	0.403 (U)	0.585	
1/25/2017				0.55				
5/9/2017			0.393 (U)	0.182 (U)	0.631		0.489	0.575
5/10/2017	1.27	1.01				0.645		
6/27/2017	1.51	1.17			0.145 (U)			0.459
6/28/2017			0.374	0.228 (U)		0.93	0.333	
2/27/2018		0.702	0.334 (U)	0.293 (U)	0.402 (U)	1.88	1.08	1.3
2/28/2018	1.05							
6/4/2018			0.64					
6/5/2018	1.07	0.999			0.313 (U)	1.13		0.269 (U)
6/6/2018				-0.056 (U)			0.016 (U)	
11/5/2018				0.637				
11/6/2018	1.05	0.913	0.803				0.0751 (U)	0.328 (U)
11/7/2018					0.496 (U)	1.72		
3/26/2019	1.57	1.35		0.405	0.315 (U)	1.21		0.571
3/27/2019			0.77				0.309 (U)	
9/9/2019	1.29	1.08	0.3 (U)					
9/10/2019				0.0889 (U)	0.219 (U)	1.21	0.578	
9/11/2019								0.561
4/21/2020	0.859	0.888	0.663 (U)	0.271 (U)	0.166 (U)			0.215 (U)
4/22/2020						0.791	0.218 (U)	
8/11/2020	2.14						0.511 (U)	
8/12/2020		1.17				0.986	0.919	
8/17/2020			0.817					
8/18/2020				-0.0105 (U)				2.3
3/9/2021	2.27	1.11 (U)						
3/10/2021				0.418 (U)	1.01 (U)	2.15	1.03 (U)	
3/15/2021								0.347 (U)
3/16/2021			1.05 (U)					
8/17/2021	1.97	2.04	2.01					
8/18/2021								0.327 (U)
8/24/2021					0.735 (U)	1.23	0.693 (U)	
8/25/2021				0.305 (U)				
3/28/2022			0.745 (U)		0.99 (U)			
3/29/2022							0.37 (U)	
3/30/2022				1.04				
4/4/2022	2.17					1.43		0.55 (U)
4/6/2022		1.18 (U)						

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			1.89					
10/17/2022		0.84 (U)		0.772 (U)	0.72 (U)	1.28		
10/18/2022	1.22						0.617 (U)	
10/19/2022								0.298 (U)
5/16/2023					0.291 (U)	1.19		
5/17/2023	2.29		1.32					
5/22/2023		1.48 (U)						
5/30/2023				0.732 (U)			1.6	0.491 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<3				
4/12/2016				<3				
6/1/2016				1.06				
8/15/2016				0.972				
8/16/2016			0.522		0.434 (U)	1.34	0.951	0.534 (U)
8/17/2016	0.386 (U)	1.47						
9/19/2016						0.561 (U)	0.242 (U)	0.238 (U)
9/20/2016	0.794	1.24	0.746		0.51			
10/11/2016			0.819	0.802	0.166 (U)	0.118 (U)	0.34 (U)	0.158 (U)
10/12/2016	0.81	0.899						
11/14/2016						0.984	0.447 (U)	0.641
11/15/2016	0.366 (U)	0.933	0.516		0.589			
1/3/2017						0.473 (U)	0.729	0.834
1/4/2017	0.356 (U)	1.54	0.648 (U)		0.659			
1/23/2017	0.429 (U)				0.227 (U)			
1/24/2017		0.868		1.1		-0.422 (U)	0.184 (U)	
1/25/2017								0.605
1/26/2017			0.852					
5/9/2017	0.62	1.22	0.148 (U)	0.74	0.436 (U)			
5/10/2017						0.706		0.563
5/31/2017							0.454	
6/27/2017	0.319 (U)	0.925	0.393		0.197 (U)	0.412	-0.111 (U)	0.937
6/28/2017				0.867				
2/27/2018	0.271 (U)	0.0271 (U)	0.695	0.905	0.896	0.314 (U)	0.146 (U)	0.475
6/4/2018				0.954				
6/5/2018	0.391	0.792	0.145 (U)		0.342 (U)	0.218 (U)	-0.128 (U)	1.65
11/5/2018							0.0946 (U)	
11/6/2018	0.646	0.926	0.513 (U)	1.27	0.928	0.566 (U)		1.55
3/26/2019	0.498	1.08	0.598		1.3			
3/27/2019				1.47		0.29 (U)	0.5	1.83
9/9/2019				1.12				
9/11/2019	0.368 (U)	0.995	0.237 (U)		0.995	0.28 (U)	-0.464 (U)	1.02
4/20/2020				0.899				
4/21/2020	0.55	0.307 (U)	0.201 (U)		0.00976 (U)			
4/22/2020						0.0983 (U)	0.474 (U)	1.08
8/11/2020						0.767		
8/12/2020							3.18	3.41
8/17/2020				0.738				
8/18/2020	0.504 (U)	0.797	3.88		3.33			
3/15/2021	0.578 (U)	1.5	0.618 (U)		0.601 (U)	0.817 (U)	1.11 (U)	0.771 (U)
3/16/2021				0.553 (U)				
8/17/2021				1.09				
8/18/2021	0.941 (U)	0.779 (U)	0.937 (U)		1.22 (U)			
8/23/2021						0.345 (U)	1.09	1.01 (U)
3/28/2022	0.733 (U)	0.554 (U)	0.529 (U)		0.714 (U)	0.413 (U)	0.682 (U)	1.36
4/5/2022				0.532 (U)				
10/5/2022				0.688 (U)		0.837 (U)	0.467 (U)	1.02
10/19/2022	0.654 (U)	1.51	0.629 (U)		0.481 (U)			
5/17/2023				1.1 (U)				
5/22/2023							0.602 (U)	2.36
5/23/2023						0.475 (U)		
5/30/2023	1.45	1.08 (U)	1.01 (U)		1.19			

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.359 (U)			
1/15/2019				0.354 (U)		0.901	0.387 (U)	0.839
1/16/2019		0.0207 (U)						
1/17/2019	0.628							
1/30/2019			0.479 (U)					
9/10/2019	0.656						0.519 (U)	
9/11/2019		0.734	0.412 (U)		1.22	1.16		0.13 (U)
4/20/2020							0.66	
4/21/2020		0.423 (U)						
4/22/2020	0.473 (U)		-0.103 (U)	0.273 (U)	0.413 (U)	1.48		
4/29/2020								0.684
8/11/2020			0.223 (U)			2.02		
8/12/2020	2.1						0.928	
8/18/2020		0.636 (U)						0.742
8/19/2020				0.994	0.347 (U)			
3/9/2021			0.296 (U)			1.62		
3/10/2021					0.566 (U)		0.522 (U)	
3/15/2021	0.858 (U)							0.946 (U)
3/16/2021		0.536 (U)		0.954 (U)				
8/23/2021	0.336 (U)							
8/24/2021		0.492 (U)	0.253 (U)	0.282 (U)	0.417 (U)	0.823 (U)		
8/25/2021							1.09 (U)	0.938 (U)
3/28/2022	0.466 (U)			0.405 (U)				
3/29/2022				0.405 (U)				
3/30/2022			0.174 (U)		0.248 (U)		0.745 (U)	
4/6/2022		0.108 (U)				1.24		1.12
10/5/2022							0.814 (U)	
10/17/2022		0.533 (U)	0.65 (U)	0.881 (U)				
10/18/2022					0.54 (U)	1.18		1.65
10/19/2022	0.0804 (U)							
5/22/2023			0.668 (U)					
5/23/2023		0.593 (U)		0.804 (U)	0.38 (U)			
5/24/2023						1.52		
5/31/2023	1.33						2.06	1.3

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	0.739							
1/16/2019		0.426 (U)	0.422 (U)					
9/11/2019	0.195 (U)	0.558 (U)	0.637 (U)					
4/20/2020			0.386 (U)	0.529				
4/21/2020	0.678	1.89					0.251 (U)	0.594
5/28/2020						-0.0036 (U)		
7/6/2020					0.292 (U)			
8/11/2020					0.477 (U)	0.208 (U)		
8/12/2020			4.07					
8/17/2020				1.16			1.11	
8/19/2020	0.687	1.99						0.0107 (U)
3/8/2021					0.291 (U)	0.568 (U)		
3/9/2021	0.618 (U)	1.54						
3/10/2021			0.923 (U)	0.21 (U)			0.57 (U)	0.261 (U)
8/17/2021					0.651 (U)	0.339 (U)		
8/18/2021	1.9	1.64		1.1			0.595 (U)	1.11 (U)
8/23/2021			1.13					
3/23/2022					0.547 (U)	0.214 (U)		
3/29/2022				0.661 (U)				
3/30/2022							0.315 (U)	0.254 (U)
4/4/2022			0.795 (U)					
4/6/2022	1.01	1.84						
10/4/2022					0.744 (U)	0.714 (U)		
10/5/2022			1.17					
10/18/2022				0.914 (U)			0.152 (U)	
10/19/2022	1.77	1.67						0.484 (U)
5/16/2023			0.741 (U)					
5/17/2023					0.641 (U)			
5/22/2023				1.24 (U)		0.154 (U)		
5/24/2023		1.79						
5/30/2023	1.45						0.667 (U)	0.788 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<3							
4/12/2016	<3							
5/31/2016	2.11							
8/17/2016	2.28							
10/11/2016	1.83							
1/24/2017	1.92							
5/9/2017	3.05							
6/28/2017	2.24							
2/27/2018	1.01							
6/5/2018	1.39							
11/6/2018	1.72							
3/27/2019	1.56							
9/11/2019	1.46							
4/20/2020				1.13	1		1.5	
4/21/2020	0.882							
5/28/2020		0.612				0.0544 (U)		2.27
7/6/2020			0.432 (U)					
8/11/2020		0.883	0.777	1.56		0.462 (U)		0.997
8/12/2020	2.08				2.14		0.991	
3/8/2021		1 (U)	2.06					
3/9/2021						1.02 (U)		1.6
3/10/2021				1.29 (U)	1.41		1.25 (U)	
3/16/2021	1.71							
8/16/2021			1.3					
8/17/2021		0.939 (U)				0.442 (U)		1.19 (U)
8/23/2021	2.11			2.06	0.978 (U)		1.52	
3/23/2022		0.908 (U)	0.999			0.748 (U)		1.02 (U)
4/4/2022	1.13							
4/5/2022					0.963 (U)		0.689 (U)	
4/6/2022				1.59				
10/3/2022			2.13					
10/4/2022		0.402 (U)				0.823 (U)		1.23
10/5/2022					1.56		1.18	
10/17/2022	1.93			1.34				
5/15/2023			1.07 (U)					
5/17/2023	1.25 (U)							
5/23/2023		0.673 (U)			1.95	0.553 (U)	1.61	0.928 (U)
5/30/2023				1.16				

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<3
2/17/2016	<3						<3	
4/12/2016	<3							
4/13/2016							<3	<3
5/31/2016	0.453 (U)						0.658	
6/1/2016								0.884
8/17/2016	0.381 (U)						0.936	1.06
10/11/2016	0.139 (U)							
10/12/2016							0.668	0.269 (U)
1/24/2017	0.496							
1/25/2017							0.718	1.12
5/10/2017	0.278 (U)						0.56	0.887
6/28/2017	0.724						0.526	0.908
2/27/2018	0.214 (U)						0.803	
2/28/2018								0.131 (U)
6/5/2018	0.176 (U)						0.577	0.564
11/7/2018	1.39						1.51	0.34 (U)
3/26/2019	0.904						0.841	0.507
9/10/2019	1.14						0.569 (U)	0.898
4/21/2020	0.679 (U)						0.549 (U)	1.09
8/19/2020	0.96						1.04	0.6 (U)
3/9/2021	1.12 (U)						0.545 (U)	1.6
8/17/2021		0.612 (U)	0.404 (U)	0.437 (U)	0.219 (U)	0.56 (U)		
8/24/2021	0.645 (U)						0.865 (U)	1.67
3/23/2022		0.932 (U)	0.201 (U)	0.829 (U)	0.207 (U)	1.03		
3/29/2022	0.394 (U)						0.575 (U)	0.621 (U)
10/4/2022		0.583 (U)	0.572 (U)	1.03	0.862 (U)	0.702 (U)		
10/18/2022	1.02						1.19	0.741 (U)
5/17/2023						0.541 (U)		
5/22/2023				1.06 (U)	0.568 (U)			
5/23/2023		0.565 (U)	1.01 (U)					
5/30/2023	0.77 (U)						0.777 (U)	1.17



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<3	
4/13/2016	<3	
6/1/2016	0.532	
8/17/2016	1.07	
10/12/2016	1.07	
1/25/2017	1.46	
5/10/2017	1.21	
6/28/2017	0.821	
2/28/2018	0.232 (U)	
6/5/2018	0.722	
11/7/2018	0.82	
3/26/2019	1.49	
3/27/2019		1.69
9/10/2019	1.75	1.89
4/20/2020		1.59
4/21/2020	1.31	
8/17/2020		1.16
8/18/2020	1.59	
3/9/2021	1.16 (U)	
3/10/2021		1.36 (U)
8/17/2021		1.76
8/24/2021	1.43	
3/29/2022	1.25	
4/5/2022		1.73
10/5/2022		1.73
10/18/2022	1.29	
5/17/2023		2.36
5/30/2023	2.26	

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.23 (J)		0.16 (J)	0.14 (J)	0.13 (J)		
2/17/2016	0.05 (J)		0.11 (J)				0.09 (J)	0.2 (J)
4/12/2016					0.119 (J)	0.137 (J)	0.107 (J)	
4/13/2016	0.061 (J)	0.236 (J)	0.119 (J)	0.163 (J)				0.173 (J)
5/31/2016		0.255 (J)	0.134 (J)	0.19 (J)	0.132 (J)	0.149 (J)	0.145 (J)	
6/1/2016	0.079 (J)							0.253 (J)
8/15/2016	0.081 (J)							0.224 (J)
8/16/2016		0.238 (J)	0.116 (J)	0.219 (J)	0.177 (J)		0.135 (J)	
8/17/2016						0.147 (J)		
10/11/2016	0.049 (J)						0.096 (J)	
10/12/2016		0.198 (J)	0.076 (J)	0.163 (J)	0.149 (J)	0.115 (J)		0.187 (J)
3/14/2017	0.04 (J)		0.09 (J)			0.11	0.09 (J)	0.23
3/15/2017		0.22		0.13	0.16			
5/9/2017	0.05 (J)		0.11	0.15	0.18	0.14		
5/10/2017		0.25					0.11	0.23
6/27/2017	0.04 (J)						0.1	0.22
6/28/2017		0.09 (J)	0.17	0.17	0.18	0.13		
8/29/2017		0.26	0.14	0.22	0.19	0.14		
8/30/2017	0.04 (J)						0.13	0.28
2/27/2018	0.07 (J)	0.26	0.14			0.13		
2/28/2018				0.19	0.14		0.09 (J)	0.23
6/4/2018	0.07 (J)							
6/5/2018		0.24	0.16				0.13	0.28
6/6/2018				0.19	0.13	0.15		
11/5/2018			0.15	0.2	0.15			
11/6/2018	0.04 (J)						0.12	0.24
11/7/2018		0.25				0.19		
3/26/2019				0.196	0.0775 (J)		0.113	0.316
3/27/2019	0.192	0.206	0.104			0.248		
9/10/2019	0.179	0.226	0.191	0.26		0.209	0.122	0.267
9/11/2019					0.118			
4/20/2020					0.0844 (J)		0.14	0.245
4/21/2020	0.12			0.198		0.254		
4/22/2020		0.224	0.167					
8/11/2020						0.278		0.294
8/12/2020							0.147	
8/17/2020	0.115							
8/18/2020		0.203	0.165	0.223	0.108			
3/9/2021						0.263		0.286
3/10/2021			0.0749 (J)	0.161			0.115	
3/15/2021		0.324			0.0737 (J)			
3/16/2021	0.129							
8/17/2021	0.158							0.286
8/24/2021		0.277						
8/25/2021			0.135	0.188	0.111	0.239	0.167	
3/29/2022				0.107 (J)			0.117 (J)	
3/30/2022			<0.125					
4/4/2022	0.124 (JD)	0.2785 (D)				0.226 (D)		
4/6/2022					<0.125			0.2395 (D)
10/5/2022	0.125							
10/17/2022			0.118 (J)	0.197	<0.125			
10/18/2022		0.248				0.211	0.139	0.27

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/16/2023	0.144							
5/17/2023			0.157					
5/23/2023							0.144	
5/24/2023		0.303				0.258		
5/30/2023				0.18				
5/31/2023					0.102 (J)			0.284

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				0.18 (J)				
2/17/2016	0.53	0.15 (J)	0.09 (J)		0.08 (J)	0.02 (J)	0.02 (J)	
4/12/2016		0.168 (J)			0.077 (J)	0.026 (J)	0.021 (J)	
4/13/2016	0.437		0.092 (J)	0.191 (J)				
6/1/2016	0.376	0.178 (J)	0.108 (J)	0.201 (J)	0.101 (J)	0.057 (J)	0.051 (J)	
8/15/2016	0.362	0.149 (J)	0.105 (J)					
8/16/2016				0.218 (J)	0.093 (J)	0.046 (J)		
8/17/2016							0.037 (J)	0.159 (J)
9/20/2016								0.126 (J)
10/11/2016			0.062 (J)		0.059 (J)	<0.125	<0.125	
10/12/2016	0.377	0.12 (J)		0.171 (J)				0.1 (J)
11/15/2016								0.016 (J)
1/4/2017								<0.125
3/13/2017								0.31 (o)
3/14/2017	0.41	0.17	<0.125		0.07 (J)	<0.125	<0.125	
3/15/2017				0.16				
5/9/2017			0.07 (J)	0.17	0.08 (J)		<0.125	0.25 (o)
5/10/2017	0.36	0.17				<0.125		
6/27/2017	0.38	0.18			0.08 (J)			0.22 (o)
6/28/2017			0.09 (J)	0.18		<0.125	0.04 (J)	
8/29/2017				0.23	0.1	0.04 (J)	<0.125	0.22 (o)
8/30/2017	0.38	0.21	0.07 (J)					
2/27/2018			0.08 (J)		0.08 (J)	<0.125		0.08 (J)
2/28/2018	0.58	0.17		0.2			<0.125	
6/4/2018			0.09 (J)					
6/5/2018	0.41	0.17			0.09 (J)	0.04 (J)		0.07 (J)
6/6/2018				0.19			<0.125	
11/5/2018				0.22				
11/6/2018	0.45	0.17	0.07 (J)				<0.125	0.07 (J)
11/7/2018					0.08 (J)	<0.125		
3/26/2019	0.573	0.192		0.219	0.123	<0.125		<0.125
3/27/2019			0.089 (J)				<0.125	
9/9/2019	0.477	0.157	0.163					
9/10/2019				0.194	0.0914 (J)	0.0545 (J)	<0.125	
9/11/2019								0.0716 (J)
4/21/2020	0.565	0.171	0.126	0.173	0.095 (J)			<0.125
4/22/2020						<0.125	<0.125	
8/11/2020	0.515						<0.125	
8/12/2020		0.198			0.0867 (J)	<0.125		
8/17/2020			0.0753 (J)					
8/18/2020				0.18				<0.125
3/9/2021	0.628	0.205						
3/10/2021				0.113	0.085 (J)	<0.125	0.104	
3/15/2021								<0.125
3/16/2021			0.185					
8/17/2021	0.494	0.212	0.0974 (J)					
8/18/2021								<0.125
8/24/2021					0.0713 (J)	<0.125	0.0914 (J)	
8/25/2021				0.117				
3/28/2022			0.105 (J)		<0.125			
3/29/2022							0.0724 (J)	
3/30/2022				<0.125				

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
4/4/2022	0.5855 (D)					<0.125		<0.125
4/6/2022		0.1385 (JD)						
10/5/2022			0.124 (J)					
10/17/2022		0.176		0.0988 (J)	<0.125	<0.125		
10/18/2022	0.544						0.0955 (J)	
10/19/2022								<0.125
5/16/2023					0.0935 (J)	<0.125		
5/17/2023	0.535		0.0918 (J)					
5/22/2023		0.186						
5/30/2023				0.135			0.0807 (J)	0.0642 (J)

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				0.08 (J)				
4/12/2016				0.083 (J)				
6/1/2016				0.118 (J)				
8/15/2016				0.109 (J)				
8/16/2016			0.05 (J)		0.036 (J)	0.087 (J)	0.054 (J)	0.061 (J)
8/17/2016	0.039 (J)	0.055 (J)						
9/19/2016						0.045 (J)	0.023 (J)	0.018 (J)
9/20/2016	0.01 (o)	0.021 (o)	0.015 (J)		<0.125			
10/11/2016			<0.125	0.066 (J)	<0.125	0.034 (J)	0.011 (J)	<0.125
10/12/2016	<0.125	<0.125						
11/14/2016						<0.125	<0.125	<0.125
11/15/2016	<0.125	<0.125	<0.125		<0.125			
1/3/2017						<0.125	<0.125	<0.125
1/4/2017	<0.125	<0.125	<0.125		<0.125			
3/13/2017			<0.125					
3/14/2017	<0.125	<0.125		0.07 (J)	<0.125	<0.125	<0.125	<0.125
5/9/2017	<0.125	<0.125	<0.125	0.09 (J)	<0.125			
5/10/2017						0.05 (J)	0.05 (J)	0.06 (J)
6/27/2017	<0.125	<0.125	<0.125		<0.125	0.05 (J)	0.04 (J)	0.07 (J)
6/28/2017				0.1				
8/29/2017	<0.125							
8/30/2017		<0.125	<0.125	0.12	<0.125	<0.125	0.04 (J)	0.08 (J)
2/27/2018	<0.125	<0.125	<0.125	0.09 (J)	<0.125	<0.125	0.04 (J)	0.07 (J)
6/4/2018				0.1				
6/5/2018	<0.125	<0.125	<0.125		<0.125	<0.125	0.04 (J)	0.1
11/5/2018							<0.125	
11/6/2018	<0.125	<0.125	<0.125	0.1	<0.125	<0.125		0.08 (J)
3/26/2019	<0.125	<0.125	<0.125		<0.125			
3/27/2019				0.13		<0.125	<0.125	<0.125
9/9/2019				0.121				
9/11/2019	<0.125	0.0649 (J)	<0.125		<0.125	<0.125	0.0518 (J)	<0.125
4/20/2020				0.112				
4/21/2020	<0.125	<0.125	<0.125		<0.125			
4/22/2020						<0.125	<0.125	<0.125
8/11/2020						<0.125		
8/12/2020							<0.125	<0.125
8/17/2020				0.148				
8/18/2020	<0.125	<0.125	<0.125		<0.125			
3/15/2021	<0.125	<0.125	<0.125		<0.125	<0.125	<0.125	<0.125
3/16/2021				0.23				
8/17/2021				0.184				
8/18/2021	<0.125	<0.125	<0.125		<0.125			
8/23/2021						<0.125	<0.125	<0.125
3/28/2022	<0.125	<0.125	<0.125		<0.125	<0.125	<0.125	<0.125
4/5/2022				0.146 (JD)				
10/5/2022				0.12 (J)		0.0671 (J)	<0.125	<0.125
10/19/2022	<0.125	0.0698 (J)	<0.125		<0.125			
5/17/2023				0.147				
5/22/2023						<0.125	<0.125	<0.125
5/23/2023						<0.125		
5/30/2023	0.0734 (J)	<0.125	<0.125		<0.125			

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.0841 (J)			
1/15/2019				0.0512 (J)		0.465	0.0981 (J)	0.0859 (J)
1/16/2019		<0.125						
1/17/2019	<0.125							
1/30/2019			0.264					
9/10/2019	<0.125						0.18	
9/11/2019		0.082 (J)	0.289		0.142	0.443		0.0609 (J)
4/20/2020							0.0952 (J)	
4/21/2020		0.16						
4/22/2020	<0.125		0.279	0.197	0.135	0.446		
4/29/2020								0.0857 (J)
8/11/2020			0.325			0.494		
8/12/2020	<0.125						0.145	
8/18/2020		0.0766 (J)						0.092 (J)
8/19/2020				0.141	0.149			
3/9/2021			0.365			0.458		
3/10/2021					0.131		0.112	
3/15/2021	<0.125							0.0721 (J)
3/16/2021		0.0841 (J)		0.263				
8/23/2021	<0.125							
8/24/2021		0.0681 (J)	0.318	0.194	0.197	0.508		
8/25/2021							0.142	0.074 (J)
3/28/2022	<0.125							
3/29/2022				0.189				
3/30/2022			0.301		0.0661 (J)		<0.125	
4/6/2022		<0.125				0.3765 (D)		<0.125
10/5/2022							0.133	
10/17/2022		<0.125	0.347	0.138				
10/18/2022					0.151	0.423		<0.125
10/19/2022	<0.125							
5/22/2023			0.356					
5/23/2023		0.116 (J)		0.141	0.144			
5/24/2023						0.442		
5/31/2023	<0.125						0.105 (J)	0.0663 (J)

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.125							
1/16/2019		0.0888 (J)	0.0727 (J)					
9/11/2019	0.063 (J)	0.127	0.0783 (J)					
4/20/2020			0.0638 (J)	0.176				
4/21/2020	0.0701 (J)	0.147					<0.125	0.075 (J)
5/28/2020						0.0647 (J)		
7/6/2020				0.185				
8/11/2020				0.169		<0.125		
8/12/2020			0.0867 (J)					
8/17/2020				0.195			<0.125	
8/19/2020	0.077 (J)	0.154						0.0823 (J)
3/8/2021					0.187	<0.125		
3/9/2021	0.0697 (J)	0.135						
3/10/2021			0.0611 (J)	0.176			<0.125	<0.125
8/17/2021					0.177	<0.125		
8/18/2021	0.111	0.166		0.172			<0.125	0.0638 (J)
8/23/2021			0.11					
3/23/2022					0.158	<0.125		
3/29/2022				0.162				
3/30/2022							<0.125	0.0724 (J)
4/4/2022			<0.125					
4/6/2022	0.0957 (JD)	0.11535 (JD)						
10/4/2022					0.151	0.0647 (J)		
10/5/2022			0.104 (J)					
10/18/2022				0.147			<0.125	
10/19/2022	<0.125	0.134						0.0628 (J)
5/16/2023			0.114 (J)					
5/17/2023					0.181			
5/22/2023				0.154		<0.125		
5/24/2023		0.126						
5/30/2023	0.089 (J)						0.087 (J)	0.0965 (J)



# Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.22 (J)							
4/12/2016	0.214 (J)							
5/31/2016	0.232 (J)							
8/17/2016	0.225 (J)							
10/11/2016	0.19 (J)							
3/14/2017	0.22							
5/9/2017	0.21							
6/28/2017	0.21							
8/30/2017	0.25							
2/27/2018	0.23							
6/5/2018	0.24							
11/6/2018	0.22							
3/27/2019	0.208							
9/11/2019	0.2							
4/20/2020				0.154	0.25		0.189	
4/21/2020	0.224							
5/28/2020		0.138				<0.125		0.0914 (J)
7/6/2020			0.0721 (J)					
8/11/2020		0.16	0.0762 (J)	0.133		<0.125		0.137
8/12/2020	0.221				0.275		0.165	
3/8/2021		0.127	0.0628 (J)					
3/9/2021						<0.125		0.0715 (J)
3/10/2021				0.135	0.25		0.112	
3/16/2021	0.282							
8/16/2021			0.0613 (J)					
8/17/2021		0.155				<0.125		0.096 (J)
8/23/2021	0.322			0.245	0.328		0.244	
3/23/2022		0.16	0.0894 (J)			<0.125		0.0775 (J)
4/4/2022	0.216							
4/5/2022					0.2325 (D)		<0.125 (D)	
4/6/2022				0.0946 (JD)				
10/3/2022			0.102 (J)					
10/4/2022		0.157				<0.125		0.0929 (J)
10/5/2022					0.261		0.165	
10/17/2022	0.192			0.136				
5/15/2023			0.104 (J)					
5/17/2023	0.24							
5/23/2023		0.135			0.258	<0.125	0.101 (J)	0.0764 (J)
5/30/2023				0.167				

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								0.08 (J)
2/17/2016	0.17 (J)						0.07 (J)	
4/12/2016	0.203 (J)							
4/13/2016							0.081 (J)	0.088 (J)
5/31/2016	0.212 (J)						0.103 (J)	
6/1/2016								0.109 (J)
8/17/2016	0.19 (J)						0.078 (J)	0.089 (J)
10/11/2016	0.15 (J)							
10/12/2016							0.041 (J)	0.048 (J)
3/14/2017	0.18						0.07 (J)	
3/15/2017								0.08 (J)
5/10/2017	0.19						0.09 (J)	0.1
6/28/2017	0.18						0.08 (J)	0.09 (J)
8/29/2017	0.22						0.09 (J)	0.11
2/27/2018	0.22						0.08 (J)	0.11
6/5/2018	0.23						0.08 (J)	0.11
11/7/2018	0.22						0.08 (J)	0.11
3/26/2019	0.253						0.106	0.162
9/10/2019	0.227						0.086 (J)	0.113
4/21/2020	0.218						0.0951 (J)	0.114
8/19/2020	0.223						0.103	0.116
3/9/2021	0.17						0.0949 (J)	0.109
8/17/2021		<0.125	0.142	0.0716 (J)	<0.125	0.225		
8/24/2021	0.161						0.1	0.141
3/23/2022		<0.125	0.0871 (J)	<0.125	<0.125	0.251		
3/29/2022	0.193						0.104 (J)	0.108 (J)
10/4/2022		<0.125	0.0748 (J)	<0.125	<0.125	0.212		
10/18/2022	0.154						0.0649 (J)	0.0981 (J)
5/17/2023						0.253		
5/22/2023				0.0868 (J)	<0.125			
5/23/2023		<0.125	0.0836 (J)					
5/30/2023	0.193						0.111 (J)	0.179

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	0.16 (J)	
4/13/2016	0.15 (J)	
6/1/2016	0.19 (J)	
8/17/2016	0.171 (J)	
10/12/2016	0.137 (J)	
3/15/2017	0.15	
5/10/2017	0.17	
6/28/2017	0.16	
8/29/2017	0.19	
2/27/2018	0.19	
6/5/2018	0.19	
11/7/2018	0.2	
3/26/2019	0.223	
9/10/2019	0.178	0.0831 (J)
4/20/2020		0.132
4/21/2020	0.181	
8/17/2020		0.0959 (J)
8/18/2020	0.177	
3/9/2021	0.147	
3/10/2021		0.118
8/17/2021		0.117
8/24/2021	0.164	
3/29/2022	<0.125	
4/5/2022		0.12105 (JD)
10/5/2022		0.192
10/18/2022	0.156	
5/17/2023		0.0997 (J)
5/30/2023	0.127	

# Time Series

Constituent: Lead (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.000203		<0.000203	<0.000203	<0.000203		
2/17/2016	<0.000203		<0.000203				<0.000203	<0.000203
4/12/2016					<0.000203	<0.000203	<0.000203	
4/13/2016	<0.000203	<0.000203	<0.000203	<0.000203				<0.000203
5/31/2016		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
6/1/2016	<0.000203							<0.000203
8/15/2016	<0.000203							<0.000203
8/16/2016		<0.000203	<0.000203	<0.000203	<0.000203		<0.000203	
8/17/2016						<0.000203		
10/11/2016	<0.000203						<0.000203	
10/12/2016		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
1/24/2017	<0.000203						<0.000203	<0.000203
1/25/2017		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
5/9/2017	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203		
5/10/2017		<0.000203					<0.000203	<0.000203
6/27/2017	<0.000203						<0.000203	<0.000203
6/28/2017		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
2/27/2018	<0.000203	<0.000203	<0.000203			<0.000203		
2/28/2018				<0.000203	<0.000203		<0.000203	<0.000203
6/4/2018	<0.000203							
6/5/2018		<0.000203	<0.000203				<0.000203	<0.000203
6/6/2018				<0.000203	<0.000203	<0.000203		
11/5/2018			<0.000203	<0.000203	<0.000203			
11/6/2018	<0.000203						<0.000203	<0.000203
11/7/2018		<0.000203				<0.000203		
3/26/2019				<0.000203	<0.000203		<0.000203	<0.000203
3/27/2019	<0.000203	<0.000203	<0.000203			<0.000203		
9/10/2019	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203
9/11/2019					<0.000203			
4/20/2020					<0.000203		<0.000203	<0.000203
4/21/2020	<0.000203			<0.000203		<0.000203		
4/22/2020		<0.000203	<0.000203					
8/11/2020						<0.000203		<0.000203
8/12/2020							<0.000203	
8/17/2020	<0.000203							
8/18/2020		<0.000203	<0.000203	<0.000203	<0.000203			
3/9/2021						<0.000203		0.000109 (J)
3/10/2021			<0.000203	<0.000203			<0.000203	
3/15/2021		<0.000203			<0.000203			
3/16/2021	<0.000203							
8/17/2021	<0.000203							0.00011 (J)
8/24/2021		<0.000203						
8/25/2021			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
3/29/2022				<0.000203			<0.000203	
3/30/2022			<0.000203					
4/4/2022	<0.000203	<0.000203				<0.000203		
4/6/2022					<0.000203			9E-05 (J)
10/5/2022	<0.000203							
10/17/2022			<0.000203	<0.000203	<0.000203			
10/18/2022		<0.000203				<0.000203	<0.000203	8.9E-05 (J)
5/16/2023	<0.000203							
5/17/2023			<0.000203					

# Time Series

Constituent: Lead (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							<0.000203	
5/24/2023		<0.000203				<0.000203		
5/30/2023				<0.000203				
5/31/2023					<0.000203			0.000145 (J)

# Time Series

Constituent: Lead (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.000203				
2/17/2016	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	
4/12/2016		<0.000203			<0.000203	<0.000203	<0.000203	
4/13/2016	<0.000203		<0.000203	<0.000203				
6/1/2016	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
8/15/2016	<0.000203	<0.000203	0.00104 (J)					
8/16/2016				<0.000203	<0.000203	<0.000203		
8/17/2016							<0.000203	<0.000203
9/20/2016								<0.000203
10/11/2016			<0.000203		<0.000203	<0.000203	<0.000203	
10/12/2016	<0.000203	<0.000203		<0.000203				<0.000203
11/15/2016								<0.000203
1/4/2017								<0.000203
1/23/2017								<0.000203
1/24/2017	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	
1/25/2017				<0.000203				
5/9/2017			<0.000203	<0.000203	<0.000203		<0.000203	<0.000203
5/10/2017	<0.000203	<0.000203				<0.000203		
6/27/2017	<0.000203	<0.000203			<0.000203			<0.000203
6/28/2017			<0.000203	<0.000203		<0.000203	<0.000203	
2/27/2018			<0.000203		<0.000203	<0.000203		<0.000203
2/28/2018	<0.000203	<0.000203		<0.000203			<0.000203	
6/4/2018			<0.000203					
6/5/2018	<0.000203	<0.000203			<0.000203	<0.000203		<0.000203
6/6/2018				<0.000203			<0.000203	
11/5/2018				<0.000203				
11/6/2018	<0.000203	<0.000203	<0.000203				<0.000203	<0.000203
11/7/2018					<0.000203	<0.000203		
3/26/2019	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203		<0.000203
3/27/2019			<0.000203				<0.000203	
9/9/2019	<0.000203	<0.000203	<0.000203					
9/10/2019				<0.000203	<0.000203	<0.000203	<0.000203	
9/11/2019								<0.000203
4/21/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203			<0.000203
4/22/2020						<0.000203	<0.000203	
8/11/2020	<0.000203						<0.000203	
8/12/2020		<0.000203			<0.000203	<0.000203		
8/17/2020			<0.000203					
8/18/2020				<0.000203				<0.000203
3/9/2021	<0.000203	<0.000203						
3/10/2021				<0.000203	<0.000203	<0.000203	8.84E-05 (J)	
3/15/2021								6.99E-05 (J)
3/16/2021			0.000736					
8/17/2021	<0.000203	<0.000203	0.00059					
8/18/2021								7E-05 (J)
8/24/2021					<0.000203	<0.000203	<0.000203	
8/25/2021				<0.000203				
3/28/2022			0.00066		<0.000203			
3/29/2022							<0.000203	
3/30/2022				<0.000203				
4/4/2022	<0.000203					<0.000203		<0.000203
4/6/2022		<0.000203						

# Time Series

Constituent: Lead (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			0.000453					
10/17/2022		<0.000203		<0.000203	<0.000203	<0.000203		
10/18/2022	<0.000203						<0.000203	
10/19/2022								<0.000203
5/16/2023					<0.000203	<0.000203		
5/17/2023	<0.000203		0.000464					
5/22/2023		<0.000203						
5/30/2023				<0.000203			<0.000203	<0.000203

# Time Series

Constituent: Lead (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.000203				
4/12/2016				<0.000203				
6/1/2016				<0.000203				
8/15/2016				<0.000203				
8/16/2016			<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
8/17/2016	<0.000203	<0.000203						
9/19/2016						<0.000203	<0.000203	<0.000203
9/20/2016	<0.000203	<0.000203	<0.000203		<0.000203			
10/11/2016			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
10/12/2016	<0.000203	<0.000203						
11/14/2016						<0.000203	<0.000203	<0.000203
11/15/2016	<0.000203	<0.000203	<0.000203		<0.000203			
1/3/2017						<0.000203	<0.000203	<0.000203
1/4/2017	<0.000203	<0.000203	<0.000203		<0.000203			
1/23/2017	<0.000203				<0.000203			
1/24/2017		<0.000203		<0.000203		<0.000203	<0.000203	
1/25/2017								<0.000203
1/26/2017			<0.000203					
5/9/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203			
5/10/2017						<0.000203	<0.000203	<0.000203
6/27/2017	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
6/28/2017				<0.000203				
2/27/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
6/4/2018				<0.000203				
6/5/2018	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
11/5/2018							<0.000203	
11/6/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
3/26/2019	<0.000203	<0.000203	<0.000203		<0.000203			
3/27/2019				<0.000203		<0.000203	<0.000203	<0.000203
9/9/2019				<0.000203				
9/11/2019	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
4/20/2020				<0.000203				
4/21/2020	<0.000203	<0.000203	<0.000203		<0.000203			
4/22/2020						<0.000203	<0.000203	<0.000203
8/11/2020						<0.000203		
8/12/2020							<0.000203	<0.000203
8/17/2020				<0.000203				
8/18/2020	<0.000203	<0.000203	<0.000203		<0.000203			
3/15/2021	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	0.000121 (J)	<0.000203
3/16/2021				<0.000203				
8/17/2021				<0.000203				
8/18/2021	<0.000203	<0.000203	<0.000203		<0.000203			
8/23/2021						<0.000203	0.00015 (J)	<0.000203
3/28/2022	<0.000203	<0.000203	<0.000203		<0.000203	0.00015 (J)	<0.000203	0.00015 (J)
4/5/2022				<0.000203				
10/5/2022				<0.000203		<0.000203	<0.000203	0.000115 (J)
10/19/2022	<0.000203	<0.000203	<0.000203		<0.000203			
5/17/2023				<0.000203				
5/22/2023							<0.000203	0.000193 (J)
5/23/2023						<0.000203		
5/30/2023	<0.000203	<0.000203	<0.000203		<0.000203			



# Time Series

Constituent: Lead (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.000203			
1/15/2019				<0.000203		<0.000203	<0.000203	<0.000203
1/16/2019		<0.000203						
1/17/2019	<0.000203							
1/30/2019			<0.000203					
9/10/2019	<0.000203						<0.000203	
9/11/2019		<0.000203	<0.000203		<0.000203	<0.000203		<0.000203
4/20/2020							<0.000203	
4/21/2020		<0.000203						
4/22/2020	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203		
4/29/2020								<0.000203
8/11/2020			<0.000203			<0.000203		
8/12/2020	<0.000203						<0.000203	
8/18/2020		<0.000203						<0.000203
8/19/2020				<0.000203	<0.000203			
3/9/2021			0.000447			<0.000203		
3/10/2021					<0.000203		<0.000203	
3/15/2021	<0.000203							<0.000203
3/16/2021		<0.000203		<0.000203				
8/23/2021	<0.000203							
8/24/2021		<0.000203	0.00031	<0.000203	<0.000203	<0.000203		
8/25/2021							<0.000203	<0.000203
3/28/2022	<0.000203							
3/29/2022				<0.000203				
3/30/2022			0.00037		<0.000203		<0.000203	
4/6/2022		<0.000203				<0.000203		8E-05 (J)
10/5/2022							<0.000203	
10/17/2022		<0.000203	0.000349	<0.000203				
10/18/2022					<0.000203	<0.000203		<0.000203
10/19/2022	<0.000203							
5/22/2023			0.000346					
5/23/2023		<0.000203		<0.000203	<0.000203			
5/24/2023						<0.000203		
5/31/2023	<0.000203						<0.000203	<0.000203

# Time Series

Constituent: Lead (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.000203							
1/16/2019		<0.000203	<0.000203					
9/11/2019	<0.000203	<0.000203	<0.000203					
4/20/2020			<0.000203	<0.000203				
4/21/2020	<0.000203	<0.000203					<0.000203	<0.000203
5/28/2020						<0.000203		
7/6/2020					<0.000203			
8/11/2020					<0.000203	<0.000203		
8/12/2020			<0.000203					
8/17/2020				<0.000203			<0.000203	
8/19/2020	<0.000203	<0.000203						<0.000203
3/8/2021					<0.000203	<0.000203		
3/9/2021	<0.000203	<0.000203						
3/10/2021			<0.000203	<0.000203			<0.000203	<0.000203
8/17/2021					<0.000203	<0.000203		
8/18/2021	<0.000203	<0.000203		<0.000203			<0.000203	<0.000203
8/23/2021			<0.000203					
3/23/2022					<0.000203	<0.000203		
3/29/2022				<0.000203				
3/30/2022							<0.000203	<0.000203
4/4/2022			<0.000203					
4/6/2022	<0.000203	<0.000203						
10/4/2022					<0.000203	<0.000203		
10/5/2022			<0.000203					
10/18/2022				<0.000203			<0.000203	
10/19/2022	<0.000203	<0.000203						<0.000203
5/16/2023			7.3E-05 (J)					
5/17/2023					<0.000203			
5/22/2023				<0.000203		<0.000203		
5/24/2023		<0.000203						
5/30/2023	<0.000203						<0.000203	<0.000203

# Time Series

Constituent: Lead (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.000203							
4/12/2016	<0.000203							
5/31/2016	<0.000203							
8/17/2016	<0.000203							
10/11/2016	<0.000203							
1/24/2017	<0.000203							
5/9/2017	<0.000203							
6/28/2017	<0.000203							
2/27/2018	<0.000203							
6/5/2018	<0.000203							
11/6/2018	<0.000203							
3/27/2019	<0.000203							
9/11/2019	<0.000203							
4/20/2020				<0.000203	<0.000203		<0.000203	
4/21/2020	<0.000203							
5/28/2020		<0.000203				<0.000203		0.0026 (J)
7/6/2020			<0.000203					
8/11/2020		<0.000203	<0.000203	<0.000203		<0.000203		<0.000203
8/12/2020	<0.000203				<0.000203		<0.000203	
3/8/2021		0.000122 (J)	<0.000203					
3/9/2021						8.75E-05 (J)		<0.000203
3/10/2021				<0.000203	9.49E-05 (J)		<0.000203	
3/16/2021	<0.000203							
8/16/2021			<0.000203					
8/17/2021		0.00029				<0.000203		0.00017 (J)
8/23/2021	<0.000203			<0.000203	<0.000203		<0.000203	
3/23/2022		0.00013 (J)	<0.000203			0.0001 (J)		<0.000203
4/4/2022	<0.000203							
4/5/2022					<0.000203		0.00031	
4/6/2022				8E-05 (J)				
10/3/2022			<0.000203					
10/4/2022		<0.000203				8E-05 (J)		9.4E-05 (J)
10/5/2022					0.000194 (J)		<0.000203	
10/17/2022	<0.000203			0.00012 (J)				
5/15/2023			7E-05 (J)					
5/17/2023	<0.000203							
5/23/2023		0.000183 (J)			<0.000203	8.5E-05 (J)	0.000166 (J)	8.2E-05 (J)
5/30/2023				0.000141 (J)				

# Time Series

Constituent: Lead (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.000203
2/17/2016	<0.000203						<0.000203	
4/12/2016	<0.000203							
4/13/2016							<0.000203	<0.000203
5/31/2016	<0.000203						<0.000203	
6/1/2016								<0.000203
8/17/2016	<0.000203						<0.000203	<0.000203
10/11/2016	<0.000203							
10/12/2016							<0.000203	<0.000203
1/24/2017	<0.000203							
1/25/2017							<0.000203	<0.000203
5/10/2017	<0.000203						<0.000203	<0.000203
6/28/2017	<0.000203						<0.000203	<0.000203
2/27/2018	<0.000203						<0.000203	<0.000203
6/5/2018	<0.000203						<0.000203	<0.000203
11/7/2018	<0.000203						<0.000203	<0.000203
3/26/2019	<0.000203						<0.000203	<0.000203
9/10/2019	<0.000203						<0.000203	<0.000203
4/21/2020	<0.000203						<0.000203	<0.000203
8/19/2020	<0.000203						<0.000203	<0.000203
3/9/2021	<0.000203						<0.000203	<0.000203
8/17/2021		<0.000203	<0.000203	0.00011 (J)	<0.000203	0.00022		
8/24/2021	<0.000203						<0.000203	<0.000203
3/23/2022		<0.000203	<0.000203	0.00016 (J)	<0.000203	0.00016 (J)		
3/29/2022	<0.000203						<0.000203	<0.000203
10/4/2022		<0.000203	8E-05 (J)	8.3E-05 (J)	0.000134 (J)	0.000109 (J)		
10/18/2022	<0.000203						<0.000203	<0.000203
5/17/2023						8.2E-05 (J)		
5/22/2023				0.000234	<0.000203			
5/23/2023		<0.000203	0.000122 (J)					
5/30/2023	<0.000203						<0.000203	<0.000203

# Time Series

Constituent: Lead (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.000203	
4/13/2016	<0.000203	
6/1/2016	<0.000203	
8/17/2016	<0.000203	
10/12/2016	<0.000203	
1/25/2017	<0.000203	
5/10/2017	<0.000203	
6/28/2017	<0.000203	
2/27/2018	<0.000203	
6/5/2018	<0.000203	
11/7/2018	<0.000203	
3/26/2019	<0.000203	
9/10/2019	<0.000203	<0.000203
4/20/2020		<0.000203
4/21/2020	<0.000203	
8/17/2020		<0.000203
8/18/2020	<0.000203	
3/9/2021	7.84E-05 (J)	
3/10/2021		<0.000203
8/17/2021		0.00022
8/24/2021	<0.000203	
3/29/2022	<0.000203	
4/5/2022		0.0002 (J)
10/5/2022		0.000298
10/18/2022	<0.000203	
5/17/2023		0.000334
5/30/2023	<0.000203	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.115		0.502	0.51	0.632		
2/17/2016	<0.02		0.0777				0.806	0.626
4/12/2016					0.508	0.615	0.719	
4/13/2016	<0.02	0.135	0.073	0.544				0.594
5/31/2016		0.127	0.0721	0.47	0.454	0.613	0.735	
6/1/2016	<0.02							0.556
8/15/2016	<0.02							0.557
8/16/2016		0.124	0.075	0.282	0.371		0.699	
8/17/2016						0.444		
10/11/2016	0.0194 (J)						0.727	
10/12/2016		0.101	0.0703	0.217	0.282	0.387		0.589
1/24/2017	<0.02						0.689	0.522
1/25/2017		0.109	0.0683	0.108	0.0904	0.516		
5/9/2017	<0.02		0.0646	0.132	0.144	0.526		
5/10/2017		0.101					0.603	0.552
6/27/2017	<0.02						0.558	0.523
6/28/2017		0.0954	0.109	0.126	0.146	0.626		
2/27/2018	<0.02	0.111	0.11			0.562		
2/28/2018				0.0786	0.0738		0.571	0.544
6/4/2018	<0.02							
6/5/2018		0.104	0.102				0.492	0.49
6/6/2018				0.067	0.148	1.06		
11/5/2018			0.0641	0.0912	0.0914			
11/6/2018	<0.02						0.547	0.54
11/7/2018		0.11				0.604		
3/26/2019				0.0532	0.123		0.57	0.558
3/27/2019	<0.02	0.115	0.119			1.11		
9/10/2019	<0.02	0.112	0.124	0.0598		0.765	0.6	0.581
9/11/2019					0.246			
4/20/2020					0.201		0.604	0.62
4/21/2020	<0.02			0.166		0.672		
4/22/2020		0.123	0.126					
8/11/2020						0.712		0.599
8/12/2020							0.594	
8/17/2020	<0.02							
8/18/2020		0.124	0.109	0.0892	0.42			
3/9/2021						0.791		0.692
3/10/2021			0.0826	0.125			0.63	
3/15/2021		0.155			0.308			
3/16/2021	<0.02							
8/17/2021	<0.02							0.647
8/24/2021		0.198						
8/25/2021			0.132	0.117	0.5	0.985	0.622	
3/29/2022				0.13			0.534	
3/30/2022			0.0615					
4/4/2022	<0.02	0.329				0.607		
4/6/2022					0.584			0.638
10/5/2022	<0.02							
10/17/2022			0.0928	0.122	0.764			
10/18/2022		0.241				0.478	0.556	0.594
5/16/2023	<0.02							
5/17/2023			0.124					

# Time Series

Constituent: Lithium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							0.556	
5/24/2023		0.223				0.578		
5/30/2023				0.116				
5/31/2023					0.371			0.603

# Time Series

Constituent: Lithium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				0.513				
2/17/2016	0.612	0.67	<0.02		<0.02	<0.02	<0.02	
4/12/2016		0.655			<0.02	<0.02	<0.02	
4/13/2016	0.694		<0.02	0.532				
6/1/2016	0.675	0.666	<0.02	0.513	<0.02	<0.02	<0.02	
8/15/2016	0.571	0.558	<0.02					
8/16/2016				0.301	<0.02	<0.02		
8/17/2016							<0.02	<0.02
9/20/2016								<0.02
10/11/2016			<0.02		<0.02	<0.02	<0.02	
10/12/2016	0.622	0.56		0.22				<0.02
11/15/2016								<0.02
1/4/2017								<0.02
1/23/2017								<0.02
1/24/2017	0.752	0.374	<0.02		<0.02	<0.02	<0.02	
1/25/2017				0.107				
5/9/2017			<0.02	0.113	<0.02		<0.02	<0.02
5/10/2017	0.622	0.443				<0.02		
6/27/2017	0.597	0.451			<0.02			<0.02
6/28/2017			<0.02	0.0962	<0.02	<0.02	<0.02	
2/27/2018			<0.02		<0.02	<0.02		<0.02
2/28/2018	0.73	0.343		0.0594			<0.02	
6/4/2018			<0.02					
6/5/2018	0.531	0.353			<0.02	<0.02		<0.02
6/6/2018				0.0469 (J)			<0.02	
11/5/2018				0.0902				
11/6/2018	0.583	0.369	<0.02				<0.02	<0.02
11/7/2018					<0.02	<0.02		
3/26/2019	0.595	0.378		0.0531	<0.02	<0.02		<0.02
3/27/2019			<0.02				<0.02	
9/9/2019	0.571	0.408	<0.02					
9/10/2019				0.0862	<0.02	<0.02	<0.02	
9/11/2019								<0.02
4/21/2020	0.629	0.386	<0.02	0.0782	<0.02			<0.02
4/22/2020						<0.02	<0.02	
8/11/2020	0.552						<0.02	
8/12/2020		0.326			<0.02	<0.02		
8/17/2020			<0.02					
8/18/2020				0.0718				<0.02
3/9/2021	0.864	0.364						
3/10/2021				0.146	<0.02	<0.02	<0.02	
3/15/2021								<0.02
3/16/2021			<0.02					
8/17/2021	0.585	0.335	<0.02					
8/18/2021								<0.02
8/24/2021					<0.02	<0.02	<0.02	
8/25/2021				0.0872				
3/28/2022			<0.02		<0.02			
3/29/2022							<0.02	
3/30/2022				0.082				
4/4/2022	0.647					<0.02		<0.02
4/6/2022		0.312						



# Time Series

Constituent: Lithium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			<0.02					
10/17/2022		0.321		0.0902	<0.02	<0.02		
10/18/2022	0.656						<0.02	
10/19/2022								<0.02
5/16/2023					<0.02	<0.02		
5/17/2023	0.708		<0.02					
5/22/2023		0.286						
5/30/2023				0.0683			<0.02	<0.02

# Time Series

Constituent: Lithium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.02				
4/12/2016				<0.02				
6/1/2016				<0.02				
8/15/2016				<0.02				
8/16/2016			<0.02		<0.02	<0.02	<0.02	<0.02
8/17/2016	<0.02	<0.02						
9/19/2016						<0.02	<0.02	<0.02
9/20/2016	<0.02	<0.02	<0.02		<0.02			
10/11/2016			<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
10/12/2016	<0.02	<0.02						
11/14/2016						<0.02	<0.02	<0.02
11/15/2016	<0.02	<0.02	<0.02		<0.02			
1/3/2017						<0.02	<0.02	<0.02
1/4/2017	<0.02	<0.02	<0.02		<0.02			
1/23/2017	<0.02				<0.02			
1/24/2017		<0.02		<0.02		<0.02	<0.02	
1/25/2017								<0.02
1/26/2017			<0.02					
5/9/2017	<0.02	<0.02	<0.02	<0.02	<0.02			
5/10/2017						<0.02	<0.02	<0.02
6/27/2017	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02
6/28/2017				<0.02				
2/27/2018	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
6/4/2018				<0.02				
6/5/2018	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02
11/5/2018							<0.02	
11/6/2018	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02
3/26/2019	<0.02	<0.02	<0.02		<0.02			
3/27/2019				<0.02		<0.02	<0.02	<0.02
9/9/2019				<0.02				
9/11/2019	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02
4/20/2020				<0.02				
4/21/2020	<0.02	<0.02	<0.02		<0.02			
4/22/2020						<0.02	<0.02	<0.02
8/11/2020						<0.02		
8/12/2020							<0.02	<0.02
8/17/2020				<0.02				
8/18/2020	<0.02	<0.02	<0.02		<0.02			
3/15/2021	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02
3/16/2021				<0.02				
8/17/2021				<0.02				
8/18/2021	<0.02	<0.02	<0.02		<0.02			
8/23/2021						<0.02	<0.02	<0.02
3/28/2022	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02
4/5/2022				<0.02				
10/5/2022				<0.02		<0.02	<0.02	<0.02
10/19/2022	<0.02	<0.02	<0.02		<0.02			
5/17/2023				<0.02				
5/22/2023							<0.02	<0.02
5/23/2023						<0.02		
5/30/2023	<0.02	<0.02	<0.02		<0.02			

# Time Series

Constituent: Lithium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.02			
1/15/2019				0.0141 (J)		0.399	0.407	0.0411
1/16/2019		<0.02						
1/17/2019	<0.02							
1/30/2019			<0.02					
9/10/2019	<0.02						0.545	
9/11/2019		<0.02	<0.02		<0.02	0.45		0.0396
4/20/2020							0.628	
4/21/2020		<0.02						
4/22/2020	<0.02		<0.02	0.0134 (J)	<0.02	0.41		
4/29/2020								0.041
8/11/2020			<0.02			0.47		
8/12/2020	<0.02						0.669	
8/18/2020		<0.02						0.039
8/19/2020				0.0108 (J)	<0.02			
3/9/2021			<0.02			0.474		
3/10/2021					<0.02		0.772	
3/15/2021	<0.02							0.0459
3/16/2021		<0.02		0.0107 (J)				
8/23/2021	<0.02							
8/24/2021		<0.02	<0.02	0.0112 (J)	<0.02	0.47		
8/25/2021							0.734	0.0545
3/28/2022	<0.02							
3/29/2022				0.00867 (J)				
3/30/2022			<0.02		<0.02		0.707	
4/6/2022		<0.02				0.336		0.0809
10/5/2022							0.729	
10/17/2022		<0.02	<0.02	0.00728 (J)				
10/18/2022					<0.02	0.377		0.0617
10/19/2022	<0.02							
5/22/2023			<0.02					
5/23/2023		<0.02		0.00795 (J)	<0.02			
5/24/2023						0.378		
5/31/2023	<0.02						0.738	0.0792

# Time Series

Constituent: Lithium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	0.0146 (J)							
1/16/2019		0.178	<0.02					
9/11/2019	0.0169 (J)	0.254	<0.02					
4/20/2020			<0.02	0.148				
4/21/2020	0.0174 (J)	0.376					0.0924	0.0733
5/28/2020						0.0527		
7/6/2020					0.089			
8/11/2020					0.097	0.0457		
8/12/2020			<0.02					
8/17/2020				0.212			0.108	
8/19/2020	0.0168 (J)	0.336						0.0511
3/8/2021					0.0991	0.0456		
3/9/2021	0.0172 (J)	0.448						
3/10/2021			<0.02	0.194			0.102	0.0681
8/17/2021					0.112	0.0453		
8/18/2021	0.0304	0.344		0.367			0.0821	0.0538
8/23/2021			<0.02					
3/23/2022					0.122	0.0531		
3/29/2022				0.411				
3/30/2022							0.0704	0.0726
4/4/2022			<0.02					
4/6/2022	0.0231	0.261						
10/4/2022					0.125	0.0422		
10/5/2022			<0.02					
10/18/2022				0.296			0.061	
10/19/2022	0.0212	0.225						0.0722
5/16/2023			<0.02					
5/17/2023					0.108			
5/22/2023				0.47		0.0366		
5/24/2023		0.184						
5/30/2023	0.029						0.0482	0.0691

# Time Series

Constituent: Lithium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.0883							
4/12/2016	0.0862							
5/31/2016	0.085							
8/17/2016	0.093							
10/11/2016	0.0928							
1/24/2017	0.094							
5/9/2017	0.0865							
6/28/2017	0.0879							
2/27/2018	0.113							
6/5/2018	0.101							
11/6/2018	0.116							
3/27/2019	0.0988							
9/11/2019	0.117							
4/20/2020				0.0107 (J)	0.101		<0.02	
4/21/2020	0.13							
5/28/2020		0.0979				<0.02		<0.02
7/6/2020			<0.02					
8/11/2020		0.0825	<0.02	0.0125 (J)		<0.02		<0.02
8/12/2020	0.132				0.105		<0.02	
3/8/2021		0.119	<0.02					
3/9/2021						<0.02		<0.02
3/10/2021				<0.02	0.0906		<0.02	
3/16/2021	0.149							
8/16/2021			<0.02					
8/17/2021		0.106				<0.02		<0.02
8/23/2021	0.116			<0.02	0.0805		<0.02	
3/23/2022		0.11	<0.02			<0.02		<0.02
4/4/2022	0.102							
4/5/2022					0.0584		<0.02	
4/6/2022				<0.02				
10/3/2022			<0.02					
10/4/2022		0.0749				<0.02		<0.02
10/5/2022					0.065		<0.02	
10/17/2022	0.0901			0.00881 (J)				
5/15/2023			<0.02					
5/17/2023	0.0817							
5/23/2023		0.0737			0.0523	<0.02	<0.02	<0.02
5/30/2023				<0.02				

# Time Series

Constituent: Lithium (mg/L)    Analysis Run 7/19/2023 1:50 PM    View: Descriptive  
 Plant Greene County    Client: Southern Company    Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.02
2/17/2016	<0.02						<0.02	
4/12/2016	<0.02							
4/13/2016							<0.02	<0.02
5/31/2016	<0.02						<0.02	
6/1/2016								0.0101 (J)
8/17/2016	<0.02						<0.02	0.0143 (J)
10/11/2016	<0.02							
10/12/2016							<0.02	0.0166 (J)
1/24/2017	0.0591							
1/25/2017							<0.02	0.0272 (J)
5/10/2017	0.0519						<0.02	0.0436 (J)
6/28/2017	0.0403 (J)						<0.02	0.0401 (J)
2/27/2018	0.0201 (J)						<0.02	0.0309 (J)
6/5/2018	0.0218 (J)						<0.02	0.0286 (J)
11/7/2018	0.0141 (J)						<0.02	0.0371
3/26/2019	0.0192 (J)						<0.02	0.0537
9/10/2019	0.0267						<0.02	0.0928
4/21/2020	0.0518						<0.02	0.0582
8/19/2020	0.0197 (J)						<0.02	0.0511
3/9/2021	0.013 (J)						<0.02	0.0249
8/17/2021		<0.02	<0.02	<0.02	<0.02	0.142		
8/24/2021	0.00951 (J)						<0.02	0.0155 (J)
3/23/2022		<0.02	<0.02	<0.02	<0.02	0.159		
3/29/2022	<0.02						<0.02	0.00828 (J)
10/4/2022		<0.02	<0.02	<0.02	<0.02	0.16		
10/18/2022	<0.02						<0.02	<0.02
5/17/2023						0.156		
5/22/2023				<0.02	<0.02			
5/23/2023		<0.02	<0.02					
5/30/2023	<0.02						<0.02	<0.02

# Time Series

Constituent: Lithium (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	0.0359 (J)	
4/13/2016	0.0276 (J)	
6/1/2016	0.0296 (J)	
8/17/2016	0.0398 (J)	
10/12/2016	0.0433 (J)	
1/25/2017	0.0366 (J)	
5/10/2017	0.039 (J)	
6/28/2017	0.0345 (J)	
2/27/2018	0.0349 (J)	
6/5/2018	0.0338 (J)	
11/7/2018	0.0616	
3/26/2019	0.0931	
9/10/2019	0.128	<0.02
4/20/2020		<0.02
4/21/2020	0.0693	
8/17/2020		<0.02
8/18/2020	0.0591	
3/9/2021	0.0417	
3/10/2021		<0.02
8/17/2021		<0.02
8/24/2021	0.0383	
3/29/2022	0.0126 (J)	
4/5/2022		<0.02
10/5/2022		<0.02
10/18/2022	0.0189 (J)	
5/17/2023		<0.02
5/30/2023	0.0188 (J)	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.0005		<0.0005	<0.0005	<0.0005		
2/17/2016	<0.0005		<0.0005				<0.0005	<0.0005
4/12/2016					<0.0005	<0.0005	<0.0005	
4/13/2016	<0.0005	<0.0005	<0.0005	<0.0005				<0.0005
5/31/2016		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
6/1/2016	<0.0005							<0.0005
8/15/2016	<0.0005							<0.0005
8/16/2016		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	
8/17/2016						<0.0005		
10/11/2016	<0.0005						<0.0005	
10/12/2016		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
1/24/2017	<0.0005						<0.0005	<0.0005
1/25/2017		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
5/9/2017	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005		
5/10/2017		<0.0005					<0.0005	<0.0005
6/27/2017	<0.0005						<0.0005	<0.0005
6/28/2017		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
2/27/2018	<0.0005	<0.0005	<0.0005			<0.0005		
2/28/2018				<0.0005	<0.0005		<0.0005	<0.0005
6/4/2018	<0.0005							
6/5/2018		<0.0005	<0.0005				<0.0005	<0.0005
6/6/2018				<0.0005	<0.0005	<0.0005		
11/5/2018			<0.0005	<0.0005	<0.0005			
11/6/2018	<0.0005						<0.0005	<0.0005
11/7/2018		<0.0005				<0.0005		
3/26/2019				<0.0005	<0.0005		<0.0005	<0.0005
3/27/2019	<0.0005	<0.0005	<0.0005			<0.0005		
9/10/2019	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
9/11/2019					<0.0005			
4/20/2020					<0.0005		<0.0005	<0.0005
4/21/2020	<0.0005			<0.0005		<0.0005		
4/22/2020		<0.0005	<0.0005					
8/11/2020						<0.0005		<0.0005
8/12/2020							<0.0005	
8/17/2020	<0.0005							
8/18/2020		<0.0005	<0.0005	<0.0005	<0.0005			
3/9/2021						<0.0005		<0.0005
3/10/2021			<0.0005	<0.0005			<0.0005	
3/15/2021		<0.0005			<0.0005			
3/16/2021	<0.0005							
8/17/2021	<0.0005							<0.0005
8/24/2021		<0.0005						
8/25/2021			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
3/29/2022				<0.0005			<0.0005	
3/30/2022			<0.0005					
4/4/2022	<0.0005	<0.0005				<0.0005		
4/6/2022					<0.0005			<0.0005
10/5/2022	<0.0005							
10/17/2022			<0.0005	<0.0005	<0.0005			
10/18/2022		<0.0005				<0.0005	<0.0005	<0.0005
5/16/2023	<0.0005							
5/17/2023			<0.0005					



# Time Series

Constituent: Mercury (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							<0.0005	
5/24/2023		<0.0005				<0.0005		
5/30/2023				<0.0005				
5/31/2023					<0.0005			<0.0005

# Time Series

Constituent: Mercury (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.0005				
2/17/2016	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	
4/12/2016		<0.0005			<0.0005	<0.0005	<0.0005	
4/13/2016	<0.0005		<0.0005	<0.0005				
6/1/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8/15/2016	<0.0005	<0.0005	<0.0005					
8/16/2016				<0.0005	<0.0005	<0.0005		
8/17/2016							<0.0005	<0.0005
9/20/2016								<0.0005
10/11/2016			<0.0005		<0.0005	<0.0005	<0.0005	
10/12/2016	<0.0005	<0.0005		<0.0005				<0.0005
11/15/2016								<0.0005
1/4/2017								<0.0005
1/23/2017								<0.0005
1/24/2017	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	
1/25/2017				<0.0005				
5/9/2017			<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
5/10/2017	<0.0005	<0.0005				<0.0005		
6/27/2017	<0.0005	<0.0005			<0.0005			<0.0005
6/28/2017			<0.0005	<0.0005		<0.0005	<0.0005	
2/27/2018			<0.0005		<0.0005	<0.0005		<0.0005
2/28/2018	<0.0005	<0.0005		<0.0005			<0.0005	
6/4/2018			<0.0005					
6/5/2018	<0.0005	<0.0005			<0.0005	<0.0005		<0.0005
6/6/2018				<0.0005			<0.0005	
11/5/2018				<0.0005				
11/6/2018	<0.0005	<0.0005	<0.0005				<0.0005	<0.0005
11/7/2018					<0.0005	<0.0005		
3/26/2019	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005		<0.0005
3/27/2019			<0.0005				<0.0005	
9/9/2019	<0.0005	<0.0005	<0.0005					
9/10/2019				<0.0005	<0.0005	<0.0005	<0.0005	
9/11/2019								<0.0005
4/21/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005
4/22/2020						<0.0005	<0.0005	
8/11/2020	<0.0005						<0.0005	
8/12/2020		<0.0005			<0.0005	<0.0005		
8/17/2020			<0.0005					
8/18/2020				<0.0005				<0.0005
3/9/2021	<0.0005	<0.0005						
3/10/2021				<0.0005	<0.0005	<0.0005	<0.0005	
3/15/2021								<0.0005
3/16/2021			<0.0005					
8/17/2021	<0.0005	<0.0005	<0.0005					
8/18/2021								<0.0005
8/24/2021					<0.0005	<0.0005	<0.0005	
8/25/2021				<0.0005				
3/28/2022			<0.0005		<0.0005			
3/29/2022							<0.0005	
3/30/2022				<0.0005				
4/4/2022	<0.0005					<0.0005		<0.0005
4/6/2022		<0.0005						

# Time Series

Constituent: Mercury (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			<0.0005					
10/17/2022		<0.0005		<0.0005	<0.0005	<0.0005		
10/18/2022	<0.0005						<0.0005	
10/19/2022								<0.0005
5/16/2023					<0.0005	<0.0005		
5/17/2023	<0.0005		<0.0005					
5/22/2023		<0.0005						
5/30/2023				<0.0005			<0.0005	<0.0005

# Time Series

Constituent: Mercury (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.0005				
4/12/2016				<0.0005				
6/1/2016				<0.0005				
8/15/2016				<0.0005				
8/16/2016			<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
8/17/2016	<0.0005	<0.0005						
9/19/2016						<0.0005	<0.0005	<0.0005
9/20/2016	<0.0005	<0.0005	<0.0005		<0.0005			
10/11/2016			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/12/2016	<0.0005	<0.0005						
11/14/2016						<0.0005	<0.0005	<0.0005
11/15/2016	<0.0005	<0.0005	<0.0005		<0.0005			
1/3/2017						<0.0005	<0.0005	<0.0005
1/4/2017	<0.0005	<0.0005	<0.0005		<0.0005			
1/23/2017	<0.0005				<0.0005			
1/24/2017		<0.0005		<0.0005		<0.0005	<0.0005	
1/25/2017								<0.0005
1/26/2017			<0.0005					
5/9/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
5/10/2017						<0.0005	<0.0005	<0.0005
6/27/2017	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
6/28/2017				<0.0005				
2/27/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6/4/2018				<0.0005				
6/5/2018	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
11/5/2018							<0.0005	
11/6/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
3/26/2019	<0.0005	<0.0005	<0.0005		<0.0005			
3/27/2019				<0.0005		<0.0005	<0.0005	<0.0005
9/9/2019				<0.0005				
9/11/2019	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
4/20/2020				<0.0005				
4/21/2020	<0.0005	<0.0005	<0.0005		<0.0005			
4/22/2020						<0.0005	<0.0005	<0.0005
8/11/2020						<0.0005		
8/12/2020							<0.0005	<0.0005
8/17/2020				<0.0005				
8/18/2020	<0.0005	<0.0005	<0.0005		<0.0005			
3/15/2021	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
3/16/2021				<0.0005				
8/17/2021				<0.0005				
8/18/2021	<0.0005	<0.0005	<0.0005		<0.0005			
8/23/2021						<0.0005	<0.0005	<0.0005
3/28/2022	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
4/5/2022				<0.0005				
10/5/2022				<0.0005		<0.0005	<0.0005	<0.0005
10/19/2022	<0.0005	<0.0005	<0.0005		<0.0005			
5/17/2023				<0.0005				
5/22/2023							<0.0005	<0.0005
5/23/2023						<0.0005		
5/30/2023	<0.0005	<0.0005	<0.0005		<0.0005			

# Time Series

Constituent: Mercury (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.0005			
1/15/2019				<0.0005		<0.0005	<0.0005	<0.0005
1/16/2019		<0.0005						
1/17/2019	<0.0005							
1/30/2019			<0.0005					
9/10/2019	<0.0005						<0.0005	
9/11/2019		<0.0005	<0.0005		<0.0005	<0.0005		<0.0005
4/20/2020							<0.0005	
4/21/2020		<0.0005						
4/22/2020	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005		
4/29/2020								<0.0005
8/11/2020			<0.0005			<0.0005		
8/12/2020	<0.0005						<0.0005	
8/18/2020		<0.0005						<0.0005
8/19/2020				<0.0005	<0.0005			
3/9/2021			<0.0005			<0.0005		
3/10/2021					<0.0005		<0.0005	
3/15/2021	<0.0005							<0.0005
3/16/2021		<0.0005		<0.0005				
8/23/2021	<0.0005							
8/24/2021		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
8/25/2021							<0.0005	<0.0005
3/28/2022	<0.0005							
3/29/2022				<0.0005				
3/30/2022			<0.0005		<0.0005		<0.0005	
4/6/2022		<0.0005				<0.0005		<0.0005
10/5/2022							<0.0005	
10/17/2022		<0.0005	<0.0005	<0.0005				
10/18/2022					<0.0005	<0.0005		<0.0005
10/19/2022	<0.0005							
5/22/2023			<0.0005					
5/23/2023		<0.0005		<0.0005	<0.0005			
5/24/2023						<0.0005		
5/31/2023	<0.0005						<0.0005	<0.0005

# Time Series

Constituent: Mercury (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.0005							
1/16/2019		<0.0005	<0.0005					
9/11/2019	<0.0005	<0.0005	<0.0005					
4/20/2020			<0.0005	<0.0005				
4/21/2020	<0.0005	<0.0005					<0.0005	<0.0005
5/28/2020						<0.0005		
7/6/2020					<0.0005			
8/11/2020					<0.0005	<0.0005		
8/12/2020			<0.0005					
8/17/2020				<0.0005			<0.0005	
8/19/2020	<0.0005	<0.0005						<0.0005
3/8/2021					<0.0005	<0.0005		
3/9/2021	<0.0005	<0.0005						
3/10/2021			<0.0005	<0.0005			<0.0005	<0.0005
8/17/2021					<0.0005	<0.0005		
8/18/2021	<0.0005	<0.0005		<0.0005			<0.0005	<0.0005
8/23/2021			<0.0005					
3/23/2022					<0.0005	<0.0005		
3/29/2022				<0.0005				
3/30/2022							<0.0005	<0.0005
4/4/2022			<0.0005					
4/6/2022	<0.0005	<0.0005						
10/4/2022					<0.0005	<0.0005		
10/5/2022			<0.0005					
10/18/2022				<0.0005			<0.0005	
10/19/2022	<0.0005	<0.0005						<0.0005
5/16/2023			<0.0005					
5/17/2023					<0.0005			
5/22/2023				<0.0005		<0.0005		
5/24/2023		<0.0005						
5/30/2023	<0.0005						<0.0005	<0.0005

# Time Series

Constituent: Mercury (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.0005							
4/12/2016	<0.0005							
5/31/2016	<0.0005							
8/17/2016	<0.0005							
10/11/2016	<0.0005							
1/24/2017	<0.0005							
5/9/2017	<0.0005							
6/28/2017	<0.0005							
2/27/2018	<0.0005							
6/5/2018	<0.0005							
11/6/2018	<0.0005							
3/27/2019	<0.0005							
9/11/2019	<0.0005							
4/20/2020				<0.0005	<0.0005		<0.0005	
4/21/2020	<0.0005							
5/28/2020		<0.0005				<0.0005		<0.0005
7/6/2020			<0.0005					
8/11/2020		<0.0005	<0.0005	<0.0005		<0.0005		<0.0005
8/12/2020	<0.0005				<0.0005		<0.0005	
3/8/2021		<0.0005	<0.0005					
3/9/2021						<0.0005		<0.0005
3/10/2021				<0.0005	<0.0005		<0.0005	
3/16/2021	<0.0005							
8/16/2021			<0.0005					
8/17/2021		<0.0005				<0.0005		<0.0005
8/23/2021	<0.0005			<0.0005	<0.0005		<0.0005	
3/23/2022		<0.0005	<0.0005			<0.0005		<0.0005
4/4/2022	<0.0005							
4/5/2022					<0.0005		<0.0005	
4/6/2022				<0.0005				
10/3/2022			<0.0005					
10/4/2022		<0.0005				<0.0005		<0.0005
10/5/2022					<0.0005		<0.0005	
10/17/2022	<0.0005			<0.0005				
5/15/2023			<0.0005					
5/17/2023	<0.0005							
5/23/2023		<0.0005			<0.0005	<0.0005	<0.0005	<0.0005
5/30/2023				<0.0005				

# Time Series

Constituent: Mercury (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.0005
2/17/2016	<0.0005						<0.0005	
4/12/2016	<0.0005							
4/13/2016							<0.0005	<0.0005
5/31/2016	<0.0005						<0.0005	
6/1/2016								<0.0005
8/17/2016	<0.0005						<0.0005	<0.0005
10/11/2016	<0.0005							
10/12/2016							<0.0005	<0.0005
1/24/2017	<0.0005							
1/25/2017							<0.0005	<0.0005
5/10/2017	<0.0005						<0.0005	<0.0005
6/28/2017	<0.0005						<0.0005	<0.0005
2/27/2018	<0.0005						<0.0005	<0.0005
6/5/2018	<0.0005						<0.0005	<0.0005
11/7/2018	<0.0005						<0.0005	<0.0005
3/26/2019	<0.0005						<0.0005	<0.0005
9/10/2019	<0.0005						<0.0005	<0.0005
4/21/2020	<0.0005						<0.0005	<0.0005
8/19/2020	<0.0005						<0.0005	<0.0005
3/9/2021	<0.0005						<0.0005	<0.0005
8/17/2021		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
8/24/2021	<0.0005						<0.0005	<0.0005
3/23/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
3/29/2022	<0.0005						<0.0005	<0.0005
10/4/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
10/18/2022	<0.0005						<0.0005	<0.0005
5/17/2023						<0.0005		
5/22/2023				<0.0005	<0.0005			
5/23/2023		<0.0005	<0.0005					
5/30/2023	<0.0005						<0.0005	<0.0005



# Time Series

Constituent: Mercury (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.0005	
4/13/2016	<0.0005	
6/1/2016	<0.0005	
8/17/2016	<0.0005	
10/12/2016	<0.0005	
1/25/2017	<0.0005	
5/10/2017	<0.0005	
6/28/2017	<0.0005	
2/27/2018	<0.0005	
6/5/2018	<0.0005	
11/7/2018	<0.0005	
3/26/2019	<0.0005	
9/10/2019	<0.0005	<0.0005
4/20/2020		<0.0005
4/21/2020	<0.0005	
8/17/2020		<0.0005
8/18/2020	<0.0005	
3/9/2021	<0.0005	
3/10/2021		<0.0005
8/17/2021		<0.0005
8/24/2021	<0.0005	
3/29/2022	<0.0005	
4/5/2022		<0.0005
10/5/2022		<0.0005
10/18/2022	<0.0005	
5/17/2023		<0.0005
5/30/2023	<0.0005	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.0101		0.107	0.0769	0.00839 (J)		
2/17/2016	<0.01015		0.00651 (J)				<0.01015	<0.01015
4/12/2016					0.0442	0.00918 (J)	<0.01015	
4/13/2016	<0.01015	0.0127	0.00646 (J)	0.101				<0.01015
5/31/2016		0.0106	0.00546 (J)	0.0915	0.0481	0.00877 (J)	<0.01015	
6/1/2016	<0.01015							<0.01015
8/15/2016	<0.01015							<0.01015
8/16/2016		0.00991 (J)	0.00582 (J)	0.127	0.0956		<0.01015	
8/17/2016						0.0236		
10/11/2016	<0.01015						<0.01015	
10/12/2016		0.00919 (J)	0.00589 (J)	0.11	0.114	0.0289		<0.01015
1/24/2017	<0.01015						<0.01015	<0.01015
1/25/2017		0.0101	0.00556 (J)	0.0741	0.078	0.00501 (J)		
5/9/2017	<0.01015		0.0058 (J)	0.0883	0.0484	0.0108		
5/10/2017		0.00984 (J)					<0.01015	<0.01015
6/27/2017	<0.01015						<0.01015	<0.01015
6/28/2017		0.0102	0.00616 (J)	0.109	0.0598	0.00752 (J)		
2/27/2018	<0.01015	0.011	0.00962 (J)			0.0121		
2/28/2018				0.0903	0.0346		<0.01015	<0.01015
6/4/2018	<0.01015							
6/5/2018		0.00752 (J)	0.00984 (J)				<0.01015	<0.01015
6/6/2018				0.0757	0.0253	0.0101		
11/5/2018			0.00944 (J)	0.0906	0.044			
11/6/2018	<0.01015						<0.01015	<0.01015
11/7/2018		0.00748 (J)				0.0155		
3/26/2019				0.11	0.0262		<0.01015	<0.01015
3/27/2019	<0.01015	0.00778 (J)	0.0151			0.0167		
9/10/2019	<0.01015	0.00757 (J)	0.0205	0.134		0.0125	<0.01015	<0.01015
9/11/2019					0.0226			
4/20/2020					0.0924		<0.01015	<0.01015
4/21/2020	<0.01015			0.0947		0.0141		
4/22/2020		0.00747 (J)	0.0147					
8/11/2020						0.0117		<0.01015
8/12/2020							<0.01015	
8/17/2020	<0.01015							
8/18/2020		0.00808 (J)	0.0146	0.0938	0.145			
3/9/2021						0.0205		0.000113 (J)
3/10/2021			0.00701	0.0611			<0.01015	
3/15/2021		0.0103			0.0146			
3/16/2021	0.000117 (J)							
8/17/2021	<0.01015							0.00014 (J)
8/24/2021		0.0132						
8/25/2021			0.0106	0.0547	0.0319	0.0127	<0.01015	
3/29/2022				0.0514			<0.01015	
3/30/2022			0.00425					
4/4/2022	<0.01015	0.0117				0.0166		
4/6/2022					0.0201			0.00015 (J)
10/5/2022	<0.01015							
10/17/2022			0.0119	0.0568	0.0197			
10/18/2022		0.0075				0.0181	<0.01015	0.000194 (J)
5/16/2023	<0.01015							
5/17/2023			0.017					

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							<0.01015	
5/24/2023		0.00638 (J)				0.0152		
5/30/2023			0.058					
5/31/2023				0.0119				<0.01015

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				0.0433				
2/17/2016	0.066	<0.01015	<0.01015		<0.01015	<0.01015	<0.01015	
4/12/2016		<0.01015			<0.01015	<0.01015	<0.01015	
4/13/2016	0.0835		<0.01015	0.0567				
6/1/2016	0.0835	<0.01015	<0.01015	0.0565	<0.01015	<0.01015	<0.01015	
8/15/2016	0.0838	<0.01015	<0.01015					
8/16/2016				0.0791	<0.01015	<0.01015		
8/17/2016							<0.01015	<0.01015
9/20/2016								<0.01015
10/11/2016			<0.01015		<0.01015	<0.01015	<0.01015	
10/12/2016	0.111	<0.01015		0.0767				<0.01015
11/15/2016								<0.01015
1/4/2017								<0.01015
1/23/2017								<0.01015
1/24/2017	0.111	<0.01015	<0.01015		<0.01015	<0.01015	<0.01015	
1/25/2017				0.0398				
5/9/2017			<0.01015	0.0467	<0.01015		<0.01015	<0.01015
5/10/2017	0.0566	<0.01015				<0.01015		
6/27/2017	0.0702	<0.01015			<0.01015			<0.01015
6/28/2017			<0.01015	0.0833		<0.01015	<0.01015	
2/27/2018			<0.01015		<0.01015	<0.01015		<0.01015
2/28/2018	0.0957	<0.01015		0.0643			<0.01015	
6/4/2018			<0.01015					
6/5/2018	0.0363	<0.01015			<0.01015	<0.01015		<0.01015
6/6/2018				0.0579			<0.01015	
11/5/2018				0.0548				
11/6/2018	0.0418	<0.01015	<0.01015				<0.01015	<0.01015
11/7/2018					<0.01015	<0.01015		
3/26/2019	0.062	<0.01015		0.071	<0.01015	<0.01015		<0.01015
3/27/2019			<0.01015				<0.01015	
9/9/2019	0.0681	<0.01015	<0.01015					
9/10/2019				0.0609	<0.01015	<0.01015	<0.01015	
9/11/2019								<0.01015
4/21/2020	0.0694	<0.01015	<0.01015	0.0562	<0.01015			<0.01015
4/22/2020						<0.01015	<0.01015	
8/11/2020	0.0506						<0.01015	
8/12/2020		<0.01015			<0.01015	<0.01015		
8/17/2020			<0.01015					
8/18/2020				0.0505				<0.01015
3/9/2021	0.067	0.000362						
3/10/2021				0.0123	0.000179 (J)	<0.01015	8.43E-05 (J)	
3/15/2021								<0.01015
3/16/2021			8.04E-05 (J)					
8/17/2021	0.0468	0.0004	0.00017 (J)					
8/18/2021								<0.01015
8/24/2021					0.00017 (J)	<0.01015	<0.01015	
8/25/2021				0.00789				
3/28/2022			<0.01015		0.00012 (J)			
3/29/2022							<0.01015	
3/30/2022				0.00682				
4/4/2022	0.054					<0.01015		<0.01015
4/6/2022		0.00032						

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/19/2023 1:50 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			<0.01015					
10/17/2022		0.000305		0.00666	<0.01015	<0.01015		
10/18/2022	0.0513						<0.01015	
10/19/2022								<0.01015
5/16/2023					<0.01015	<0.01015		
5/17/2023	0.0497		<0.01015					
5/22/2023		<0.01015						
5/30/2023				<0.01015			<0.01015	<0.01015

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.01015				
4/12/2016				<0.01015				
6/1/2016				<0.01015				
8/15/2016				<0.01015				
8/16/2016			<0.01015		<0.01015	0.00201 (J)	<0.01015	<0.01015
8/17/2016	<0.01015	<0.01015						
9/19/2016						<0.01015	<0.01015	<0.01015
9/20/2016	<0.01015	<0.01015	<0.01015		<0.01015			
10/11/2016			<0.01015	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015
10/12/2016	<0.01015	<0.01015						
11/14/2016						<0.01015	<0.01015	<0.01015
11/15/2016	<0.01015	<0.01015	0.00308 (J)		<0.01015			
1/3/2017						<0.01015	<0.01015	<0.01015
1/4/2017	<0.01015	<0.01015	<0.01015		<0.01015			
1/23/2017	<0.01015				<0.01015			
1/24/2017		<0.01015		<0.01015		<0.01015	<0.01015	
1/25/2017								<0.01015
1/26/2017			<0.01015					
5/9/2017	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015			
5/10/2017						<0.01015	<0.01015	<0.01015
6/27/2017	<0.01015	<0.01015	<0.01015		<0.01015	<0.01015	<0.01015	<0.01015
6/28/2017				<0.01015				
2/27/2018	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015
6/4/2018				<0.01015				
6/5/2018	<0.01015	<0.01015	<0.01015		<0.01015	<0.01015	<0.01015	<0.01015
11/5/2018							<0.01015	
11/6/2018	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015		<0.01015
3/26/2019	<0.01015	<0.01015	<0.01015		<0.01015			
3/27/2019				<0.01015		<0.01015	<0.01015	<0.01015
9/9/2019				<0.01015				
9/11/2019	<0.01015	<0.01015	<0.01015		<0.01015	<0.01015	<0.01015	<0.01015
4/20/2020				<0.01015				
4/21/2020	<0.01015	<0.01015	<0.01015		<0.01015			
4/22/2020						<0.01015	<0.01015	<0.01015
8/11/2020						<0.01015		
8/12/2020							<0.01015	<0.01015
8/17/2020				<0.01015				
8/18/2020	<0.01015	<0.01015	<0.01015		<0.01015			
3/15/2021	<0.01015	<0.01015	<0.01015		<0.01015	7.41E-05 (J)	<0.01015	<0.01015
3/16/2021				<0.01015				
8/17/2021				<0.01015				
8/18/2021	<0.01015	<0.01015	<0.01015		<0.01015			
8/23/2021						<0.01015	<0.01015	<0.01015
3/28/2022	<0.01015	<0.01015	<0.01015		<0.01015	<0.01015	<0.01015	<0.01015
4/5/2022				<0.01015				
10/5/2022				<0.01015		<0.01015	<0.01015	<0.01015
10/19/2022	<0.01015	<0.01015	<0.01015		<0.01015			
5/17/2023				<0.01015				
5/22/2023							<0.01015	<0.01015
5/23/2023						<0.01015		
5/30/2023	<0.01015	<0.01015	<0.01015		<0.01015			

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.00574 (J)			
1/15/2019				<0.01015		0.00419 (J)	<0.01015	<0.01015
1/16/2019		<0.01015						
1/17/2019	<0.01015							
1/30/2019			<0.01015					
9/10/2019	<0.01015						<0.01015	
9/11/2019		<0.01015	<0.01015		0.00203 (J)	0.00338 (J)		<0.01015
4/20/2020							<0.01015	
4/21/2020		<0.01015						
4/22/2020	<0.01015		<0.01015	<0.01015	<0.01015	0.00246 (J)		
4/29/2020								<0.01015
8/11/2020			<0.01015			0.00401 (J)		
8/12/2020	<0.01015						<0.01015	
8/18/2020		<0.01015						<0.01015
8/19/2020				<0.01015	<0.01015			
3/9/2021			0.000166 (J)			0.0047		
3/10/2021					0.000699		<0.01015	
3/15/2021	<0.01015							0.000131 (J)
3/16/2021		<0.01015		0.000373				
8/23/2021	<0.01015							
8/24/2021		<0.01015	9E-05 (J)	0.00037	0.00048	0.00376		
8/25/2021							<0.01015	0.0001 (J)
3/28/2022	<0.01015							
3/29/2022				0.00079				
3/30/2022			0.00017 (J)		0.00076		<0.01015	
4/6/2022		<0.01015				0.00174		0.00013 (J)
10/5/2022							<0.01015	
10/17/2022		<0.01015	0.000144 (J)	0.000164 (J)				
10/18/2022					0.00031	0.00284		0.000147 (J)
10/19/2022	<0.01015							
5/22/2023			<0.01015					
5/23/2023		<0.01015		<0.01015	<0.01015			
5/24/2023						<0.01015		
5/31/2023	<0.01015						<0.01015	<0.01015

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.01015							
1/16/2019		<0.01015	<0.01015					
9/11/2019	<0.01015	<0.01015	<0.01015					
4/20/2020			<0.01015	0.0703				
4/21/2020	<0.01015	<0.01015					<0.01015	<0.01015
5/28/2020						<0.01015		
7/6/2020					0.0661			
8/11/2020					0.0443	<0.01015		
8/12/2020			<0.01015					
8/17/2020				0.0737			<0.01015	
8/19/2020	<0.01015	<0.01015						<0.01015
3/8/2021					0.0761	<0.01015		
3/9/2021	0.000315	0.0026						
3/10/2021			0.000171 (J)	0.0852			0.000144 (J)	0.000173 (J)
8/17/2021					0.0555	<0.01015		
8/18/2021	0.00015 (J)	0.00283		0.0752			7E-05 (J)	0.00022
8/23/2021			0.00018 (J)					
3/23/2022					0.0489	<0.01015		
3/29/2022				0.0652				
3/30/2022							<0.01015	0.00019 (J)
4/4/2022			<0.01015					
4/6/2022	0.00023	0.00264						
10/4/2022					0.0442	<0.01015		
10/5/2022			0.000228					
10/18/2022				0.066			<0.01015	
10/19/2022	0.000531	0.00283						0.000541
5/16/2023			<0.01015					
5/17/2023					0.0651			
5/22/2023				0.0593		<0.01015		
5/24/2023		<0.01015						
5/30/2023	<0.01015						<0.01015	<0.01015



# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.00347 (J)							
4/12/2016	0.00297 (J)							
5/31/2016	0.00261 (J)							
8/17/2016	0.0033 (J)							
10/11/2016	0.0041 (J)							
1/24/2017	0.00336 (J)							
5/9/2017	0.0031 (J)							
6/28/2017	0.00356 (J)							
2/27/2018	0.0042 (J)							
6/5/2018	0.00293 (J)							
11/6/2018	0.00318 (J)							
3/27/2019	0.00284 (J)							
9/11/2019	0.00328 (J)							
4/20/2020				<0.01015	0.00223 (J)		<0.01015	
4/21/2020	0.00255 (J)							
5/28/2020		<0.01015				<0.01015		<0.01015
7/6/2020			<0.01015					
8/11/2020		<0.01015	<0.01015	<0.01015		<0.01015		<0.01015
8/12/2020	0.00292 (J)				0.00278 (J)		<0.01015	
3/8/2021		<0.01015	<0.01015					
3/9/2021						<0.01015		0.000127 (J)
3/10/2021				0.00131	0.00289		0.000369	
3/16/2021	0.00358							
8/16/2021			<0.01015					
8/17/2021		9E-05 (J)				<0.01015		0.00018 (J)
8/23/2021	0.0031			0.00142	0.00312		0.00089	
3/23/2022		<0.01015	<0.01015			<0.01015		0.00012 (J)
4/4/2022	0.00354							
4/5/2022					0.00291		0.0004	
4/6/2022				0.00082				
10/3/2022			<0.01015					
10/4/2022		<0.01015				<0.01015		0.000225
10/5/2022					0.00277		0.000757	
10/17/2022	0.00287			0.00197				
5/15/2023			<0.01015					
5/17/2023	<0.01015							
5/23/2023		<0.01015			<0.01015	<0.01015	<0.01015	<0.01015
5/30/2023				<0.01015				

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.01015
2/17/2016	<0.01015						<0.01015	
4/12/2016	<0.01015							
4/13/2016							<0.01015	<0.01015
5/31/2016	<0.01015						<0.01015	
6/1/2016								<0.01015
8/17/2016	<0.01015						<0.01015	<0.01015
10/11/2016	<0.01015							
10/12/2016							<0.01015	<0.01015
1/24/2017	<0.01015							
1/25/2017							<0.01015	<0.01015
5/10/2017	<0.01015						<0.01015	<0.01015
6/28/2017	<0.01015						<0.01015	<0.01015
2/27/2018	<0.01015						<0.01015	<0.01015
6/5/2018	<0.01015						<0.01015	<0.01015
11/7/2018	<0.01015						<0.01015	<0.01015
3/26/2019	<0.01015						<0.01015	<0.01015
9/10/2019	<0.01015						<0.01015	<0.01015
4/21/2020	<0.01015						<0.01015	<0.01015
8/19/2020	<0.01015						<0.01015	<0.01015
3/9/2021	0.0024						0.000156 (J)	8.12E-05 (J)
8/17/2021		<0.01015	0.00151	0.00055	7E-05 (J)	0.0676		
8/24/2021	0.00211						0.00013 (J)	<0.01015
3/23/2022		<0.01015	0.00052	0.00013 (J)	<0.01015	0.0639		
3/29/2022	0.00142						0.00016 (J)	<0.01015
10/4/2022		<0.01015	0.000323	0.000145 (J)	<0.01015	0.0686		
10/18/2022	0.00149						0.00012 (J)	<0.01015
5/17/2023						0.072		
5/22/2023				<0.01015	<0.01015			
5/23/2023		<0.01015	<0.01015					
5/30/2023	<0.01015						<0.01015	<0.01015

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.01015	
4/13/2016	<0.01015	
6/1/2016	<0.01015	
8/17/2016	<0.01015	
10/12/2016	<0.01015	
1/25/2017	<0.01015	
5/10/2017	<0.01015	
6/28/2017	<0.01015	
2/27/2018	<0.01015	
6/5/2018	<0.01015	
11/7/2018	<0.01015	
3/26/2019	<0.01015	
9/10/2019	<0.01015	<0.01015
4/20/2020		<0.01015
4/21/2020	<0.01015	
8/17/2020		<0.01015
8/18/2020	<0.01015	
3/9/2021	<0.01015	
3/10/2021		<0.01015
8/17/2021		<0.01015
8/24/2021	<0.01015	
3/29/2022	<0.01015	
4/5/2022		<0.01015
10/5/2022		<0.01015
10/18/2022	<0.01015	
5/17/2023		<0.01015
5/30/2023	<0.01015	

# Time Series

Constituent: pH (SU) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		6.29		6.84	6.4	6.21		
2/17/2016	5.8		6.04				6.02	6.18
4/12/2016					6.41	6.37	6.17	
4/13/2016	5.85	6.21	6.07	7.03				6.28
5/31/2016		6.45	6.03	6.94	6.22	6.42	6.15	
6/1/2016	5.92							6.36
8/15/2016	5.99							6.37
8/16/2016		6.58	6.09	6.84	6.41		6.21	
8/17/2016						6.42		
10/11/2016	6.02						6.14	
10/12/2016		6.6	6.06	6.75	6.42	6.38		6.32
11/1/2016					6.55	6.33	6.15	
11/2/2016								6.33
1/24/2017	5.92						6.11	6.29
1/25/2017		6.47	5.94	6.87	6.76	6.37		
3/14/2017	5.96		6.08			6.3	6.09	6.27
3/15/2017		6.54		6.9	6.82			
5/9/2017	5.93		6.07	6.85	6.7	6.43		
5/10/2017		6.53					6.11	6.3
6/27/2017	5.86						6.09	6.28
6/28/2017		6.49	6.02	6.85	6.58	6.4		
8/29/2017		6.49	6.19	6.86	6.4	6.32		
8/30/2017	5.88						6.1	6.34
2/27/2018	5.92	6.59	6.21			6.28		
2/28/2018				6.94	6.72		6.11	6.33
6/4/2018	5.89							
6/5/2018		6.52	6.27				6.05	6.29
6/6/2018				6.99	6.57	6.25		
9/10/2018	5.89		6.33					
9/11/2018		6.53		6.87	6.64		6.18	
9/12/2018						6.42		6.36
11/5/2018			6.26	6.81	6.69			
11/6/2018	5.95						6.09	6.37
11/7/2018		6.51				6.42		
3/26/2019				6.95	6.54		6.1	6.34
3/27/2019	5.8	6.53	6.37			6.41		
9/10/2019	5.88	6.33	5.91	6.69		6.11	5.82	6.35
9/11/2019					6.22			
4/20/2020					6.68		6.16	6.43
4/21/2020	5.72			6.96		6.31		
4/22/2020		6.44	6.26					
8/11/2020						6.02		6.7
8/12/2020							6.1	
8/17/2020	5.54							
8/18/2020		6.33	6	6.98	6.76			
3/9/2021						6.48		6.29
3/10/2021			5.97	6.89			6.08	
3/15/2021		6.29			6			
3/16/2021	5.67							
8/17/2021	5.49							6.33
8/24/2021		6.04						
8/25/2021			6.38	7.04	6.66	6.21	6.12	

# Time Series

Constituent: pH (SU) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
3/29/2022				6.44			5.81	
3/30/2022			6.02					
4/4/2022	5.17 (D)	6.21 (D)				6.39 (D)		
4/6/2022					6.24			6.42 (D)
10/5/2022	5.59							
10/17/2022			6.28	6.88	6.22			
10/18/2022		6.62				6.46	6.29	6.53
5/16/2023	5.45							
5/17/2023			6.21					
5/23/2023							6.25	
5/24/2023		6.59				6.4		
5/30/2023				6.87				
5/31/2023					6.37			6.52



# Time Series

Constituent: pH (SU) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
3/16/2021			5.87					
8/17/2021	6.57	6.38	5.99					
8/18/2021								5.25
8/24/2021					6.09	5.16	5.25	
8/25/2021				6.51				
3/28/2022			5.32		6.08			
3/29/2022							5.26	
3/30/2022				6.09				
4/4/2022	6.71 (D)					4.4 (D)		5.2 (D)
4/6/2022		6.29 (D)						
10/5/2022			6.01					
10/17/2022		6.49		6.21	6.22	5.22		
10/18/2022	6.77						5.88	
10/19/2022								5.55
5/16/2023					6.09	4.8		
5/17/2023	6.71		5.79					
5/22/2023		6.1						
5/30/2023				6.03			5.45	5.07

# Time Series

Constituent: pH (SU) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				6.29				
4/12/2016				6.33				
6/1/2016				6.4				
8/15/2016				6.36				
8/16/2016			6.21		5.39	7.13	6	6.34
8/17/2016	5.47	6.15						
9/19/2016						6.94	6	6.11
9/20/2016	5.22	4.99	6.05		5.37			
10/11/2016			6.2	6.38	5.39	6.82	6.02	5.99
10/12/2016	5.1	4.88						
10/31/2016		4.87	6.61		5.36			
11/1/2016						6.71	5.97	5.84
11/14/2016						6.57	5.98	5.83
11/15/2016	5.07	4.81	6.64		5.33			
11/28/2016						6.57	6	5.79
11/29/2016	5.1	4.84	6.39		5.33			
1/3/2017						6.56	6.03	5.39
1/4/2017	5.3	4.88	6.06		5.49			
1/23/2017	5.12				5.48			
1/24/2017		5.4		6.34		6.41	5.9	
1/25/2017								5.09
1/26/2017			6.02					
3/13/2017			5.68					
3/14/2017	4.74	5.13		6.42	5.17	6.37	6.07	4.99
5/9/2017	4.83	4.96	5.05	6.35	5.11			
5/10/2017						6.41	6	4.63
5/31/2017							6.02	
6/27/2017	4.87	5.34	4.9		5.29	6.14	6.05	4.76
6/28/2017				6.32				
8/29/2017	4.71							
8/30/2017		4.69	4.73	6.32	5.09	6.08	6.13	4.85
2/27/2018	4.96	4.91	4.87	6.39	5.25	5.99	6.1	4.69
6/4/2018				6.4				
6/5/2018	5	4.87	4.89		5.12	5.93	6.05	4.62
9/11/2018	4.94	4.65	4.88		5.19	5.86	6.07	4.79
9/12/2018				6.35				
11/5/2018							6.01	
11/6/2018	4.9	4.67	4.86	6.34	5.12	5.89		4.62
3/26/2019	4.96	4.92	4.97		5.16			
3/27/2019				6.44		5.95	6.15	4.68
9/9/2019				6.22				
9/11/2019	4.85	4.33	3.96		4.11	5.85	5.87	4.57
4/20/2020				6.4				
4/21/2020	4.29	4.07	3.9		4.44			
4/22/2020						5.75	5.92	4.71
8/11/2020						5.63		
8/12/2020							5.84	4.65
8/17/2020				5.85				
8/18/2020	4.75	4.59	4.22		4.76			
3/15/2021	4.73	4.45	4.79		5.02	5.61	4.57	5.83
3/16/2021				6.23				
8/17/2021				6.13				



# Time Series

Constituent: pH (SU) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
8/18/2021	4.52	3.78	3.94	4.01			
8/23/2021					5.67	4.17	6.04
3/28/2022	4.73	4.69	4.67	4.93	5.05	5.01	4.29
4/5/2022				6.27 (D)			
10/5/2022				5.89	5.49	5.84	4.55
10/19/2022	5.02	4.87	5.01	5.29			
5/17/2023				5.94			
5/22/2023						5.98	4.58
5/23/2023					5.67		
5/30/2023	4.65	5.04	4.82	5.15			

# Time Series

Constituent: pH (SU) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					6.56			
1/15/2019				5.88		6.4	5.7	6.71
1/16/2019		5.99						
1/17/2019	5.65							
1/30/2019			7.87					
9/10/2019	4.87						5.61	
9/11/2019		5.6	7.2		6.55	6.17		5.96
4/20/2020							5.63	
4/21/2020		6.54						
4/22/2020	5.45		7.72	6.23	6.66	6.42		
4/29/2020								6.37
8/11/2020			7.69			6.7		
8/12/2020	4.78						5.83	
8/18/2020		6.03						5.93
8/19/2020				5.95	6.57			
3/9/2021			7.79			6.47		
3/10/2021					6.67		5.99	
3/15/2021	5.32							6.43
3/16/2021		6.16		6.32				
8/23/2021	5.54							
8/24/2021		6.08	7.06	6.12	5.84	6.13		
8/25/2021							5.91	6.13
3/28/2022	4.44							
3/29/2022				6.36				
3/30/2022			7.81		6.62		5.69	
4/6/2022		5.24				6.31 (D)		6.16
10/5/2022							5.77	
10/17/2022		6.19	7.92	6.23				
10/18/2022					6.7	6.59		6.39
10/19/2022	5.42							
5/22/2023			7.61					
5/23/2023		6.26		6.26	6.59			
5/24/2023						6.47		
5/31/2023	5.63						6.01	6.19

# Time Series

Constituent: pH (SU) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	6.29							
1/16/2019		6.48	6.39					
9/11/2019	6.2	6.52	6.11					
4/20/2020			6.11	7.14				
4/21/2020	6.01	6.18					6.5	6.28
5/28/2020						6.99		
7/6/2020					6.69			
8/11/2020					6.38	6.25		
8/12/2020			6.27					
8/17/2020				6.94			6.24	
8/19/2020	6.27	6.18						6.14
3/8/2021					6.86	5.74		
3/9/2021	6.29	6.47						
3/10/2021			6.14	6.83			6.35	6.14
8/17/2021					6.7	5.98		
8/18/2021	6.16	6.46		6.84			5.96	6.05
8/23/2021			6.07					
3/23/2022					6.55	5.3		
3/29/2022				6.83				
3/30/2022							5.4	5.72
4/4/2022			5.56 (D)					
4/6/2022	6.1 (D)	6.43 (D)						
10/4/2022					6.27	5.87		
10/5/2022			6.06					
10/18/2022				6.38			5.14	
10/19/2022	6.27	6.53						5.6
5/16/2023			6.14					
5/17/2023					6.7			
5/22/2023				6.65		5.53		
5/24/2023		6.38						
5/30/2023	6.2						5.45	5.6

# Time Series

Constituent: pH (SU) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	6.63							
4/12/2016	6.59							
5/31/2016	6.57							
8/17/2016	6.72							
10/11/2016	6.69							
1/24/2017	6.61							
3/14/2017	6.55							
5/9/2017	6.65							
6/28/2017	6.66							
8/30/2017	6.66							
2/27/2018	6.73							
6/5/2018	6.63							
9/11/2018	6.65							
11/6/2018	6.65							
3/27/2019	6.59							
9/11/2019	6.36							
4/20/2020				6.17	6.58		6.12	
4/21/2020	6.5							
5/28/2020		6.42				4.47		5.99
7/6/2020			6.07					
8/11/2020		6.24	6.08	5.8		5.1		6.16
8/12/2020	6.36				6.67		6.48	
3/8/2021		6.36	5.98					
3/9/2021						5.13		5.94
3/10/2021				6.58	6.87		5.96	
3/16/2021	6.64							
8/16/2021			5.98					
8/17/2021		6.07				4.89		5.85
8/23/2021	6.5			6.33	6.67		6.34	
3/23/2022		6.17	6.14			5.2		5.88
4/4/2022	6.42 (D)							
4/5/2022					6.59 (D)		5.41 (D)	
4/6/2022				6.23 (D)				
10/3/2022			5.84					
10/4/2022		6.27				5.03		6.06
10/5/2022					6.41		5.99	
10/17/2022	6.71			6.43				
5/15/2023			6.15					
5/17/2023	6.64							
5/23/2023		6.24			6.92	5.05	6	5.78
5/30/2023				6.66				

# Time Series

Constituent: pH (SU) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								6.16
2/17/2016	6.46						6.45	
4/12/2016	6.45							
4/13/2016							6.49	6.29
5/31/2016	6.51						6.43	
6/1/2016								6.33
8/17/2016	6.54						6.43	6.27
10/11/2016	6.53							
10/12/2016							6.46	6.3
1/24/2017	6.44							
1/25/2017							6.43	6.27
3/14/2017	6.4						6.41	
3/15/2017								6.27
5/10/2017	6.4						6.41	6.25
6/28/2017	6.46						6.46	6.25
8/29/2017	6.47						6.46	6.32
2/27/2018	6.53						6.45	6.36
6/5/2018	6.49						6.36	6.3
9/11/2018	6.48						6.38	6.36
11/7/2018	6.48						6.37	6.31
3/26/2019	6.54						6.39	6.32
9/10/2019	6.55						6.39	6.31
4/21/2020	6.54						6.39	6.06
8/19/2020	6.49						6.14	6.06
3/9/2021	6.43						6.45	6.31
8/17/2021		5.15	6.84	6.33	5.58	7.03		
8/24/2021	6.22						6.4	6.16
3/23/2022		5.22	6.38	5.82	5.34	6.92		
3/29/2022	5.99						6.62	6.21
10/4/2022		4.83	5.51	5.82	5.38	6.87		
10/18/2022	6.38						6.37	6.45
5/17/2023						6.86		
5/22/2023				5.81	5.05			
5/23/2023		5.26	5.99					
5/30/2023	6.5						6.42	6.62

# Time Series

Constituent: pH (SU) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	6.5	
4/13/2016	6.32	
6/1/2016	6.43	
8/17/2016	6.46	
10/12/2016	6.53	
1/25/2017	6.45	
3/15/2017	6.39	
5/10/2017	6.39	
6/28/2017	6.4	
8/29/2017	6.47	
2/27/2018	6.54	
6/5/2018	6.47	
9/11/2018	6.53	
9/12/2018		6.13
11/7/2018	6.49	
3/26/2019	6.47	
9/10/2019	6.43	5.79
4/20/2020		5.99
4/21/2020	6.25	
8/17/2020		5.94
8/18/2020	6.21	
3/9/2021	6.14	
3/10/2021		6.04
8/17/2021		5.64
8/24/2021	6.08	
3/29/2022	5.61	
4/5/2022		5.95 (D)
10/5/2022		5.42
10/18/2022	6.27	
5/17/2023		5.34
5/30/2023	6.38	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.001015		<0.001015	0.0227	<0.001015		
2/17/2016	0.00277 (J)		<0.001015				<0.001015	<0.001015
4/12/2016					0.0701	<0.001015	<0.001015	
4/13/2016	<0.001015	<0.001015	<0.001015	<0.001015				<0.001015
5/31/2016		<0.001015	<0.001015	<0.001015	0.0129	<0.001015	<0.001015	
6/1/2016	<0.001015							<0.001015
8/15/2016	<0.001015							<0.001015
8/16/2016		<0.001015	<0.001015	<0.001015	0.0208		<0.001015	
8/17/2016						<0.001015		
10/11/2016	<0.001015						<0.001015	
10/12/2016		<0.001015	<0.001015	<0.001015	0.00431 (J)	<0.001015		<0.001015
1/24/2017	<0.001015						<0.001015	<0.001015
1/25/2017		<0.001015	<0.001015	<0.001015	0.00779 (J)	<0.001015		
5/9/2017	<0.001015		<0.001015	<0.001015	0.00905 (J)	<0.001015		
5/10/2017		<0.001015					<0.001015	<0.001015
6/27/2017	0.00206 (J)						<0.001015	<0.001015
6/28/2017		<0.001015	<0.001015	<0.001015	0.0072 (J)	<0.001015		
2/27/2018	0.00206 (J)	<0.001015	<0.001015			<0.001015		
2/28/2018				<0.001015	0.00826 (J)		<0.001015	<0.001015
6/4/2018	<0.001015							
6/5/2018		<0.001015	<0.001015				<0.001015	<0.001015
6/6/2018				<0.001015	0.00496 (J)	<0.001015		
11/5/2018			<0.001015	<0.001015	<0.001015			
11/6/2018	<0.001015						<0.001015	<0.001015
11/7/2018		<0.001015				<0.001015		
3/26/2019				<0.001015	0.0239		<0.001015	<0.001015
3/27/2019	<0.001015	<0.001015	<0.001015			<0.001015		
9/10/2019	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015
9/11/2019					<0.001015			
4/20/2020					0.0125		<0.001015	<0.001015
4/21/2020	<0.001015			<0.001015		<0.001015		
4/22/2020		<0.001015	<0.001015					
8/11/2020						<0.001015		<0.001015
8/12/2020							<0.001015	
8/17/2020	<0.001015							
8/18/2020		<0.001015	<0.001015	<0.001015	0.00416 (J)			
3/9/2021						<0.001015		<0.001015
3/10/2021			<0.001015	<0.001015			<0.001015	
3/15/2021		<0.001015			0.0175			
3/16/2021	0.00163							
8/17/2021	0.00209							<0.001015
8/24/2021		<0.001015						
8/25/2021			<0.001015	0.00281	0.00826	<0.001015	<0.001015	
3/29/2022				<0.001015			<0.001015	
3/30/2022			<0.001015					
4/4/2022	0.00221	<0.001015				<0.001015		
4/6/2022					0.111 (o)			<0.001015
5/17/2022					0.0452 (R)			
10/5/2022	0.000737 (J)							
10/17/2022			<0.001015	0.00081 (J)	0.0103			
10/18/2022		<0.001015				<0.001015	<0.001015	<0.001015
5/16/2023	0.000809 (J)							

# Time Series

Constituent: Selenium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/17/2023			<0.001015					
5/23/2023							<0.001015	
5/24/2023		<0.001015				<0.001015		
5/30/2023				0.00122				
5/31/2023					0.0195			<0.001015



# Time Series

Constituent: Selenium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.001015				
2/17/2016	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	
4/12/2016		<0.001015			0.00205 (J)	<0.001015	<0.001015	
4/13/2016	<0.001015		<0.001015	<0.001015				
6/1/2016	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
8/15/2016	<0.001015	<0.001015	<0.001015					
8/16/2016				<0.001015	<0.001015	<0.001015		
8/17/2016							<0.001015	<0.001015
9/20/2016								<0.001015
10/11/2016			<0.001015		<0.001015	<0.001015	<0.001015	
10/12/2016	<0.001015	<0.001015		<0.001015				<0.001015
11/15/2016								<0.001015
1/4/2017								<0.001015
1/23/2017								0.00247 (J)
1/24/2017	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	
1/25/2017				<0.001015				
5/9/2017			<0.001015	<0.001015	<0.001015		<0.001015	0.0072 (J)
5/10/2017	<0.001015	<0.001015				<0.001015		
6/27/2017	<0.001015	<0.001015			<0.001015			0.00443 (J)
6/28/2017			<0.001015	<0.001015		0.00268 (J)	<0.001015	
2/27/2018			<0.001015		<0.001015	0.00281 (J)		<0.001015
2/28/2018	<0.001015	<0.001015		<0.001015			<0.001015	
6/4/2018			<0.001015					
6/5/2018	<0.001015	<0.001015			<0.001015	0.00294 (J)		<0.001015
6/6/2018				<0.001015			<0.001015	
11/5/2018				<0.001015				
11/6/2018	<0.001015	<0.001015	<0.001015				<0.001015	<0.001015
11/7/2018					<0.001015	<0.001015		
3/26/2019	<0.001015	<0.001015		<0.001015	<0.001015	0.00208 (J)		<0.001015
3/27/2019			<0.001015				<0.001015	
9/9/2019	<0.001015	<0.001015	<0.001015					
9/10/2019				<0.001015	<0.001015	<0.001015	<0.001015	
9/11/2019								<0.001015
4/21/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015			<0.001015
4/22/2020						<0.001015	<0.001015	
8/11/2020	<0.001015						<0.001015	
8/12/2020		<0.001015			<0.001015	<0.001015		
8/17/2020			<0.001015					
8/18/2020				<0.001015				<0.001015
3/9/2021	<0.001015	<0.001015						
3/10/2021				<0.001015	0.00117	0.00139	<0.001015	
3/15/2021								<0.001015
3/16/2021			<0.001015					
8/17/2021	<0.001015	<0.001015	0.00054 (J)					
8/18/2021								<0.001015
8/24/2021					0.00113	0.00093 (J)	<0.001015	
8/25/2021				<0.001015				
3/28/2022			0.00058 (J)		0.00099 (J)			
3/29/2022							<0.001015	
3/30/2022				<0.001015				
4/4/2022	<0.001015					0.00093 (J)		<0.001015
4/6/2022		<0.001015						

# Time Series

Constituent: Selenium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			<0.001015					
10/17/2022		<0.001015		<0.001015	0.000864 (J)	0.000816 (J)		
10/18/2022	<0.001015						<0.001015	
10/19/2022								<0.001015
5/16/2023					0.00102	0.000692 (J)		
5/17/2023	<0.001015		<0.001015					
5/22/2023		<0.001015						
5/30/2023				<0.001015			<0.001015	<0.001015

# Time Series

Constituent: Selenium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.001015				
4/12/2016				<0.001015				
6/1/2016				<0.001015				
8/15/2016				<0.001015				
8/16/2016			<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
8/17/2016	<0.001015	<0.001015						
9/19/2016						<0.001015	<0.001015	<0.001015
9/20/2016	<0.001015	<0.001015	<0.001015		<0.001015			
10/11/2016			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/12/2016	<0.001015	<0.001015						
11/14/2016						<0.001015	<0.001015	<0.001015
11/15/2016	<0.001015	<0.001015	<0.001015		<0.001015			
1/3/2017						<0.001015	<0.001015	<0.001015
1/4/2017	<0.001015	<0.001015	<0.001015		<0.001015			
1/23/2017	<0.001015				<0.001015			
1/24/2017		<0.001015		<0.001015		<0.001015	<0.001015	
1/25/2017								<0.001015
1/26/2017			<0.001015					
5/9/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015			
5/10/2017						<0.001015	<0.001015	<0.001015
6/27/2017	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
6/28/2017				<0.001015				
2/27/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/4/2018				<0.001015				
6/5/2018	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
11/5/2018							<0.001015	
11/6/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
3/26/2019	<0.001015	<0.001015	<0.001015		<0.001015			
3/27/2019				<0.001015		<0.001015	<0.001015	<0.001015
9/9/2019				<0.001015				
9/11/2019	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
4/20/2020				<0.001015				
4/21/2020	<0.001015	<0.001015	<0.001015		<0.001015			
4/22/2020						<0.001015	<0.001015	<0.001015
8/11/2020						<0.001015		
8/12/2020							<0.001015	<0.001015
8/17/2020				<0.001015				
8/18/2020	<0.001015	<0.001015	<0.001015		<0.001015			
3/15/2021	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
3/16/2021				0.000959 (J)				
8/17/2021				0.00097 (J)				
8/18/2021	<0.001015	<0.001015	<0.001015		<0.001015			
8/23/2021						<0.001015	0.00059 (J)	<0.001015
3/28/2022	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	0.00071 (J)
4/5/2022				0.00074 (J)				
10/5/2022				0.000612 (J)		<0.001015	<0.001015	<0.001015
10/19/2022	<0.001015	<0.001015	<0.001015		<0.001015			
5/17/2023				0.000551 (J)				
5/22/2023							<0.001015	0.000941 (J)
5/23/2023						<0.001015		
5/30/2023	<0.001015	<0.001015	<0.001015		<0.001015			

# Time Series

Constituent: Selenium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.018			
1/15/2019				<0.001015		<0.001015	<0.001015	<0.001015
1/16/2019		0.00367 (J)						
1/17/2019	<0.001015							
1/30/2019			<0.001015					
9/10/2019	<0.001015						<0.001015	
9/11/2019		0.00404 (J)	<0.001015		0.0155	<0.001015		<0.001015
4/20/2020							<0.001015	
4/21/2020		0.00451 (J)						
4/22/2020	<0.001015		<0.001015	<0.001015	0.0111	<0.001015		
4/29/2020								<0.001015
8/11/2020			<0.001015			<0.001015		
8/12/2020	<0.001015						<0.001015	
8/18/2020		0.00268 (J)						<0.001015
8/19/2020				<0.001015	0.0108			
3/9/2021			<0.001015			<0.001015		
3/10/2021					0.0124		<0.001015	
3/15/2021	0.000704 (J)							<0.001015
3/16/2021		0.00362		<0.001015				
8/23/2021	<0.001015							
8/24/2021		0.00237	<0.001015	<0.001015	0.0148	<0.001015		
8/25/2021							<0.001015	<0.001015
3/28/2022	0.0006 (J)							
3/29/2022				<0.001015				
3/30/2022			<0.001015		0.00902		<0.001015	
4/6/2022		0.00364				<0.001015		<0.001015
10/5/2022							<0.001015	
10/17/2022		0.00352	<0.001015	<0.001015				
10/18/2022					0.0197	<0.001015		<0.001015
10/19/2022	0.000622 (J)							
5/22/2023			<0.001015					
5/23/2023		0.00285		<0.001015	0.0163			
5/24/2023						<0.001015		
5/31/2023	<0.001015						<0.001015	<0.001015

# Time Series

Constituent: Selenium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.001015							
1/16/2019		<0.001015	<0.001015					
9/11/2019	<0.001015	<0.001015	<0.001015					
4/20/2020			<0.001015	<0.001015				
4/21/2020	<0.001015	<0.001015					<0.001015	<0.001015
5/28/2020						<0.001015		
7/6/2020					<0.001015			
8/11/2020					<0.001015	<0.001015		
8/12/2020			<0.001015					
8/17/2020				<0.001015			<0.001015	
8/19/2020	<0.001015	<0.001015						<0.001015
3/8/2021					<0.001015	<0.001015		
3/9/2021	<0.001015	<0.001015						
3/10/2021			<0.001015	<0.001015			<0.001015	<0.001015
8/17/2021					<0.001015	<0.001015		
8/18/2021	<0.001015	<0.001015		<0.001015			<0.001015	<0.001015
8/23/2021			<0.001015					
3/23/2022					<0.001015	<0.001015		
3/29/2022				<0.001015				
3/30/2022							<0.001015	<0.001015
4/4/2022			<0.001015					
4/6/2022	<0.001015	<0.001015						
10/4/2022					<0.001015	<0.001015		
10/5/2022			<0.001015					
10/18/2022				<0.001015			<0.001015	
10/19/2022	<0.001015	<0.001015						<0.001015
5/16/2023			<0.001015					
5/17/2023					<0.001015			
5/22/2023				<0.001015		<0.001015		
5/24/2023		<0.001015						
5/30/2023	<0.001015						<0.001015	<0.001015

# Time Series

Constituent: Selenium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.001015							
4/12/2016	<0.001015							
5/31/2016	<0.001015							
8/17/2016	<0.001015							
10/11/2016	<0.001015							
1/24/2017	<0.001015							
5/9/2017	<0.001015							
6/28/2017	<0.001015							
2/27/2018	<0.001015							
6/5/2018	<0.001015							
11/6/2018	<0.001015							
3/27/2019	<0.001015							
9/11/2019	<0.001015							
4/20/2020				<0.001015	<0.001015		<0.001015	
4/21/2020	<0.001015							
5/28/2020		<0.001015				<0.001015		<0.001015
7/6/2020			<0.001015					
8/11/2020		<0.001015	<0.001015	<0.001015		<0.001015		<0.001015
8/12/2020	<0.001015				<0.001015		<0.001015	
3/8/2021		<0.001015	<0.001015					
3/9/2021						<0.001015		0.000652 (J)
3/10/2021				<0.001015	<0.001015		<0.001015	
3/16/2021	<0.001015							
8/16/2021			<0.001015					
8/17/2021		<0.001015				<0.001015		0.00051 (J)
8/23/2021	<0.001015			<0.001015	<0.001015		<0.001015	
3/23/2022		<0.001015	<0.001015			<0.001015		0.00097 (J)
4/4/2022	<0.001015							
4/5/2022					<0.001015		0.00059 (J)	
4/6/2022				<0.001015				
10/3/2022			<0.001015					
10/4/2022		<0.001015				<0.001015		<0.001015
10/5/2022					<0.001015		<0.001015	
10/17/2022	<0.001015			<0.001015				
5/15/2023			<0.001015					
5/17/2023	<0.001015							
5/23/2023		<0.001015			<0.001015	<0.001015	<0.001015	<0.001015
5/30/2023				<0.001015				

# Time Series

Constituent: Selenium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.001015
2/17/2016	<0.001015						<0.001015	
4/12/2016	<0.001015							
4/13/2016							<0.001015	<0.001015
5/31/2016	<0.001015						<0.001015	
6/1/2016								<0.001015
8/17/2016	<0.001015						<0.001015	<0.001015
10/11/2016	<0.001015							
10/12/2016							<0.001015	<0.001015
1/24/2017	<0.001015							
1/25/2017							<0.001015	<0.001015
5/10/2017	<0.001015						<0.001015	<0.001015
6/28/2017	<0.001015						<0.001015	<0.001015
2/27/2018	<0.001015						<0.001015	<0.001015
6/5/2018	<0.001015						<0.001015	<0.001015
11/7/2018	<0.001015						<0.001015	<0.001015
3/26/2019	<0.001015						<0.001015	<0.001015
9/10/2019	<0.001015						<0.001015	<0.001015
4/21/2020	<0.001015						<0.001015	<0.001015
8/19/2020	<0.001015						<0.001015	<0.001015
3/9/2021	<0.001015						<0.001015	<0.001015
8/17/2021		0.00115	0.00058 (J)	<0.001015	<0.001015	<0.001015		
8/24/2021	<0.001015						<0.001015	<0.001015
3/23/2022		0.00122	0.00071 (J)	<0.001015	<0.001015	<0.001015		
3/29/2022	<0.001015						<0.001015	<0.001015
10/4/2022		0.00118	0.000631 (J)	<0.001015	<0.001015	<0.001015		
10/18/2022	<0.001015						<0.001015	<0.001015
5/17/2023						<0.001015		
5/22/2023				<0.001015	<0.001015			
5/23/2023		0.00114	0.000605 (J)					
5/30/2023	<0.001015						<0.001015	<0.001015

# Time Series

Constituent: Selenium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.001015	
4/13/2016	<0.001015	
6/1/2016	<0.001015	
8/17/2016	<0.001015	
10/12/2016	<0.001015	
1/25/2017	<0.001015	
5/10/2017	<0.001015	
6/28/2017	<0.001015	
2/27/2018	<0.001015	
6/5/2018	<0.001015	
11/7/2018	<0.001015	
3/26/2019	<0.001015	
9/10/2019	<0.001015	<0.001015
4/20/2020		0.00237 (J)
4/21/2020	<0.001015	
8/17/2020		<0.001015
8/18/2020	<0.001015	
3/9/2021	<0.001015	
3/10/2021		0.0013
8/17/2021		0.00321
8/24/2021	<0.001015	
3/29/2022	<0.001015	
4/5/2022		0.00192
10/5/2022		0.00692
10/18/2022	<0.001015	
5/17/2023		0.00189
5/30/2023	<0.001015	



# Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		9.03		119	113	108		
2/17/2016	785		40.2				187	87.4
4/12/2016					86.7	114	188	
4/13/2016	715	10.7	33.1	122				92.7
5/31/2016		10.2	28.1	94.3	83.1	114	183	
6/1/2016	832							111
8/15/2016	862							98.3
8/16/2016		9.1	38.5	67.1	59.3		196	
8/17/2016						85.4		
10/11/2016	888						216	
10/12/2016		7.24	38.3	94.1	99.3	53.5		99.3
1/24/2017	906						183	85.4
1/25/2017		9.71	32	101	113	75.4		
5/9/2017	810		44	91	74	84		
5/10/2017		11					160	74
6/27/2017	830						150	75
6/28/2017		10	88	71	71	120		
8/29/2017		14	110	80	72	180		
8/30/2017	910						160	87
6/4/2018	850							
6/5/2018		39	79				160	87
6/6/2018				62	48	450		
9/10/2018	920		80					
9/11/2018		29		63	62		140	
9/12/2018						200		63
11/5/2018			81	74	81			
11/6/2018	880						160	97
11/7/2018		45				180		
3/26/2019				92.3	92.4		157	123
3/27/2019	1090	66.2	83.2			335		
9/10/2019	992	50.5	87.2	89.3		193	150	68
9/11/2019					128			
4/20/2020					76.5		142	49.6
4/21/2020	874			121		168		
4/22/2020		63.2	58.7					
8/11/2020						242		55
8/12/2020							160	
8/17/2020	919							
8/18/2020		58.6	81.1	89	203			
3/9/2021						165		43.9
3/10/2021			73.2	155			136	
3/15/2021		68.5			204			
3/16/2021	933							
8/17/2021	745							46.6
8/24/2021		71.6						
8/25/2021			126	118	181	346	153	
3/29/2022				108			165	
3/30/2022			125					
4/4/2022	812.5 (D)	116.5 (D)				195.5 (D)		
4/6/2022					157			45.3 (D)
10/5/2022	737							
10/17/2022			144	96.199997	467			

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
10/18/2022		104				185	152	42.400002
5/16/2023	578							
5/17/2023			150					
5/23/2023							131	
5/24/2023		119				178		
5/30/2023				106				
5/31/2023					162			42.799999



# Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
3/30/2022				115				
4/4/2022	68.9 (D)					90.2		12.5
4/6/2022		16.05 (D)						
10/5/2022			590					
10/17/2022		23.299999		103	9.72	79.599998		
10/18/2022	64.900002						70.599998	
10/19/2022								12.5
5/16/2023					9.41	103		
5/17/2023	122		689					
5/22/2023		19.1						
5/30/2023				89.400002			88.099998	16

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<5				
4/12/2016				0.49 (J)				
6/1/2016				0.544 (J)				
8/15/2016				0.332 (J)				
8/16/2016			0.894 (J)		0.702 (J)	1.78	2.06	9.33
8/17/2016	0.928 (J)	6.46						
9/19/2016						2.06	1.44	11.2
9/20/2016	0.478 (J)	8.3	<1		<1			
10/11/2016			<1	<5	<1	2.33	1.38	12.6
10/12/2016	0.727 (J)	8.36						
11/14/2016						2.31	1.15	12.4
11/15/2016	0.448 (J)	8.75	1.19		<1			
1/3/2017						2.81	1.57	14.3
1/4/2017	0.627 (J)	7.85	<1		<1			
1/23/2017	1.34				0.493 (J)			
1/24/2017		6.62		<5		3.34	2.06	
1/25/2017								15.2
1/26/2017			0.6 (J)					
5/9/2017	<5	5.6	<1	2.1 (J)	<1			
5/10/2017						2.9 (J)	2.1 (J)	12
6/27/2017	<5	5.3	<1		<1	3.4 (J)	2.7 (J)	13
6/28/2017				<5				
8/29/2017	<5							
8/30/2017		8.2	<1	<5	<1	3.7 (J)	2.6 (J)	15
6/4/2018				1.4 (J)				
6/5/2018	2.1 (J)	8.3	1.4 (J)		<1	3.7 (J)	3.1 (J)	17
9/11/2018	<5	8.9	<1		<1	2.2 (J)	1.6 (J)	16
9/12/2018				<5				
11/5/2018							2.4 (J)	
11/6/2018	<5	8.6	<1	<5	<1	3.1 (J)		15
3/26/2019	1.66	10.1	0.594 (J)		<1			
3/27/2019				6.64		3.55	3.24	15.1
9/9/2019				6.56				
9/11/2019	1.29	10.6	<1		<1	3.83	2.66	14.5
4/20/2020				10.5				
4/21/2020	2.21	9.4	0.694 (J)		<1			
4/22/2020						3.78	2.51	9.64
8/11/2020						4.33		
8/12/2020							2.54	13.6
8/17/2020				17.3				
8/18/2020	1.57	10.3	0.608 (J)		<1			
3/15/2021	2.5	10.4	<1		<1	3.74	8.5	2.76
3/16/2021				7.62				
8/17/2021				12				
8/18/2021	3.18	10.1	0.86 (J)		0.754 (J)			
8/23/2021						4	9.18	2.44
3/28/2022	6.24	11.2	1.29 (J)		0.951 (J)	3.34	2.55	11.8
4/5/2022				14.95 (D)				
10/5/2022				5.11		4.08	2.71	12.2
10/19/2022	3.95	8.96	1.37 (J)		1.27 (J)			
5/17/2023				19.6				
5/22/2023						2.5		15.5

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
5/23/2023					3		
5/30/2023	5.96	10.1	1.11 (J)	1.44 (J)			

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					103			
1/15/2019				780		48.5	224	96
1/16/2019		34.9						
1/17/2019	47.9							
1/30/2019			11					
9/10/2019	27.1						291	
9/11/2019		30	11		60.5	44.1		79.1
4/20/2020							247	
4/21/2020		44.5						
4/22/2020	26.8		10.9	510	66.5	31.7		
4/29/2020								77.2
8/11/2020			8.73			51.7		
8/12/2020	13.5						285	
8/18/2020		28.8						76.6
8/19/2020				402	70			
3/9/2021			10.4			32.2		
3/10/2021					44.8		292	
3/15/2021	25.6							80.9
3/16/2021		32.4		368				
8/23/2021	24.8							
8/24/2021		22.9	9.79	383	68.2	34.1		
8/25/2021							330	147
3/28/2022	27							
3/29/2022				303				
3/30/2022			10.3		51.9		290	
4/6/2022		32.3				32.95 (D)		236
10/5/2022							264	
10/17/2022		25.6	9.18	306				
10/18/2022					40.599998	25		236
10/19/2022	22.6							
5/22/2023			10.9					
5/23/2023		25.200001		374	32.700001			
5/24/2023						26.200001		
5/31/2023	23.200001						251	292

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	9.73							
1/16/2019		74	394					
9/11/2019	9.43	45.7	409					
4/20/2020			429	157				
4/21/2020	12.4	59.7					90.2	90.8
5/28/2020						81.5		
7/6/2020					83.4			
8/11/2020					54.5	49.3		
8/12/2020			415					
8/17/2020				128			78	
8/19/2020	55.7	71.8						70.7
3/8/2021					96.1	31.4		
3/9/2021	74.8	91.3						
3/10/2021			410	90.9			62	76.1
8/17/2021					115	52.1		
8/18/2021	83.6	107		395			47	51.4
8/23/2021			406					
3/23/2022					131	61.1		
3/29/2022				337				
3/30/2022							36.4	106
4/4/2022			390					
4/6/2022	95.1 (D)	105.5 (D)						
10/4/2022					82.199997	42.799999		
10/5/2022			376					
10/18/2022				219			36.200001	
10/19/2022	168	109						109
5/16/2023			308					
5/17/2023					93			
5/22/2023				247		34.700001		
5/24/2023		103						
5/30/2023	124						25	127



# Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<1							
4/12/2016	0.483 (J)							
5/31/2016	0.518 (J)							
8/17/2016	3.63							
10/11/2016	15.6							
1/24/2017	28.9							
5/9/2017	25							
6/28/2017	45							
8/30/2017	96							
6/5/2018	36							
9/11/2018	48							
11/6/2018	93							
3/27/2019	33.4							
9/11/2019	149							
4/20/2020				14.7	242		252	
4/21/2020	163							
5/28/2020		94.7				10.3		198
7/6/2020			78.2					
8/11/2020		79	64.1	12.6		9.32		206
8/12/2020	132				180		274	
3/8/2021		71.5	56.9					
3/9/2021						9.2		202
3/10/2021				44.2	139		66.5	
3/16/2021	167							
8/16/2021			42.2					
8/17/2021		83.1				7.2		214
8/23/2021	155			11.6	106		117	
3/23/2022		60.4	38.9			8.46		225
4/4/2022	160							
4/5/2022					119 (D)		50.75 (D)	
4/6/2022				120 (D)				
10/3/2022			37.799999					
10/4/2022		79.400002				9		193
10/5/2022					101		54.799999	
10/17/2022	154			32.099998				
5/15/2023			51.799999					
5/17/2023	163							
5/23/2023		98.900002			80	5.78	53.599998	199
5/30/2023				74.199997				

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								49.4
2/17/2016	132						311	
4/12/2016	130							
4/13/2016							330	51.7
5/31/2016	111						324	
6/1/2016								51.2
8/17/2016	95.8						306	42.9
10/11/2016	101							
10/12/2016							296	39.5
1/24/2017	129							
1/25/2017							243	31.3
5/10/2017	120						210	30
6/28/2017	100						210	35
8/29/2017	95						220	40
6/5/2018	98						390	25
9/11/2018	100						360	23
11/7/2018	97						390	30
3/26/2019	120						430	21.6
9/10/2019	140						409	37.4
4/21/2020	153						318	43.3
8/19/2020	163						296	44.5
3/9/2021	187						347	71.7
8/17/2021		6.86	13	14.9	22.7	128		
8/24/2021	210						234	71.4
3/23/2022		6.73	10.1	15.9	18.5	156		
3/29/2022	190						187	75.3
10/4/2022		6.49	8.6	14.9	19.5	146		
10/18/2022	179						256	84.800003
5/17/2023						130		
5/22/2023				13.4	21.200001			
5/23/2023		6.96	8.72					
5/30/2023	210						236	69.5

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	45.2	
4/13/2016	43.9	
6/1/2016	32	
8/17/2016	31.9	
10/12/2016	39.6	
1/25/2017	44	
5/10/2017	32	
6/28/2017	34	
8/29/2017	34	
6/5/2018	22	
9/11/2018	33	
9/12/2018		400
11/7/2018	76	
3/26/2019	138	
9/10/2019	115	499
4/20/2020		482
4/21/2020	133	
8/17/2020		493
8/18/2020	115	
3/9/2021	107	
3/10/2021		510
8/17/2021		569
8/24/2021	139	
3/29/2022	193	
4/5/2022		822.5 (D)
10/5/2022		782
10/18/2022	171	
5/17/2023		840
5/30/2023	135	

# Time Series

Constituent: TDS (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		312		264	242	340		
2/17/2016	1540		158				408	310
4/12/2016					176	298	334	
4/13/2016	1200	324	161	238				372
5/31/2016		333	173	206	189	309	351	
6/1/2016	1440							360
8/15/2016	1420							366
8/16/2016		327	173	180	192		367	
8/17/2016						269		
10/11/2016	1420							
10/12/2016		312	173	223				
11/1/2016					244	252	372	
11/2/2016								374
1/24/2017	1350						354	380
1/25/2017		286	161	271	274	259		
5/9/2017	1540		195	236	191	285		
5/10/2017		326					332	381
6/27/2017	1470						331	404
6/28/2017		304	227	198	176	348		
8/29/2017		348	229	187	163	528		
8/30/2017	1530						317	420
6/4/2018	1370							
6/5/2018		346	200				318	408
6/6/2018				199	138	932		
9/10/2018	1380		183					
9/11/2018		335		184	185		321	
9/12/2018						180		415
11/5/2018			193	210	208			
11/6/2018	1450						331	447
11/7/2018		342				528		
3/26/2019				230	198		338 (D)	481
3/27/2019	1910	347	211			834		
9/10/2019	1740	351	201	218 (D)		658	358	453
9/11/2019					316			
4/20/2020					201		369	461
4/21/2020	1530			291		628		
4/22/2020		338	249					
8/11/2020						688		482
8/12/2020							401	
8/17/2020	1590							
8/18/2020		376	260	250	444			
3/9/2021						618		524
3/10/2021			274	331			397	
3/15/2021		406			374			
3/16/2021	1620							
8/17/2021	1340							490
8/24/2021		423						
8/25/2021			358	263	359	774	407	
3/29/2022				290			406	
3/30/2022			280					
4/4/2022	1310 (D)	443.5 (D)				644 (D)		
4/6/2022					298			472 (D)

# Time Series

Constituent: TDS (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
10/5/2022	1190							
10/17/2022			323	243	708			
10/18/2022		449				662	423	486
5/16/2023	1050							
5/17/2023			354					
5/23/2023							410	
5/24/2023		490				650		
5/30/2023				279				
5/31/2023					333			502

# Time Series

Constituent: TDS (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				264				
2/17/2016	328	464	516		142	53	144	
4/12/2016		491			155	38.7	140	
4/13/2016	373		508	226				
6/1/2016	442	468	494	231	148	46	139	
8/15/2016	392	454	476					
8/16/2016				181	132	48		
8/17/2016							142	64
9/20/2016								60
10/11/2016			508					
10/12/2016				225				54.7
11/2/2016	469	422			115	66.7	128	
11/29/2016								42
1/4/2017								56
1/23/2017								50.7
1/24/2017	464	408	510		107	78.7	124	
1/25/2017				277				
5/9/2017			510	255	80.7		136	126
5/10/2017	492	358				92.7		
6/27/2017	516	382			96.7			93.3
6/28/2017			480	175		118	145	
8/29/2017				218	120	128	139	84
8/30/2017	646	392	478					
6/4/2018			528					
6/5/2018	644	352			113	171		38.7
6/6/2018				207			153	
9/10/2018			472	197				
9/11/2018					108	170		35.3
9/12/2018	476	339					156	
11/5/2018				200				
11/6/2018	634	368	522				153	40.7
11/7/2018					96.7	163		
3/26/2019	516	406		218	103	174		36.7
3/27/2019			562				178	
9/9/2019	500	409 (D)	666					
9/10/2019				198	107	167	182	
9/11/2019								40.7
4/21/2020	490	429	878	265	107			39.3
4/22/2020						162	195	
8/11/2020	522						193	
8/12/2020		390			96	165		
8/17/2020			818					
8/18/2020				179				42
3/9/2021	684	412						
3/10/2021				296	105	179	246	
3/15/2021								42.7
3/16/2021			890					
8/17/2021	506	397	808					
8/18/2021								43.3
8/24/2021					96.7	167	224	
8/25/2021				207				
3/28/2022			868		96			

# Time Series

Constituent: TDS (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
3/29/2022							247	
3/30/2022				320				
4/4/2022	553 (D)					155		40.7
4/6/2022		408.5 (D)						
10/5/2022			864					
10/17/2022		382		311	83.300003	134		
10/18/2022	598						256	
10/19/2022								54
5/16/2023					86	182		
5/17/2023	648		1030					
5/22/2023		362						
5/30/2023				237			225	57.299999

# Time Series

Constituent: TDS (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				358				
4/12/2016				393				
6/1/2016				381				
8/15/2016				348				
8/16/2016			41.3		<25	142	49.3	101
8/17/2016	36.7	65.3						
9/19/2016						121	44.7	80
9/20/2016	25.3	44	42.7		26.7			
10/11/2016				379				
10/12/2016	<25							
10/31/2016		38.7	140		25.3			
11/1/2016						103	48	78
11/28/2016						84	40.7	68.7
11/29/2016	<25	34	78		<25			
1/3/2017						89.3	49.3	60.7
1/4/2017	27.3	42	34		34.7			
1/23/2017	<25				33.3			
1/24/2017		45.3		354		83.3	48.7	
1/25/2017								54.7
1/26/2017			32.7					
5/9/2017	28.7	49.3	<25	368	<25			
5/10/2017						31.3	46.7	60.7
6/27/2017	27.3	46	30.7		<25	67.3	55.3	58
6/28/2017				368				
8/29/2017	30.7							
8/30/2017		38.7	25.3	370	28	64	57.3	66.7
6/4/2018				369				
6/5/2018	26	34.7	<25		28.7	50	52.7	71.3
9/11/2018	<25	34.7	<25		29.3	53.3	60	66.7
9/12/2018				354				
11/5/2018							53.3	
11/6/2018	26	36	<25	354	<25	66		61.3
3/26/2019	<25	30	<25		26.15 (D)			
3/27/2019				362		48.7	51.35 (D)	65.3
9/9/2019				371				
9/11/2019	27.3	40	<25		34	52.7	55.3	68.3 (D)
4/20/2020				371				
4/21/2020	30.7	36	<25		26.7			
4/22/2020						49.3	52.7	62.7
8/11/2020						52		
8/12/2020							49.3	62
8/17/2020				361				
8/18/2020	27.3	35.3	<25		30			
3/15/2021	30.7	30	<25		30	49.3	46	48
3/16/2021				340				
8/17/2021				297				
8/18/2021	28.7	32	<25		28.7			
8/23/2021						49.3	64.7	48.7
3/28/2022	32.7	38.7	<25		27.3	43.3	51.3	57.3
4/5/2022				338 (D)				
10/5/2022				319		40.700001	43.299999	62.700001
10/19/2022	26	28.700001	<25		28			



# Time Series

Constituent: TDS (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
5/17/2023				349				
5/22/2023							51.299999	66
5/23/2023						47.299999		
5/30/2023	33.299999	32.700001	<25		28.700001			

# Time Series

Constituent: TDS (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					381			
1/15/2019				1210		597	392	433
1/16/2019		85.3						
1/17/2019	156							
1/30/2019			184					
9/10/2019	112						576	
9/11/2019		100	182		280	454		334
4/20/2020							534	
4/21/2020		176						
4/22/2020	114		199	977	290	512		
4/29/2020								317
8/11/2020			184			526		
8/12/2020	66						588	
8/18/2020		100						299
8/19/2020				834	308			
3/9/2021			185			524		
3/10/2021					308		602	
3/15/2021	96							321
3/16/2021		111		756				
8/23/2021	89.3							
8/24/2021		94	181	742	345	490		
8/25/2021							562	376
3/28/2022	88.7							
3/29/2022				624				
3/30/2022			170		282		493	
4/6/2022		92				450 (D)		488
10/5/2022							471	
10/17/2022		96	165	706				
10/18/2022					288	478		484
10/19/2022	86.699997							
5/22/2023			167					
5/23/2023		90.699997		834	284			
5/24/2023						512		
5/31/2023	116						465	565

# Time Series

Constituent: TDS (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	334							
1/16/2019		345	706					
9/11/2019	299	366 (D)	1570					
4/20/2020			790	369				
4/21/2020	299	463					208	222
5/28/2020						195		
7/6/2020					260			
8/11/2020					258	109		
8/12/2020			728					
8/17/2020				305			181	
8/19/2020	371	534						171
3/8/2021					282	93.3		
3/9/2021	375	570						
3/10/2021			794	247			158	181
8/17/2021					303	121		
8/18/2021	401	578		730			121	130
8/23/2021			714					
3/23/2022					300	137		
3/29/2022				646				
3/30/2022							84	184
4/4/2022			604					
4/6/2022	363.5 (D)	551 (D)						
10/4/2022					257	98.699997		
10/5/2022			606					
10/18/2022				388			88.699997	
10/19/2022	431	554						211
5/16/2023			545					
5/17/2023					257			
5/22/2023				508		89.300003		
5/24/2023		578						
5/30/2023	377						66.699997	229

# Time Series

Constituent: TDS (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	238							
4/12/2016	316							
5/31/2016	320							
8/17/2016	325							
10/11/2016	333							
1/24/2017	336							
5/9/2017	317							
6/28/2017	373							
8/30/2017	432							
6/5/2018	347							
9/11/2018	370							
11/6/2018	409							
3/27/2019	328							
9/11/2019	455							
4/20/2020				441	545		502	
4/21/2020	494							
5/28/2020		242				56.7		401
7/6/2020			498					
8/11/2020		229	462	434		52.7		407
8/12/2020	433				497		491	
3/8/2021		218	469					
3/9/2021						52		386
3/10/2021				408	444		273	
3/16/2021	510							
8/16/2021			423					
8/17/2021		217				45.3		403
8/23/2021	481			390	405		301	
3/23/2022		236	518			47.3		389
4/4/2022	488							
4/5/2022					419 (D)		154 (D)	
4/6/2022				428 (D)				
10/3/2022			425					
10/4/2022		217				38.700001		377
10/5/2022					403		206	
10/17/2022	483			382				
5/15/2023			468					
5/17/2023	496							
5/23/2023		244			428	34	164	376
5/30/2023				427				

# Time Series

Constituent: TDS (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								656
2/17/2016	640						892	
4/12/2016	610							
4/13/2016							1010	634
5/31/2016	626						1100	
6/1/2016								672
8/17/2016	628						1070	624
10/11/2016	636							
10/12/2016							1040	586
1/24/2017	696							
1/25/2017							972	596
5/10/2017	687						740	576
6/28/2017	622						914	612
8/29/2017	616						924	640
6/5/2018	582						1060	474
9/11/2018	616						1020	496
11/7/2018	576						1050	514
3/26/2019	682						1100	546
9/10/2019	744						1100	601 (D)
4/21/2020	742						1010	638
8/19/2020	788						1050	658
3/9/2021	716						1090	746
8/17/2021		43.3	107	59.3	53.3	318		
8/24/2021	792						930	690
3/23/2022		39.3	74	44.7	41.3	373		
3/29/2022	722						894	730
10/4/2022		28	54	42	48	330		
10/18/2022	752						1040	700
5/17/2023						318		
5/22/2023				50.700001	46			
5/23/2023		46	57.299999					
5/30/2023	818						1000	676

# Time Series

Constituent: TDS (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	226	
4/13/2016	202	
6/1/2016	224	
8/17/2016	290	
10/12/2016	315	
1/25/2017	332	
5/10/2017	361	
6/28/2017	396	
8/29/2017	402	
6/5/2018	448	
9/11/2018	462	
9/12/2018		714
11/7/2018	506	
3/26/2019	586	
9/10/2019	586	854
4/20/2020		824
4/21/2020	578	
8/17/2020		826
8/18/2020	542	
3/9/2021	532	
3/10/2021		876
8/17/2021		900
8/24/2021	624	
3/29/2022	800	
4/5/2022		1225 (D)
10/5/2022		1150
10/18/2022	692	
5/17/2023		1330
5/30/2023	646	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.000203		<0.000203	<0.000203	<0.000203		
2/17/2016	0.000601 (J)		0.000869 (J)				0.000697 (J)	0.000687 (J)
4/12/2016					<0.000203	<0.000203	<0.000203	
4/13/2016	<0.000203	<0.000203	<0.000203	<0.000203				<0.000203
5/31/2016		<0.000203	<0.000203	<0.000203	0.000212 (J)	<0.000203	<0.000203	
6/1/2016	<0.000203							0.000272 (J)
8/15/2016	<0.000203							0.000278 (J)
8/16/2016		<0.000203	<0.000203	<0.000203	0.000449 (J)		<0.000203	
8/17/2016						<0.000203		
10/11/2016	<0.000203						<0.000203	
10/12/2016		<0.000203	<0.000203	<0.000203	0.000532 (J)	<0.000203		0.000322 (J)
1/24/2017	<0.000203						<0.000203	0.000265 (J)
1/25/2017		<0.000203	<0.000203	<0.000203	0.000309 (J)	<0.000203		
5/9/2017	<0.000203		<0.000203	<0.000203	0.00021 (J)	<0.000203		
5/10/2017		<0.000203					<0.000203	0.000327 (J)
6/27/2017	<0.000203						<0.000203	0.000301 (J)
6/28/2017		<0.000203	<0.000203	<0.000203	0.000244 (J)	<0.000203		
2/27/2018	<0.000203	<0.000203	<0.000203			<0.000203		
2/28/2018				<0.000203	<0.000203		<0.000203	0.000321 (J)
6/4/2018	<0.000203							
6/5/2018		<0.000203	<0.000203				<0.000203	0.000288 (J)
6/6/2018				<0.000203	0.000239 (J)	<0.000203		
11/5/2018			<0.000203	<0.000203	0.000623 (J)			
11/6/2018	<0.000203						<0.000203	0.000354 (J)
11/7/2018		<0.000203				<0.000203		
3/26/2019				<0.000203	0.000215 (J)		<0.000203	0.00041 (J)
3/27/2019	<0.000203	<0.000203	<0.000203			<0.000203		
9/10/2019	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	0.000396 (J)
9/11/2019					0.00214			
4/20/2020					0.000433 (J)		<0.000203	0.00032 (J)
4/21/2020	<0.000203			<0.000203		<0.000203		
4/22/2020		<0.000203	<0.000203					
8/11/2020						<0.000203		0.000329 (J)
8/12/2020							<0.000203	
8/17/2020	<0.000203							
8/18/2020		<0.000203	<0.000203	<0.000203	0.00114			
3/9/2021						<0.000203		0.000369
3/10/2021			8.7E-05 (J)	<0.000203			8.78E-05 (J)	
3/15/2021		<0.000203			0.000506			
3/16/2021	0.000107 (J)							
8/17/2021	0.00012 (J)							0.00036
8/24/2021		<0.000203						
8/25/2021			9E-05 (J)	<0.000203	0.00124	<0.000203	<0.000203	
3/29/2022				<0.000203			0.00012 (J)	
3/30/2022			7E-05 (J)					
4/4/2022	0.00016 (J)	<0.000203				<0.000203		
4/6/2022					0.00169			0.00035
10/5/2022	0.000149 (J)							
10/17/2022			<0.000203	<0.000203	0.00238			
10/18/2022		<0.000203				<0.000203	8.4E-05 (J)	0.000337
5/16/2023	9.8E-05 (J)							
5/17/2023			7.3E-05 (J)					

# Time Series

Constituent: Thallium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							8.8E-05 (J)	
5/24/2023		<0.000203				<0.000203		
5/30/2023				<0.000203				
5/31/2023					0.000342			0.000316



# Time Series

Constituent: Thallium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.000203				
2/17/2016	0.00067 (J)	0.000404 (J)	0.000388 (J)		0.000364 (J)	0.00039 (J)	0.000232 (J)	
4/12/2016		<0.000203			<0.000203	<0.000203	<0.000203	
4/13/2016	<0.000203		<0.000203	<0.000203				
6/1/2016	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
8/15/2016	<0.000203	<0.000203	<0.000203					
8/16/2016				<0.000203	<0.000203	<0.000203		
8/17/2016							<0.000203	<0.000203
9/20/2016								<0.000203
10/11/2016			<0.000203		<0.000203	<0.000203	<0.000203	
10/12/2016	<0.000203	<0.000203		<0.000203				<0.000203
11/15/2016								<0.000203
1/4/2017								<0.000203
1/23/2017								<0.000203
1/24/2017	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	
1/25/2017				<0.000203				
5/9/2017			<0.000203	<0.000203	<0.000203		<0.000203	<0.000203
5/10/2017	<0.000203	<0.000203				<0.000203		
6/27/2017	<0.000203	<0.000203			<0.000203			<0.000203
6/28/2017			<0.000203	<0.000203		<0.000203	<0.000203	
2/27/2018			<0.000203		<0.000203	<0.000203		<0.000203
2/28/2018	<0.000203	<0.000203		<0.000203			<0.000203	
6/4/2018			<0.000203					
6/5/2018	<0.000203	<0.000203			<0.000203	<0.000203		<0.000203
6/6/2018				<0.000203			<0.000203	
11/5/2018				<0.000203				
11/6/2018	<0.000203	<0.000203	<0.000203				<0.000203	<0.000203
11/7/2018					<0.000203	<0.000203		
3/26/2019	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203		<0.000203
3/27/2019			<0.000203				<0.000203	
9/9/2019	<0.000203	<0.000203	<0.000203					
9/10/2019				<0.000203	<0.000203	<0.000203	<0.000203	
9/11/2019								<0.000203
4/21/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203			<0.000203
4/22/2020						<0.000203	<0.000203	
8/11/2020	<0.000203						<0.000203	
8/12/2020		<0.000203			<0.000203	<0.000203		
8/17/2020			<0.000203					
8/18/2020				<0.000203				<0.000203
3/9/2021	<0.000203	<0.000203						
3/10/2021				0.000106 (J)	<0.000203	<0.000203	<0.000203	
3/15/2021								<0.000203
3/16/2021			0.000101 (J)					
8/17/2021	<0.000203	<0.000203	0.00013 (J)					
8/18/2021								<0.000203
8/24/2021					<0.000203	<0.000203	<0.000203	
8/25/2021				<0.000203				
3/28/2022			0.00015 (J)		<0.000203			
3/29/2022							<0.000203	
3/30/2022				0.00011 (J)				
4/4/2022	<0.000203					<0.000203		<0.000203
4/6/2022		<0.000203						

# Time Series

Constituent: Thallium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			0.000158 (J)					
10/17/2022		<0.000203		0.00012 (J)	<0.000203	<0.000203		
10/18/2022	<0.000203						<0.000203	
10/19/2022								<0.000203
5/16/2023					<0.000203	<0.000203		
5/17/2023	<0.000203		9.4E-05 (J)					
5/22/2023		<0.000203						
5/30/2023				<0.000203			<0.000203	<0.000203

# Time Series

Constituent: Thallium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				0.00038 (J)				
4/12/2016				<0.000203				
6/1/2016				<0.000203				
8/15/2016				<0.000203				
8/16/2016			<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
8/17/2016	<0.000203	<0.000203						
9/19/2016						<0.000203	<0.000203	<0.000203
9/20/2016	<0.000203	<0.000203	<0.000203		<0.000203			
10/11/2016			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
10/12/2016	<0.000203	<0.000203						
11/14/2016						<0.000203	<0.000203	<0.000203
11/15/2016	<0.000203	<0.000203	<0.000203		<0.000203			
1/3/2017						<0.000203	<0.000203	<0.000203
1/4/2017	<0.000203	<0.000203	<0.000203		<0.000203			
1/23/2017	<0.000203				<0.000203			
1/24/2017		<0.000203		<0.000203		<0.000203	<0.000203	
1/25/2017								<0.000203
1/26/2017			<0.000203					
5/9/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203			
5/10/2017						<0.000203	<0.000203	<0.000203
6/27/2017	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
6/28/2017				<0.000203				
2/27/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
6/4/2018				<0.000203				
6/5/2018	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
11/5/2018							<0.000203	
11/6/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
3/26/2019	<0.000203	<0.000203	<0.000203		<0.000203			
3/27/2019				<0.000203		<0.000203	<0.000203	<0.000203
9/9/2019				<0.000203				
9/11/2019	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
4/20/2020				<0.000203				
4/21/2020	<0.000203	<0.000203	<0.000203		<0.000203			
4/22/2020						<0.000203	<0.000203	<0.000203
8/11/2020						<0.000203		
8/12/2020							<0.000203	<0.000203
8/17/2020				<0.000203				
8/18/2020	<0.000203	<0.000203	<0.000203		<0.000203			
3/15/2021	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
3/16/2021				<0.000203				
8/17/2021				<0.000203				
8/18/2021	<0.000203	<0.000203	<0.000203		<0.000203			
8/23/2021						<0.000203	<0.000203	<0.000203
3/28/2022	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
4/5/2022				<0.000203				
10/5/2022				<0.000203		<0.000203	<0.000203	<0.000203
10/19/2022	<0.000203	<0.000203	<0.000203		<0.000203			
5/17/2023				<0.000203				
5/22/2023							<0.000203	<0.000203
5/23/2023						<0.000203		
5/30/2023	<0.000203	<0.000203	<0.000203		<0.000203			

# Time Series

Constituent: Thallium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.000203			
1/15/2019				<0.000203		0.00092 (J)	<0.000203	<0.000203
1/16/2019		<0.000203						
1/17/2019	<0.000203							
1/30/2019			<0.000203					
9/10/2019	<0.000203						0.000223 (J)	
9/11/2019		<0.000203	<0.000203		<0.000203	0.000983 (J)		<0.000203
4/20/2020							<0.000203	
4/21/2020		<0.000203						
4/22/2020	<0.000203		<0.000203	<0.000203	<0.000203	0.0008 (J)		
4/29/2020								<0.000203
8/11/2020			<0.000203			0.000814 (J)		
8/12/2020	<0.000203						0.000208 (J)	
8/18/2020		<0.000203						<0.000203
8/19/2020				<0.000203	<0.000203			
3/9/2021			<0.000203			0.000828		
3/10/2021					<0.000203		0.000186 (J)	
3/15/2021	<0.000203							<0.000203
3/16/2021		<0.000203		<0.000203				
8/23/2021	<0.000203							
8/24/2021		<0.000203	<0.000203	<0.000203	<0.000203	0.00076		
8/25/2021							0.00013 (J)	<0.000203
3/28/2022	<0.000203							
3/29/2022				<0.000203				
3/30/2022			<0.000203		<0.000203		0.00017 (J)	
4/6/2022		<0.000203				0.00059		<0.000203
10/5/2022							0.000188 (J)	
10/17/2022		<0.000203	<0.000203	<0.000203				
10/18/2022					<0.000203	0.000636		<0.000203
10/19/2022	<0.000203							
5/22/2023			<0.000203					
5/23/2023		<0.000203		<0.000203	<0.000203			
5/24/2023						0.000665		
5/31/2023	<0.000203						7.6E-05 (J)	<0.000203

# Time Series

Constituent: Thallium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.000203							
1/16/2019		<0.000203	<0.000203					
9/11/2019	<0.000203	<0.000203	<0.000203					
4/20/2020			<0.000203	<0.000203				
4/21/2020	<0.000203	<0.000203					<0.000203	<0.000203
5/28/2020						<0.000203		
7/6/2020					<0.000203			
8/11/2020					<0.000203	<0.000203		
8/12/2020			<0.000203					
8/17/2020				<0.000203			<0.000203	
8/19/2020	<0.000203	<0.000203						<0.000203
3/8/2021					<0.000203	<0.000203		
3/9/2021	<0.000203	<0.000203						
3/10/2021			<0.000203	0.000103 (J)			<0.000203	<0.000203
8/17/2021					<0.000203	<0.000203		
8/18/2021	<0.000203	<0.000203		0.00021			<0.000203	<0.000203
8/23/2021			<0.000203					
3/23/2022					7E-05 (J)	<0.000203		
3/29/2022				0.00013 (J)				
3/30/2022							<0.000203	<0.000203
4/4/2022			<0.000203					
4/6/2022	<0.000203	<0.000203						
10/4/2022					<0.000203	<0.000203		
10/5/2022			8.7E-05 (J)					
10/18/2022				0.000159 (J)			<0.000203	
10/19/2022	<0.000203	<0.000203						<0.000203
5/16/2023			<0.000203					
5/17/2023					<0.000203			
5/22/2023				0.000273		<0.000203		
5/24/2023		<0.000203						
5/30/2023	<0.000203						<0.000203	<0.000203

# Time Series

Constituent: Thallium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.000779 (J)							
4/12/2016	<0.000203							
5/31/2016	<0.000203							
8/17/2016	<0.000203							
10/11/2016	<0.000203							
1/24/2017	<0.000203							
5/9/2017	<0.000203							
6/28/2017	<0.000203							
2/27/2018	<0.000203							
6/5/2018	<0.000203							
11/6/2018	<0.000203							
3/27/2019	<0.000203							
9/11/2019	<0.000203							
4/20/2020				<0.000203	<0.000203		<0.000203	
4/21/2020	<0.000203							
5/28/2020		<0.000203				<0.000203		<0.000203
7/6/2020			<0.000203					
8/11/2020		<0.000203	<0.000203	<0.000203		<0.000203		<0.000203
8/12/2020	<0.000203				<0.000203		<0.000203	
3/8/2021		<0.000203	<0.000203					
3/9/2021						<0.000203		<0.000203
3/10/2021				<0.000203	<0.000203		<0.000203	
3/16/2021	<0.000203							
8/16/2021			<0.000203					
8/17/2021		8E-05 (J)				<0.000203		0.00012 (J)
8/23/2021	<0.000203			<0.000203	<0.000203		<0.000203	
3/23/2022		0.00011 (J)	<0.000203			<0.000203		0.00013 (J)
4/4/2022	<0.000203							
4/5/2022					<0.000203		<0.000203	
4/6/2022				<0.000203				
10/3/2022			<0.000203					
10/4/2022		<0.000203				<0.000203		8.8E-05 (J)
10/5/2022					<0.000203		<0.000203	
10/17/2022	<0.000203			<0.000203				
5/15/2023			<0.000203					
5/17/2023	<0.000203							
5/23/2023		9.1E-05 (J)			<0.000203	<0.000203	<0.000203	0.000118 (J)
5/30/2023				<0.000203				

# Time Series

Constituent: Thallium (mg/L) Analysis Run 7/19/2023 1:51 PM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.000203
2/17/2016	0.000639 (J)						0.00042 (J)	
4/12/2016	<0.000203							
4/13/2016							<0.000203	<0.000203
5/31/2016	<0.000203						<0.000203	
6/1/2016								<0.000203
8/17/2016	<0.000203						<0.000203	<0.000203
10/11/2016	<0.000203							
10/12/2016							<0.000203	<0.000203
1/24/2017	<0.000203							
1/25/2017							<0.000203	<0.000203
5/10/2017	<0.000203						<0.000203	<0.000203
6/28/2017	<0.000203						<0.000203	<0.000203
2/27/2018	<0.000203						<0.000203	<0.000203
6/5/2018	<0.000203						<0.000203	<0.000203
11/7/2018	<0.000203						<0.000203	<0.000203
3/26/2019	<0.000203						<0.000203	<0.000203
9/10/2019	<0.000203						<0.000203	<0.000203
4/21/2020	<0.000203						<0.000203	<0.000203
8/19/2020	<0.000203						<0.000203	<0.000203
3/9/2021	<0.000203						<0.000203	<0.000203
8/17/2021		<0.000203	<0.000203	<0.000203	<0.000203	8E-05 (J)		
8/24/2021	<0.000203						<0.000203	<0.000203
3/23/2022		<0.000203	<0.000203	<0.000203	<0.000203	9E-05 (J)		
3/29/2022	<0.000203						<0.000203	<0.000203
10/4/2022		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
10/18/2022	<0.000203						<0.000203	<0.000203
5/17/2023							<0.000203	
5/22/2023				<0.000203	<0.000203			
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5/30/2023	<0.000203						<0.000203	<0.000203

# Time Series

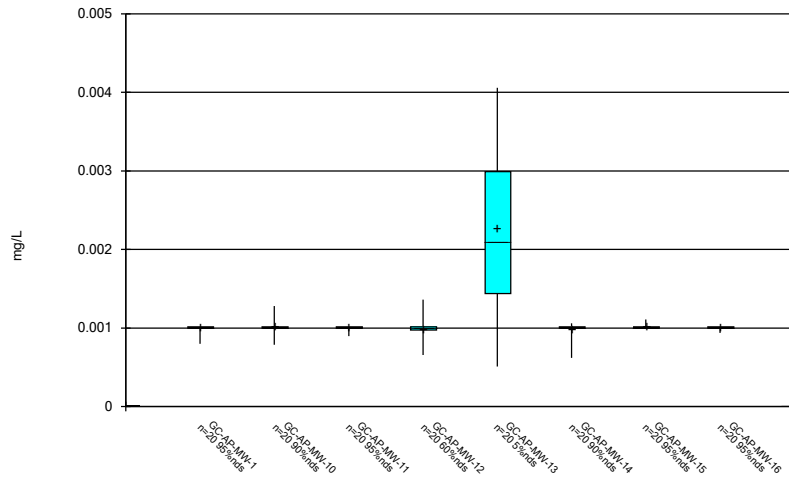
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Plant Greene County Client: Southern Company Data: Greene County AP

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6/1/2016	<0.000203	
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6/5/2018	<0.000203	
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3/26/2019	<0.000203	
9/10/2019	<0.000203	<0.000203
4/20/2020		<0.000203
4/21/2020	<0.000203	
8/17/2020		<0.000203
8/18/2020	<0.000203	
3/9/2021	<0.000203	
3/10/2021		7.61E-05 (J)
8/17/2021		0.00011 (J)
8/24/2021	<0.000203	
3/29/2022	<0.000203	
4/5/2022		9E-05 (J)
10/5/2022		0.000158 (J)
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5/30/2023	<0.000203	



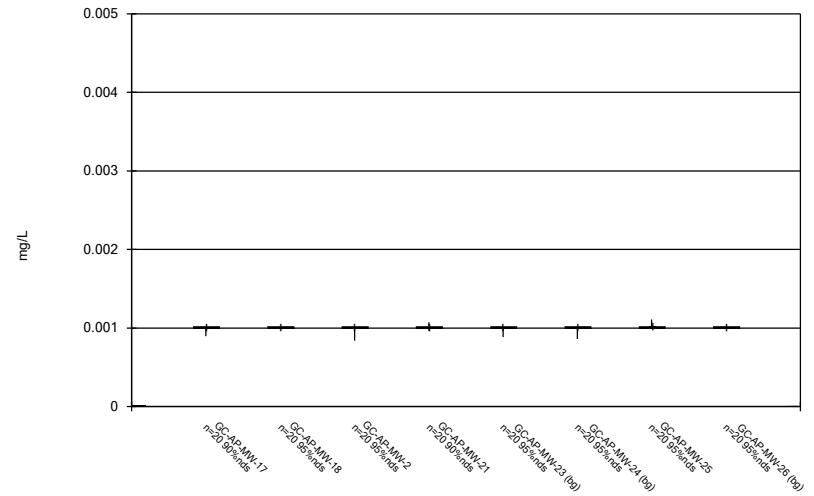
FIGURE B.

Box & Whiskers Plot



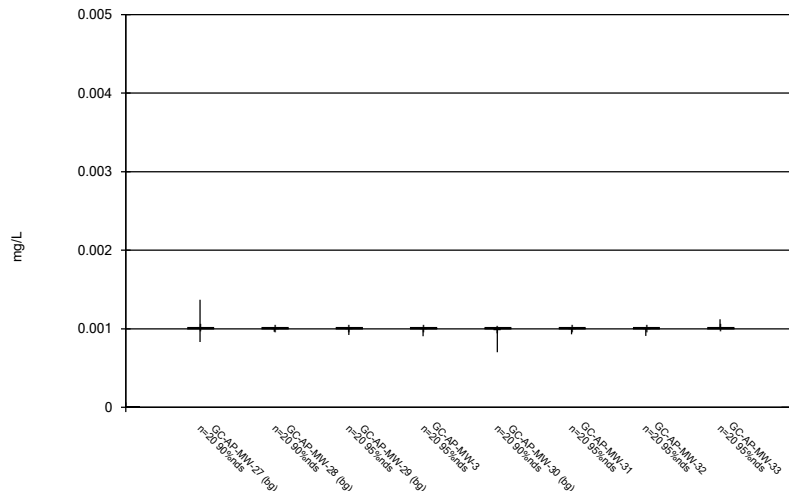
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



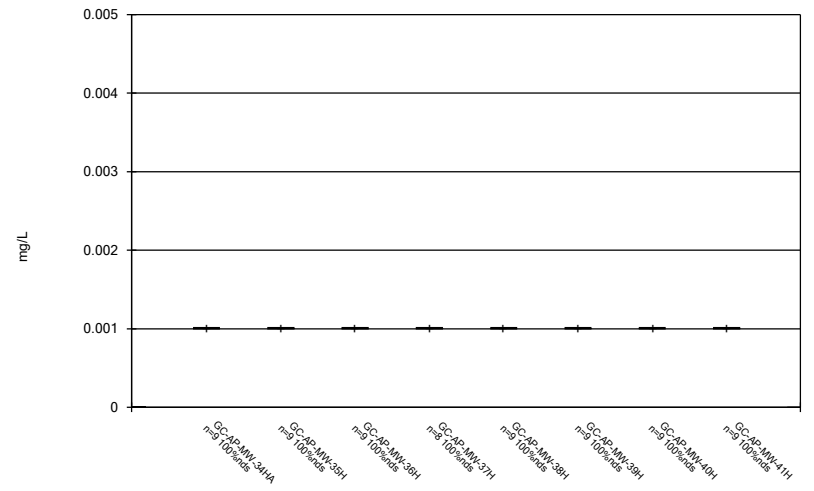
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Box & Whiskers Plot



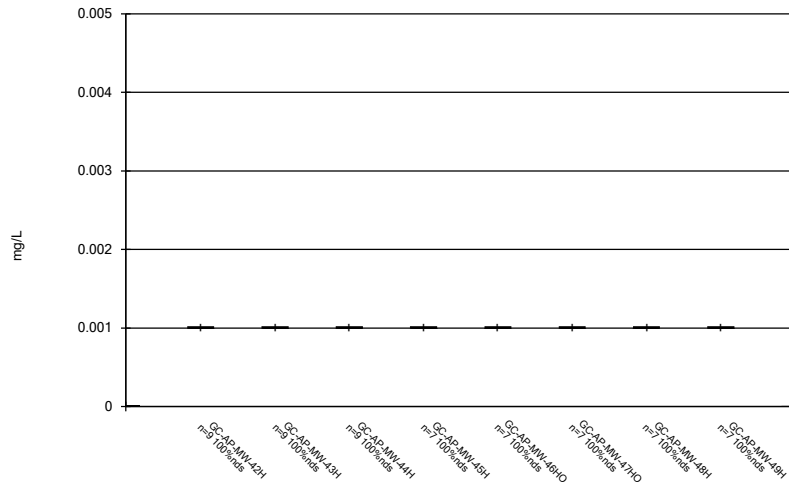
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



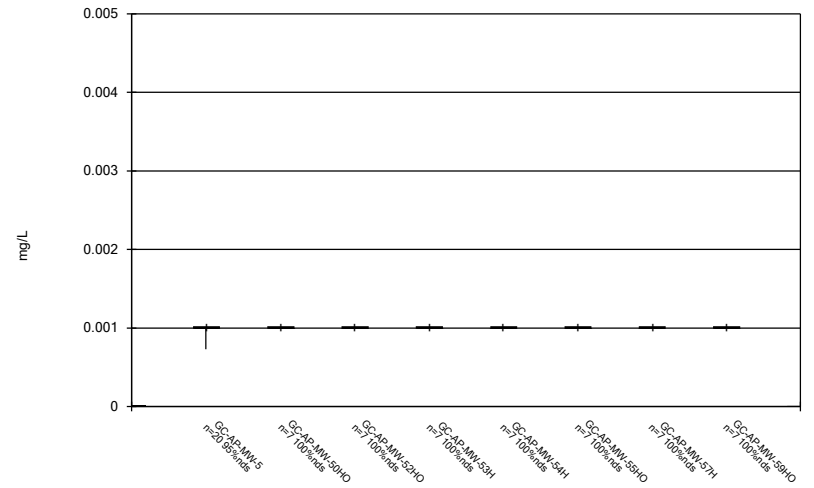
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Box & Whiskers Plot



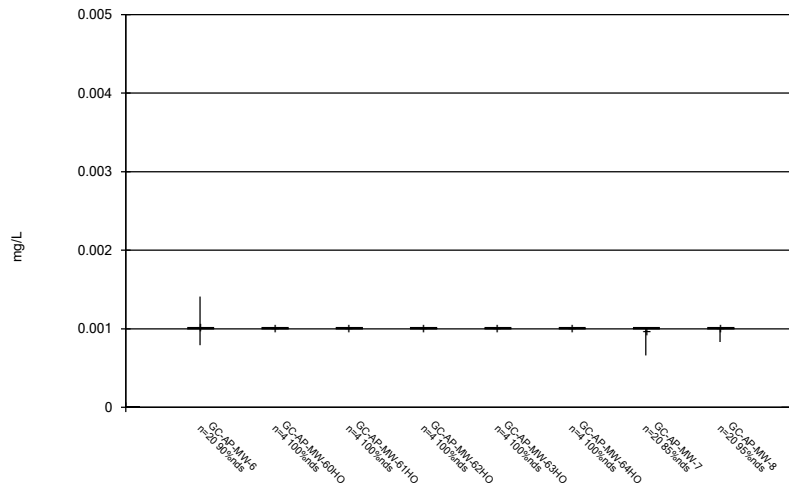
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Box & Whiskers Plot



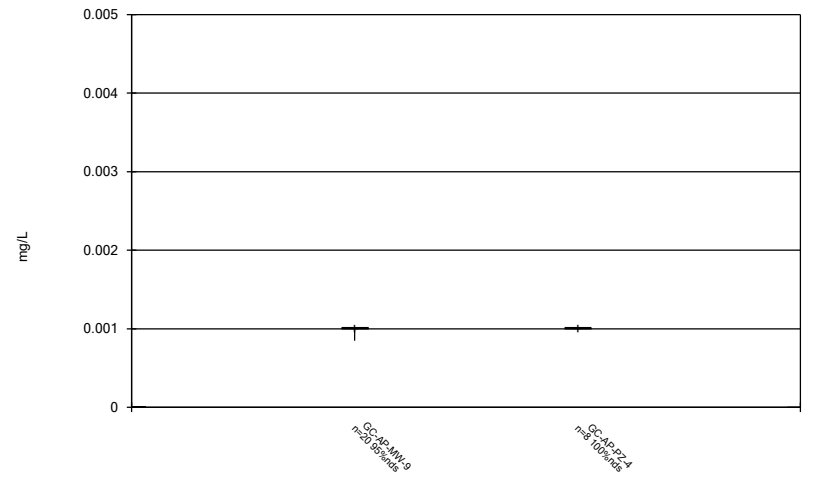
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Box & Whiskers Plot



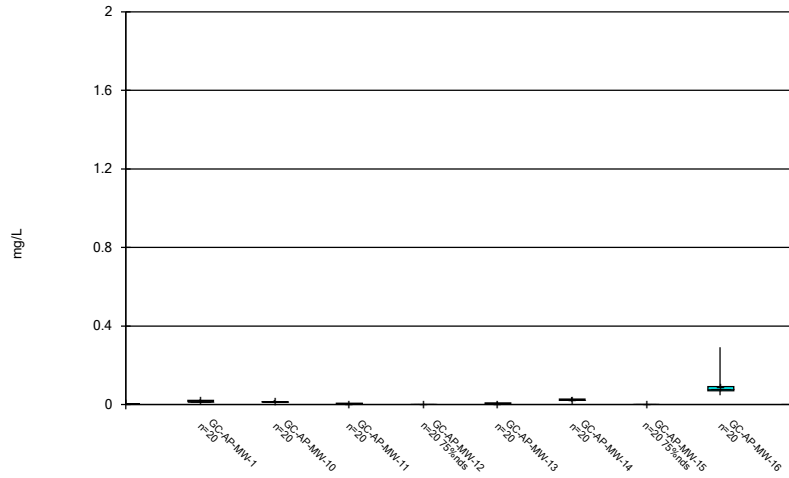
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Box & Whiskers Plot



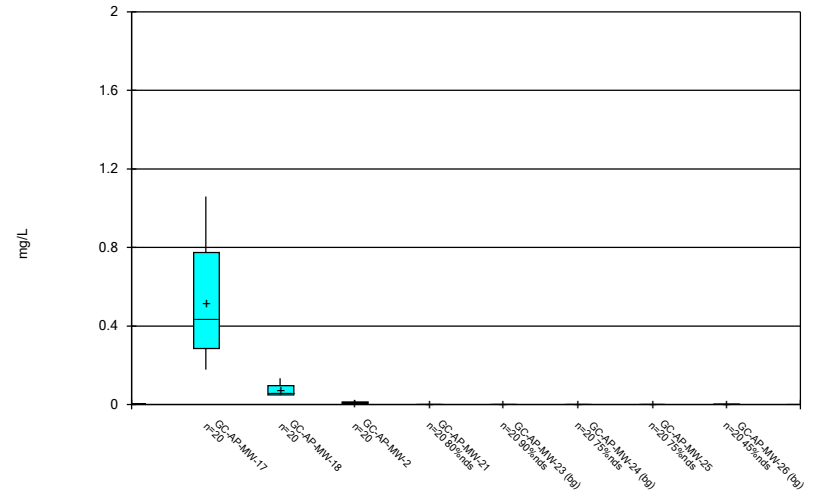
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Box & Whiskers Plot



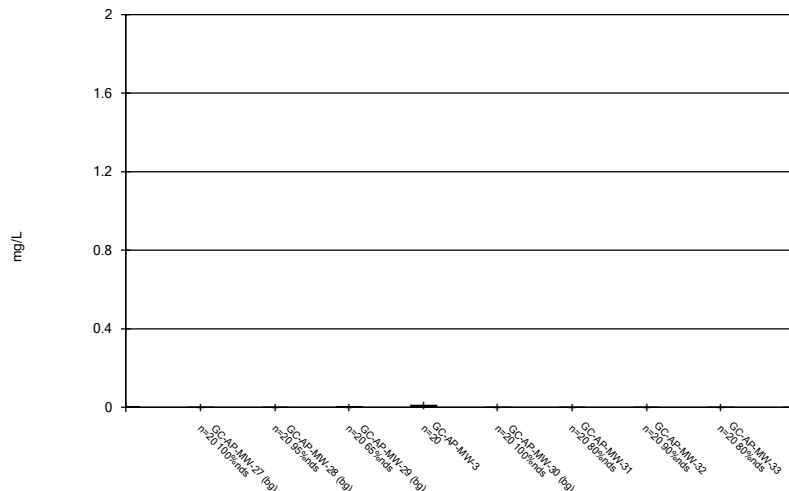
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Box & Whiskers Plot



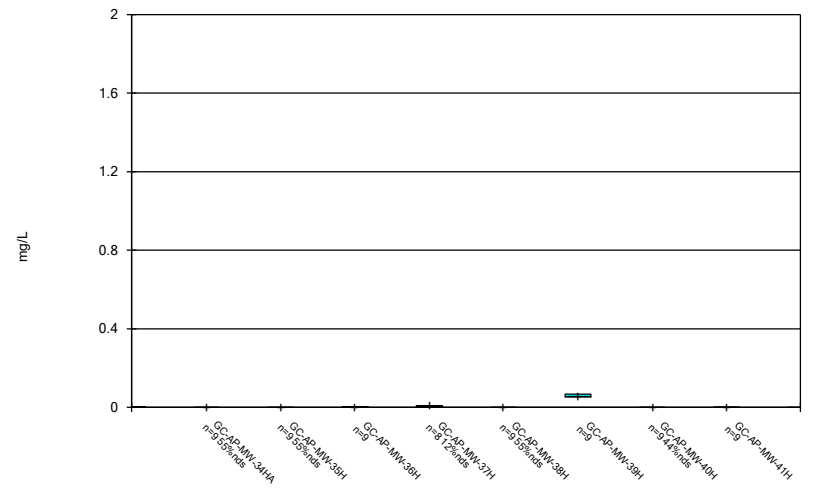
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Box & Whiskers Plot



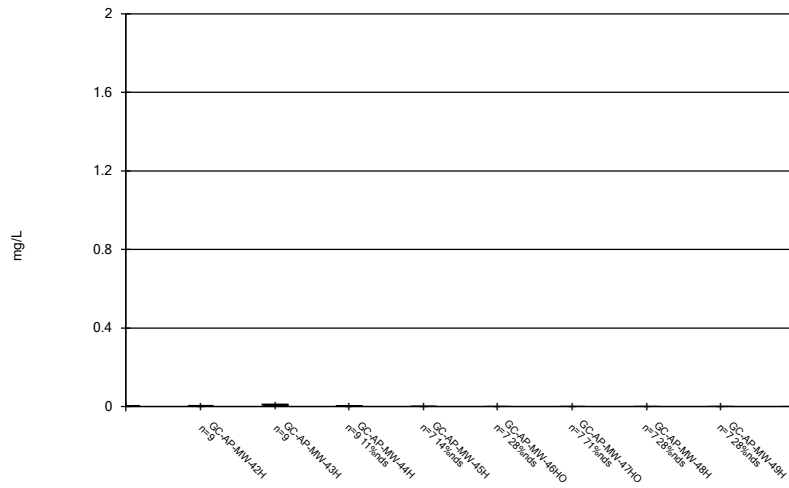
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Box & Whiskers Plot



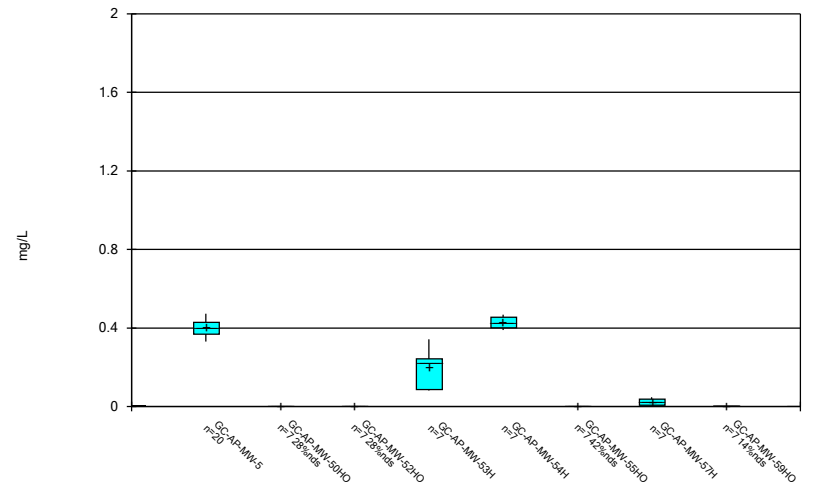
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Box & Whiskers Plot



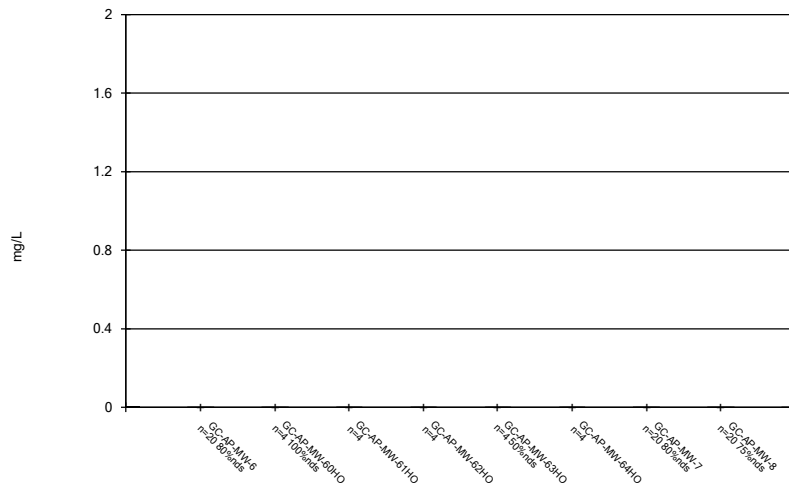
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Box & Whiskers Plot



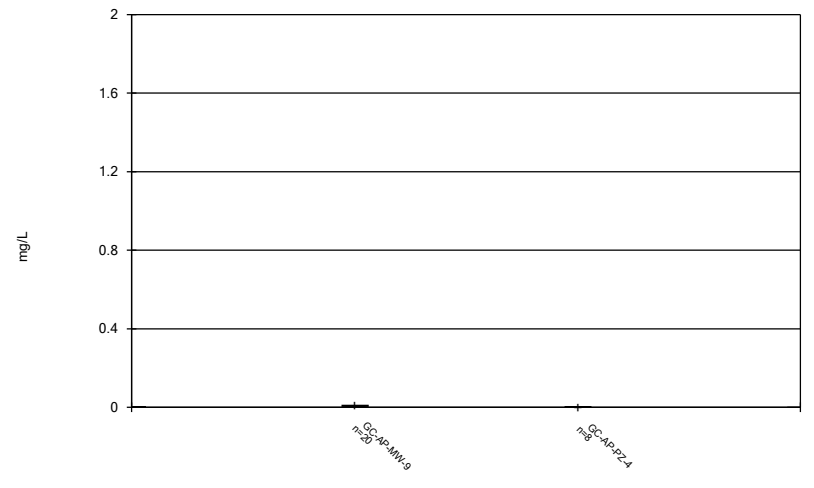
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Box & Whiskers Plot



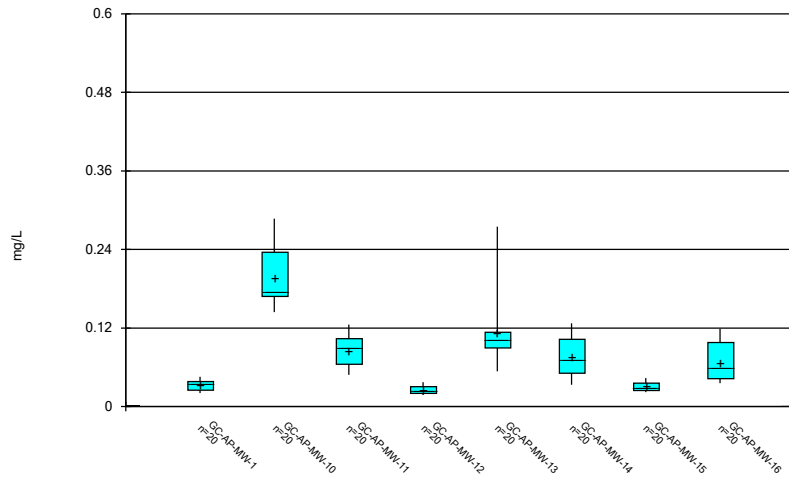
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Box & Whiskers Plot



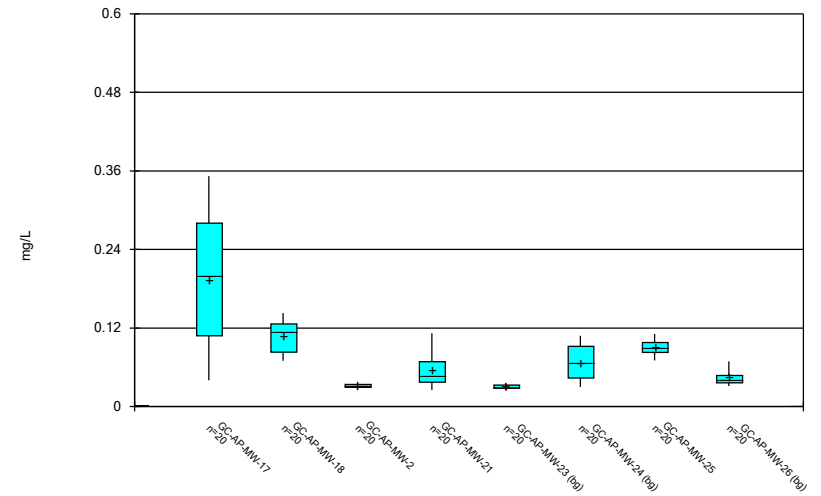
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### Box & Whiskers Plot



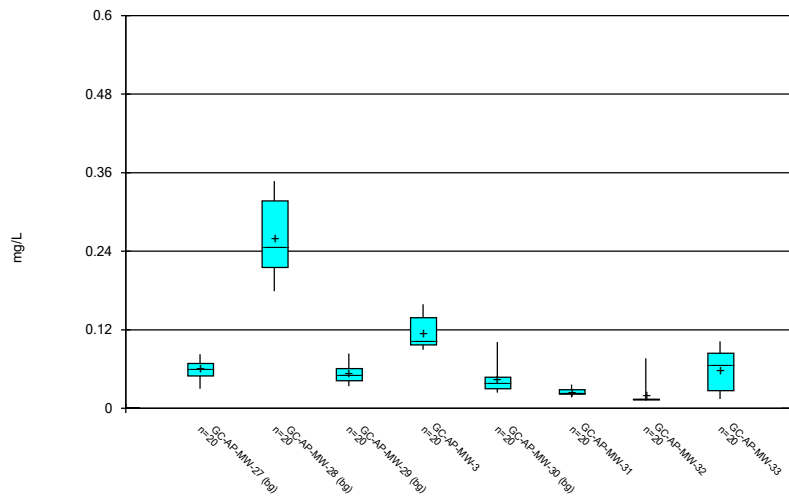
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### Box & Whiskers Plot



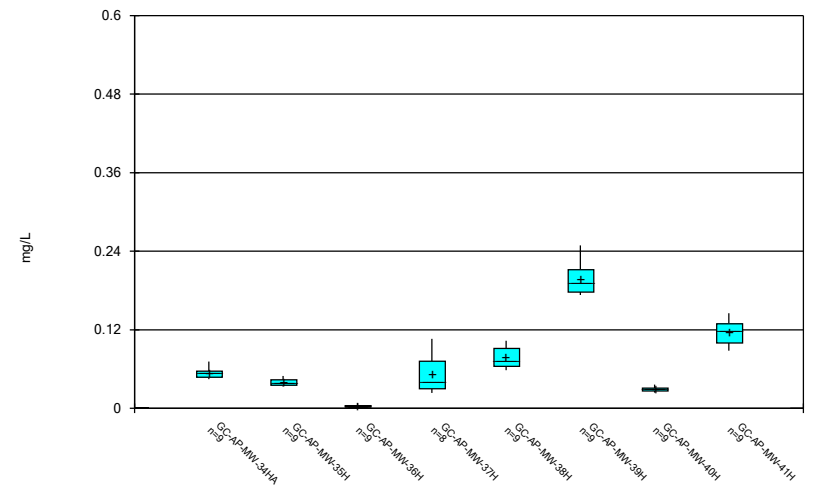
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### Box & Whiskers Plot



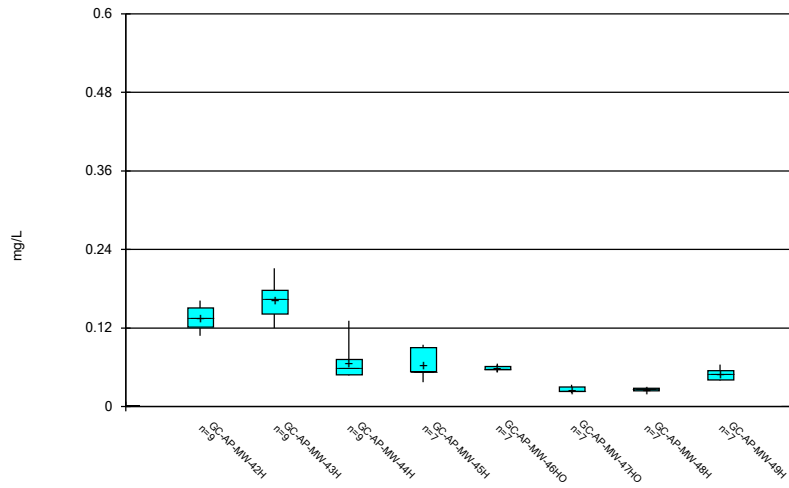
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### Box & Whiskers Plot



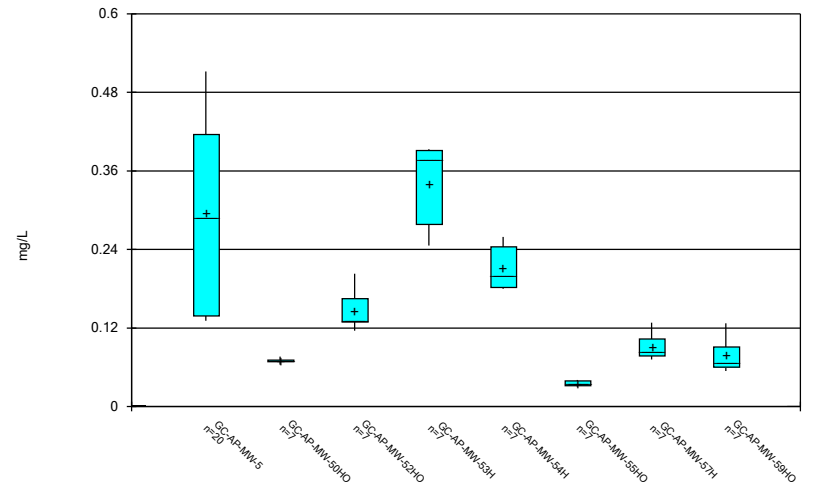
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Box & Whiskers Plot



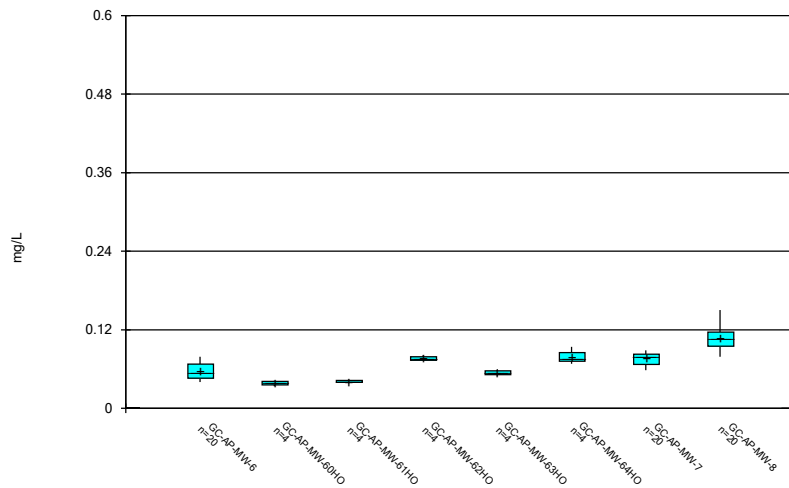
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Box & Whiskers Plot



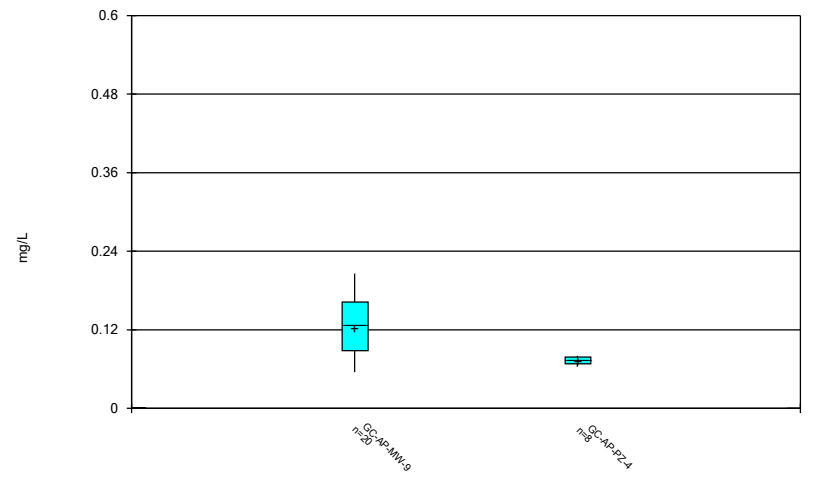
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Box & Whiskers Plot



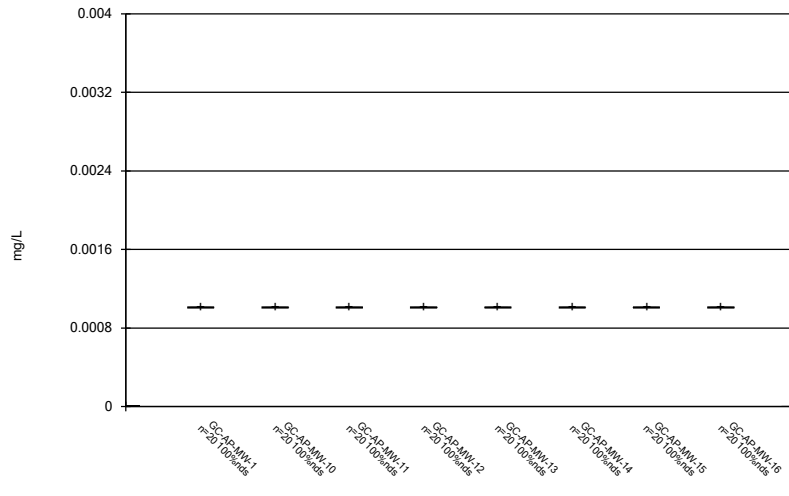
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Box & Whiskers Plot



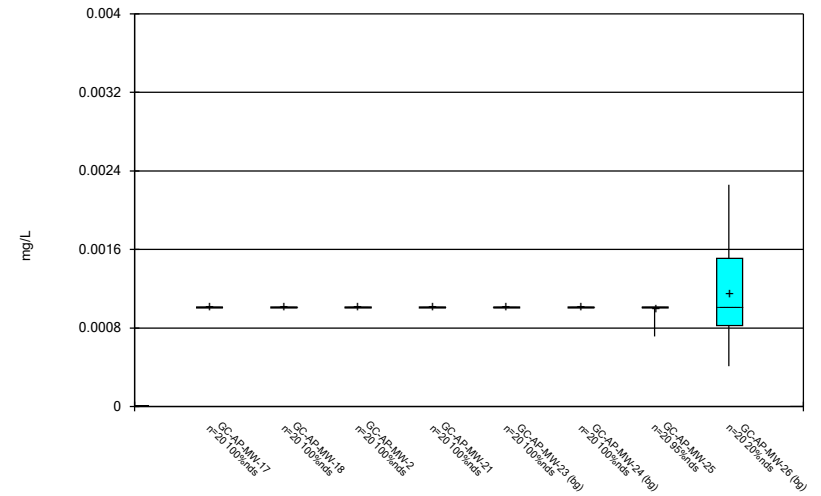
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Box & Whiskers Plot



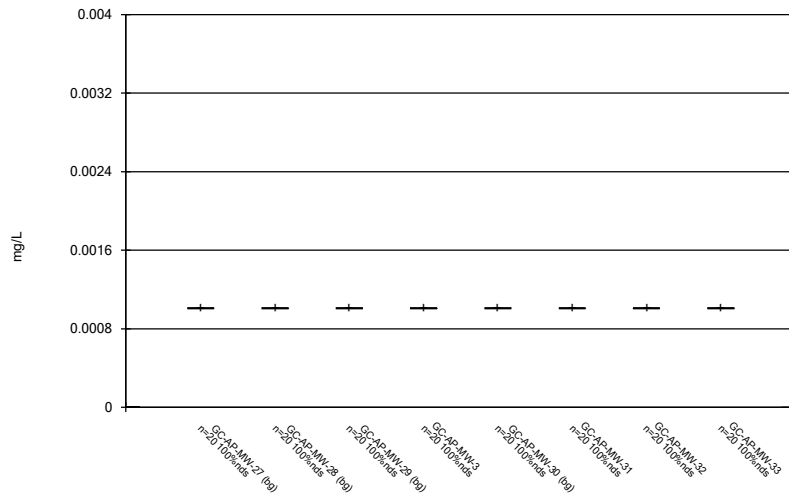
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Box & Whiskers Plot



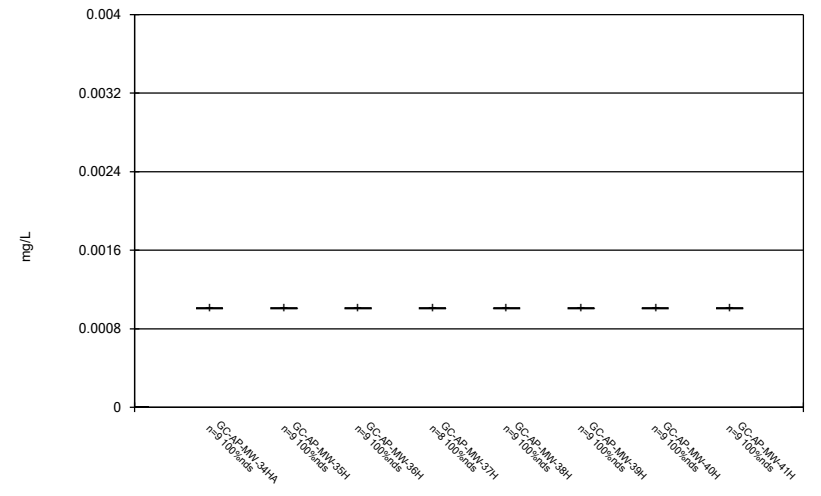
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Box & Whiskers Plot



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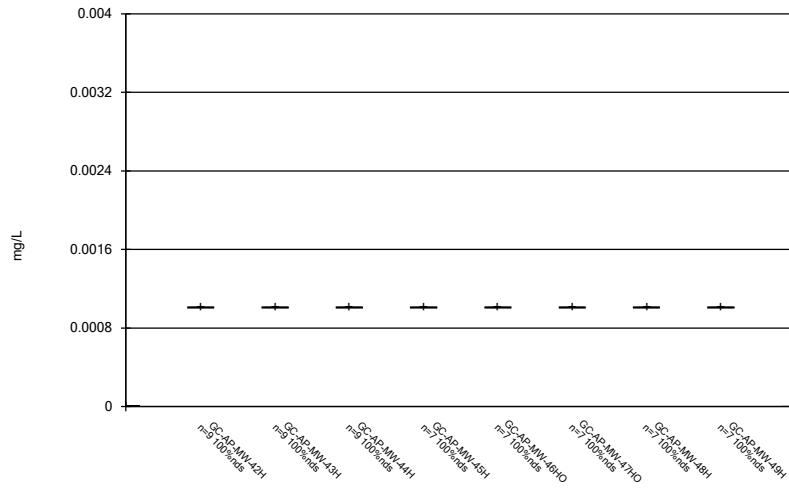
Box & Whiskers Plot



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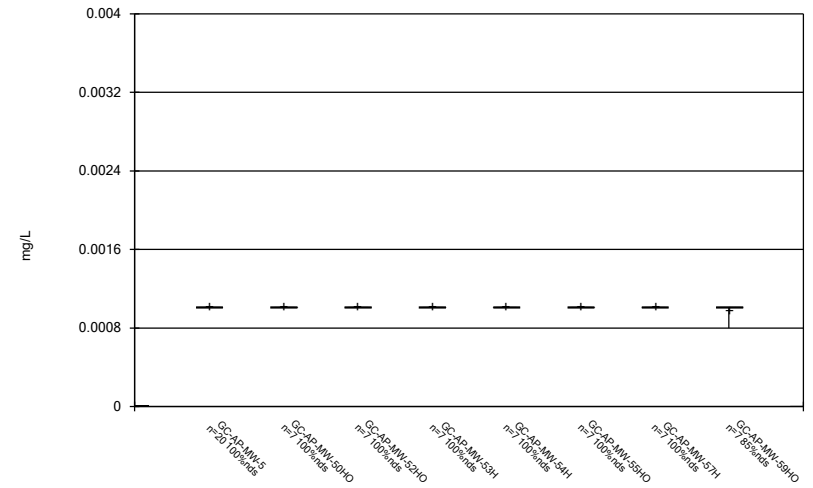


Box & Whiskers Plot



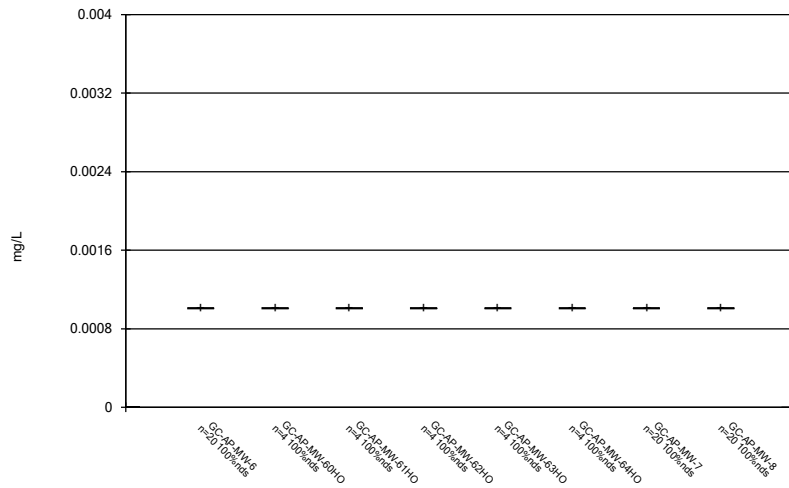
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Box & Whiskers Plot



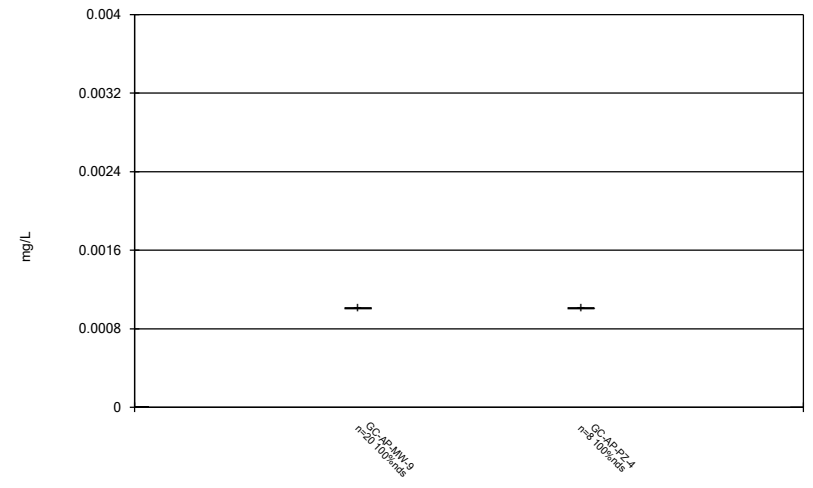
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Box & Whiskers Plot



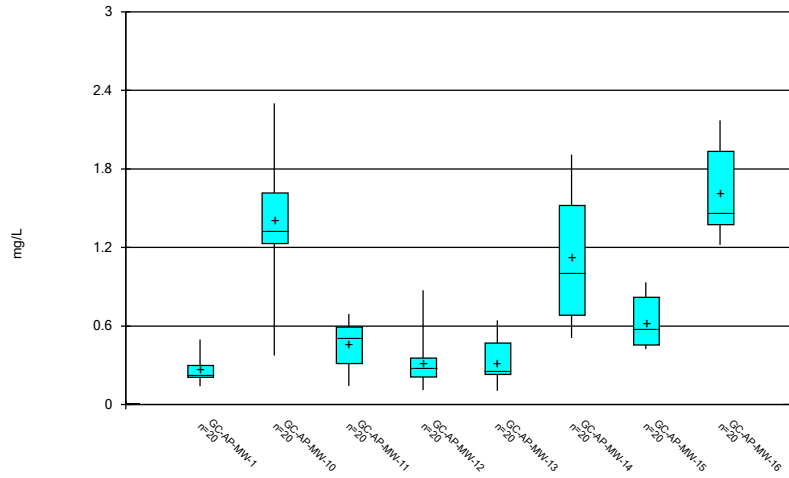
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Box & Whiskers Plot



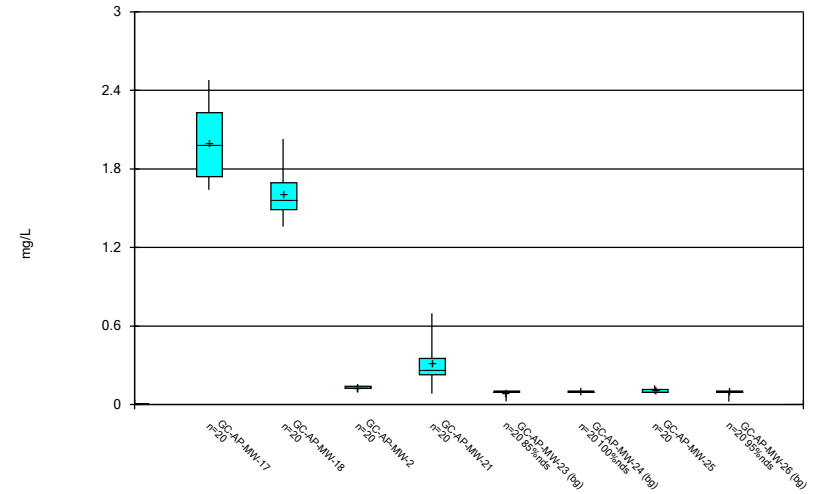
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Box & Whiskers Plot



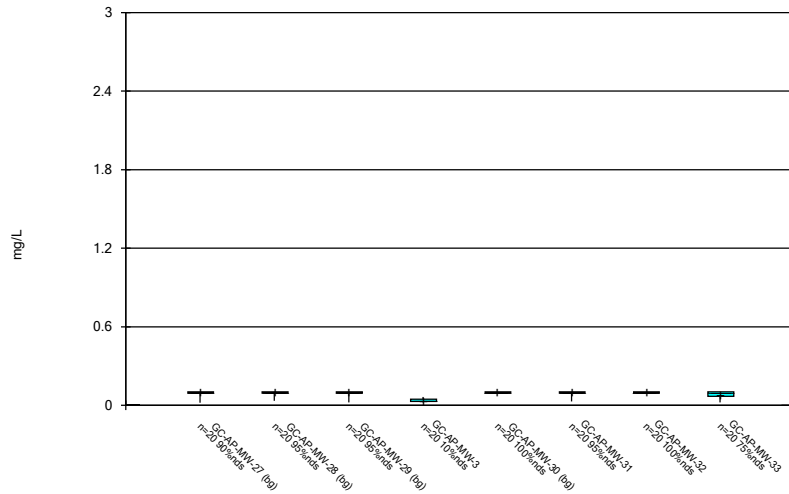
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Box & Whiskers Plot



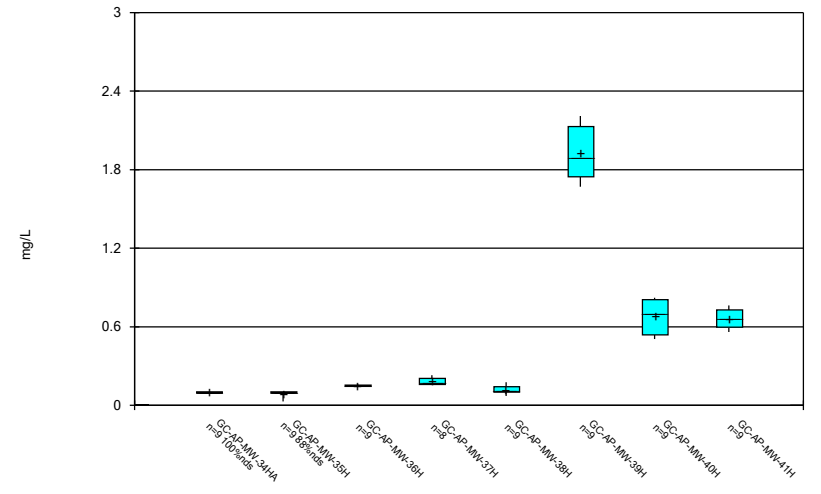
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Box & Whiskers Plot



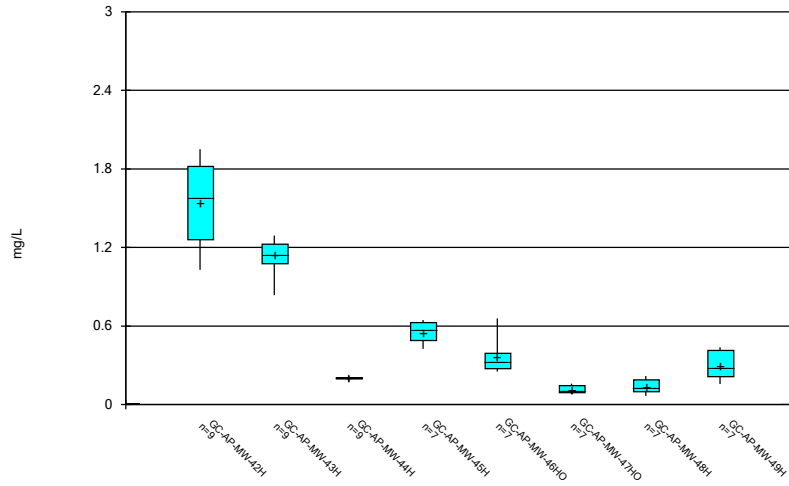
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Box & Whiskers Plot



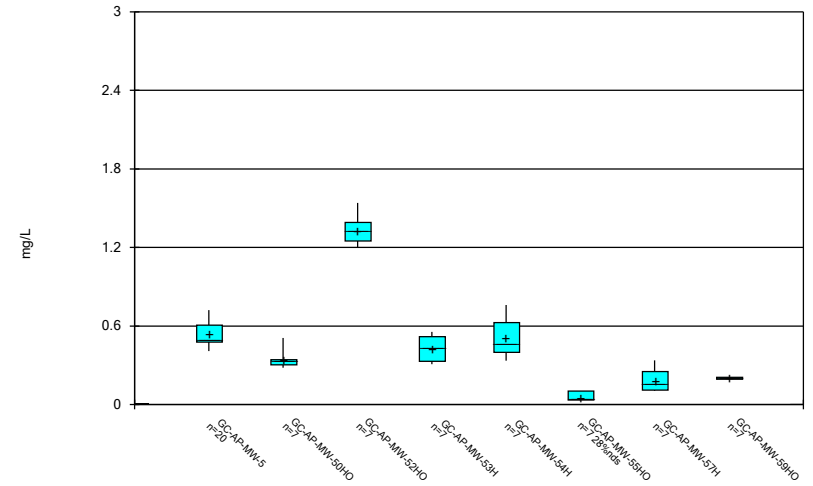
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Box & Whiskers Plot



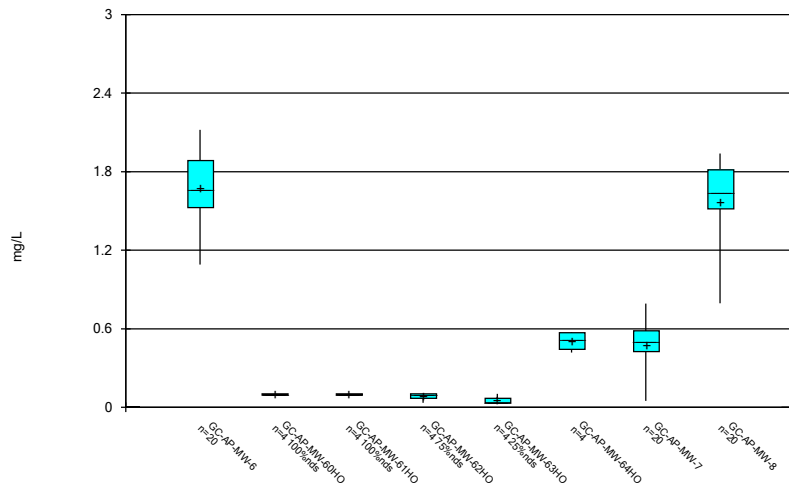
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Box & Whiskers Plot



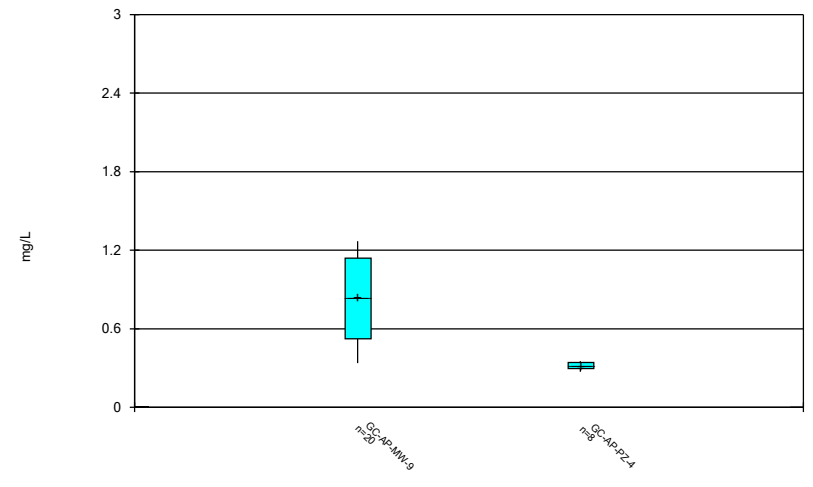
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Box & Whiskers Plot



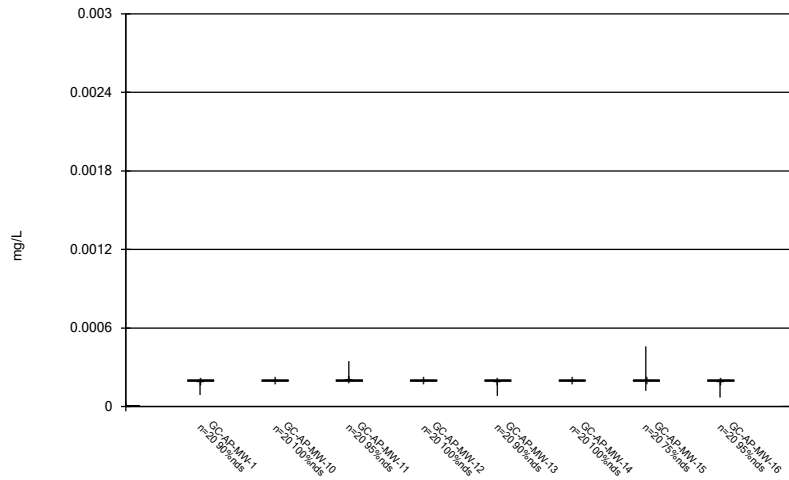
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Box & Whiskers Plot



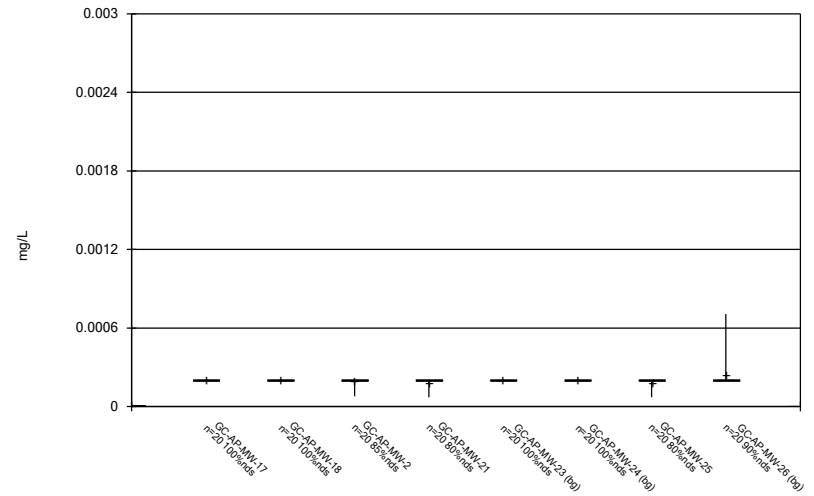
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Box & Whiskers Plot



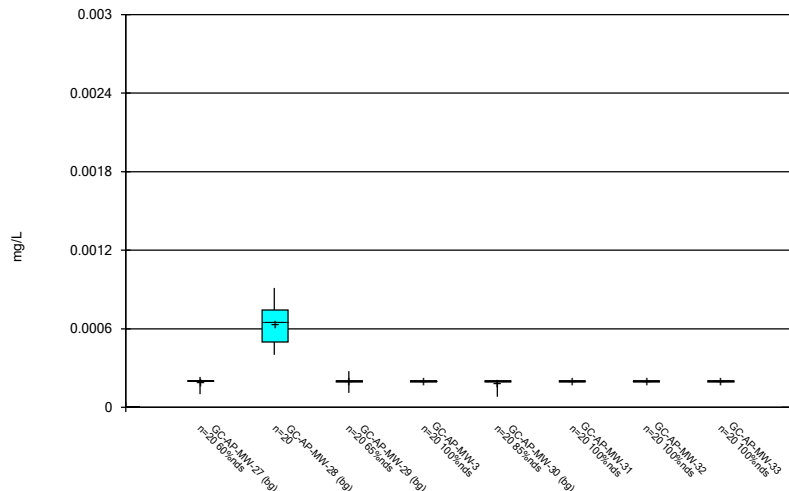
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Box & Whiskers Plot



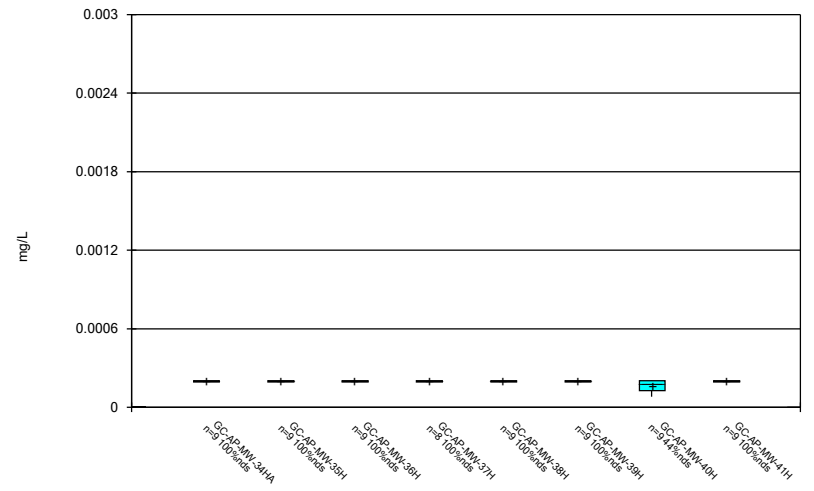
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Box & Whiskers Plot



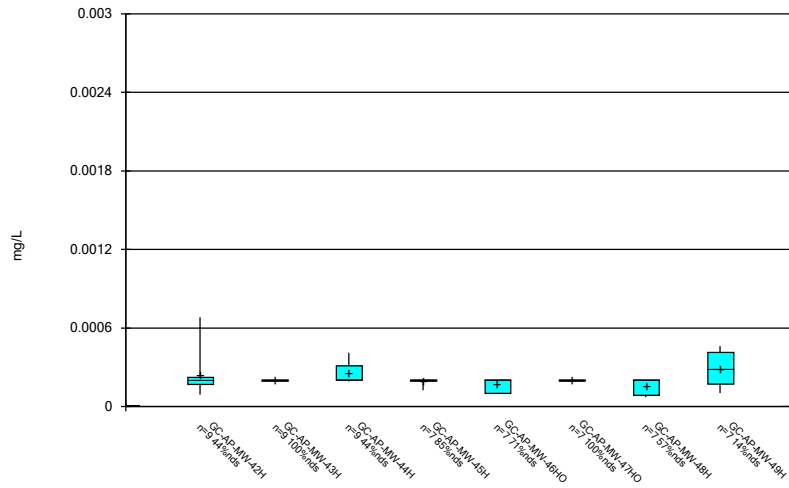
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Box & Whiskers Plot



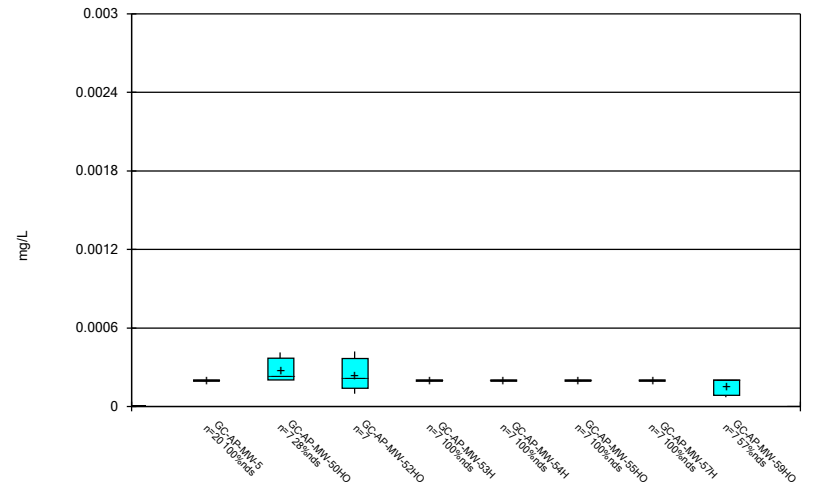
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Box & Whiskers Plot



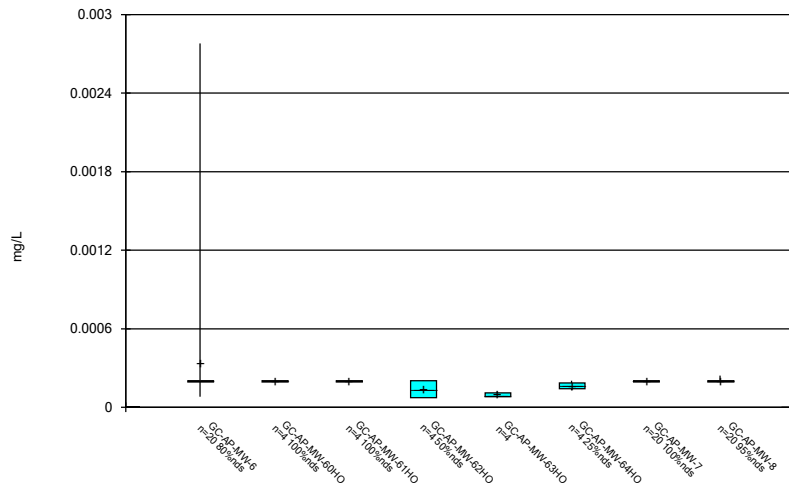
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Box & Whiskers Plot



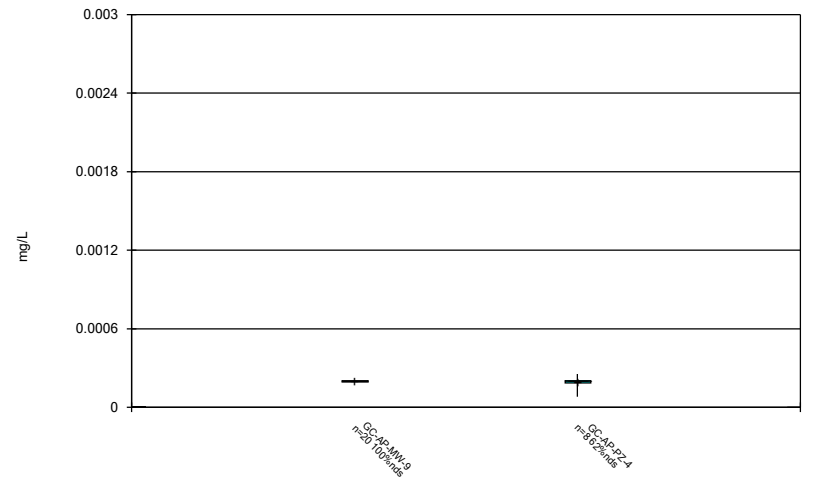
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Box & Whiskers Plot



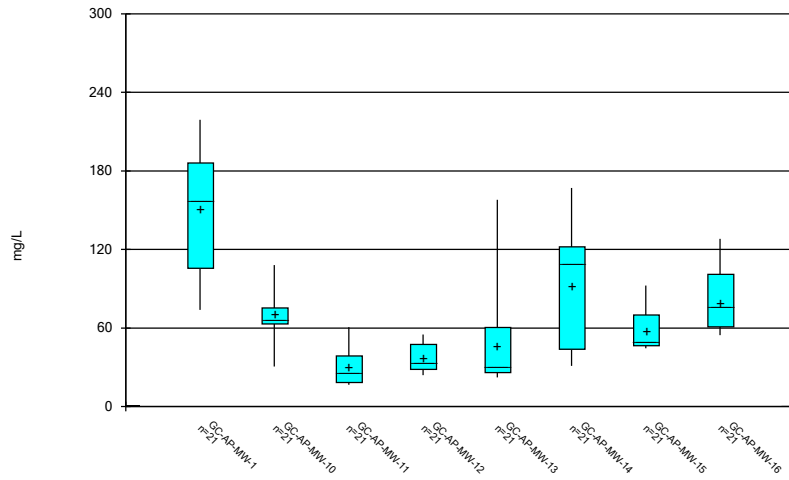
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Box & Whiskers Plot



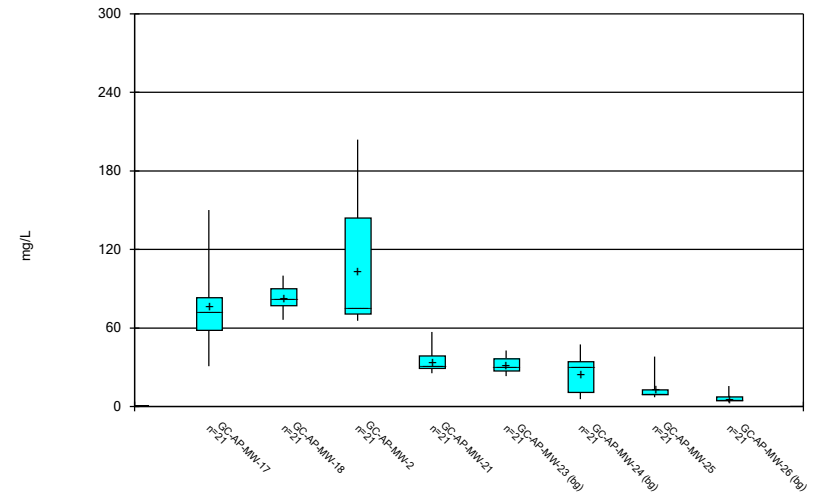
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Box & Whiskers Plot



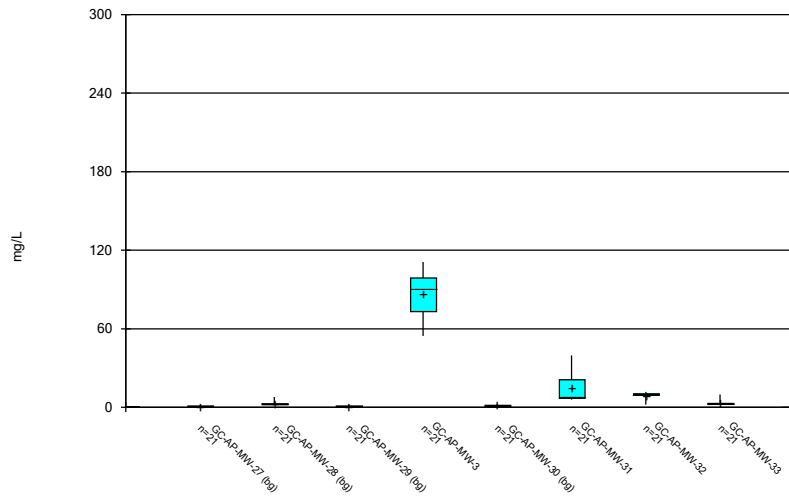
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Box & Whiskers Plot



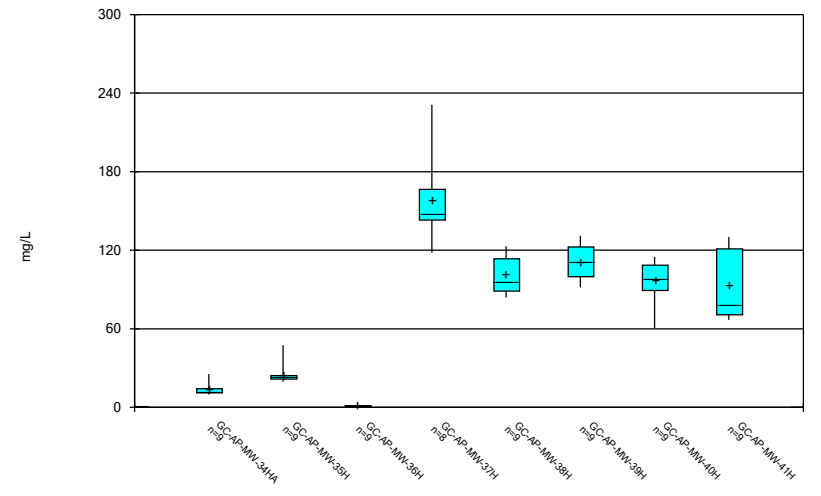
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Box & Whiskers Plot



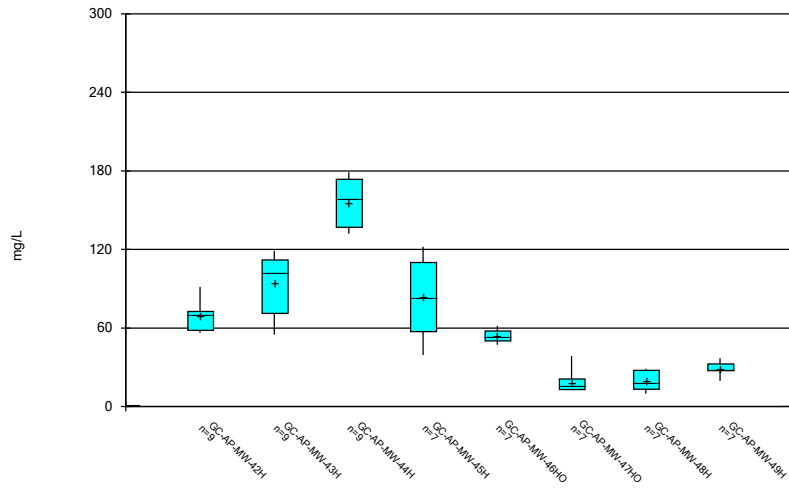
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Box & Whiskers Plot



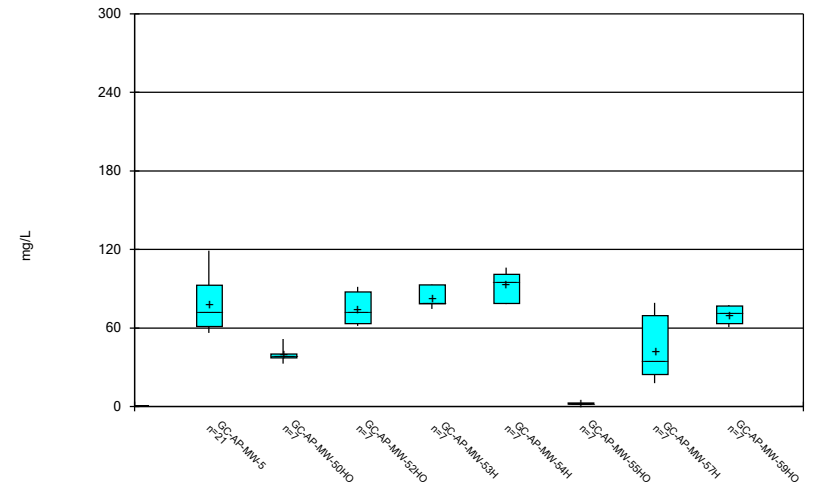
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Box & Whiskers Plot



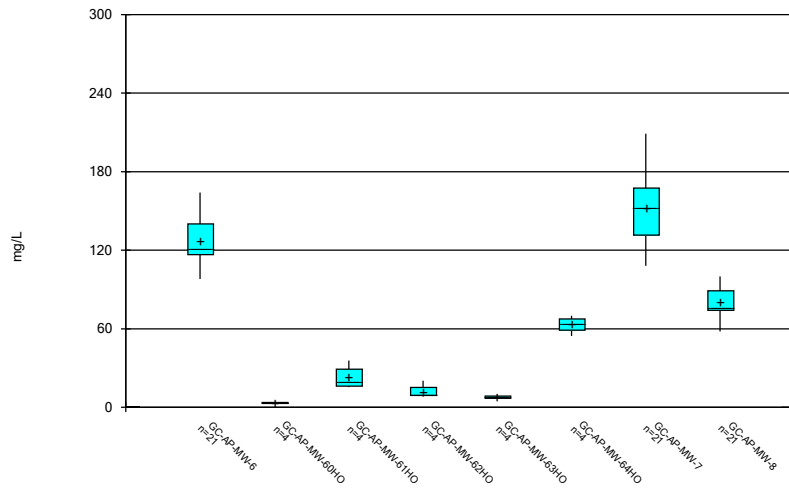
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Box & Whiskers Plot



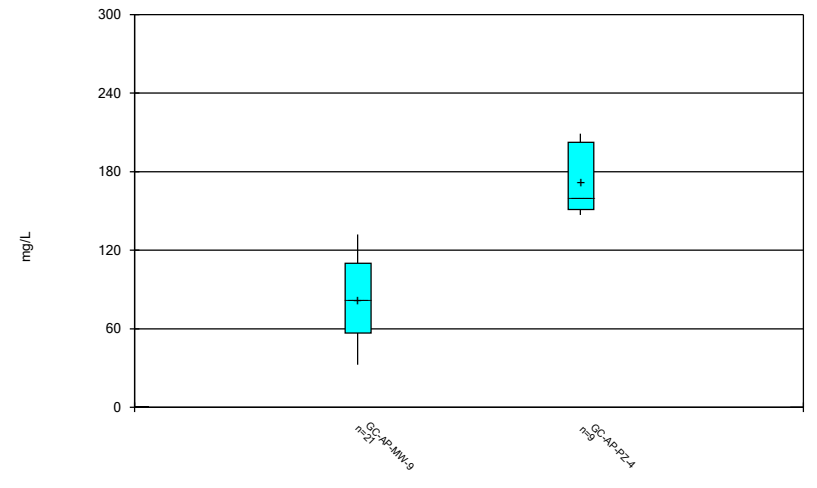
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Box & Whiskers Plot



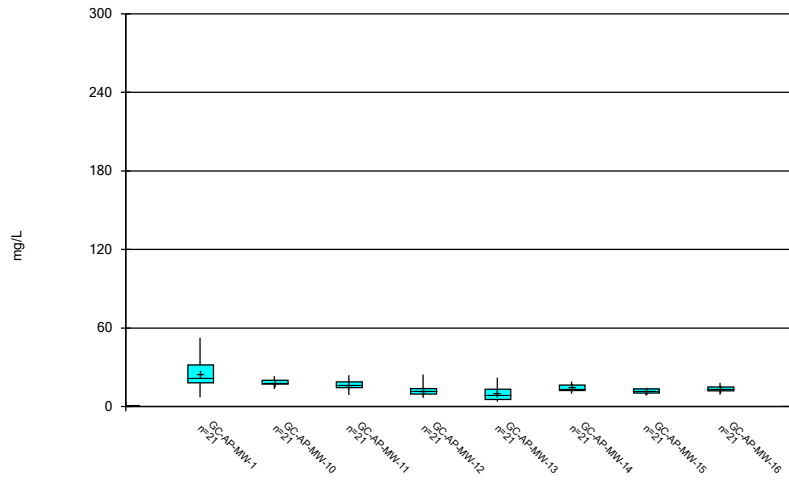
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Box & Whiskers Plot



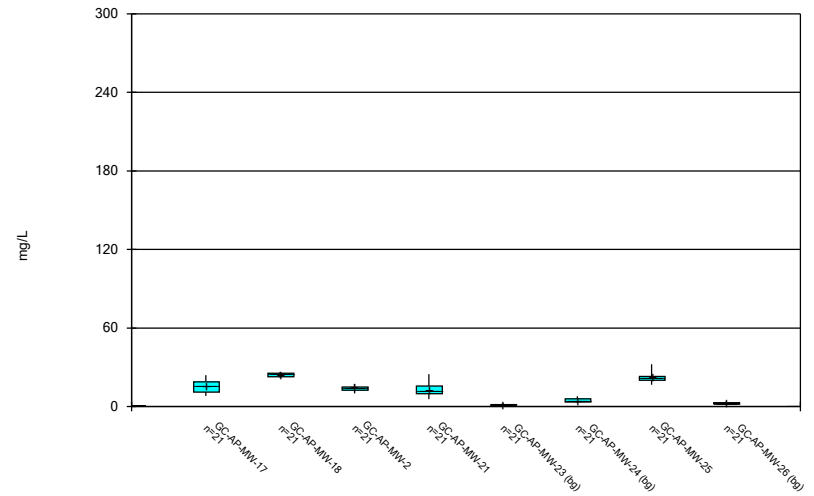
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Box & Whiskers Plot



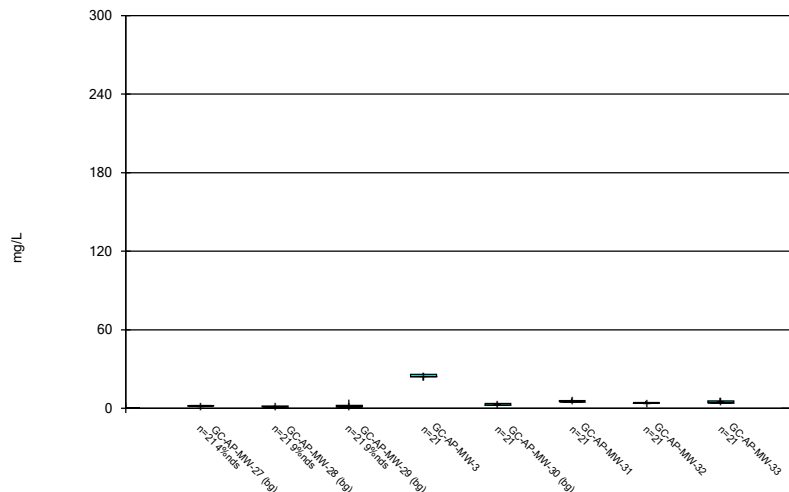
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



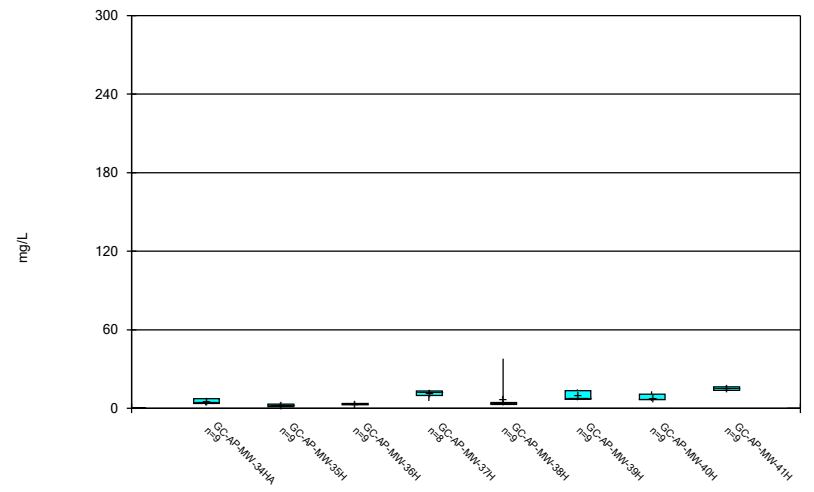
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Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



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Plant Greene County Client: Southern Company Data: Greene County AP

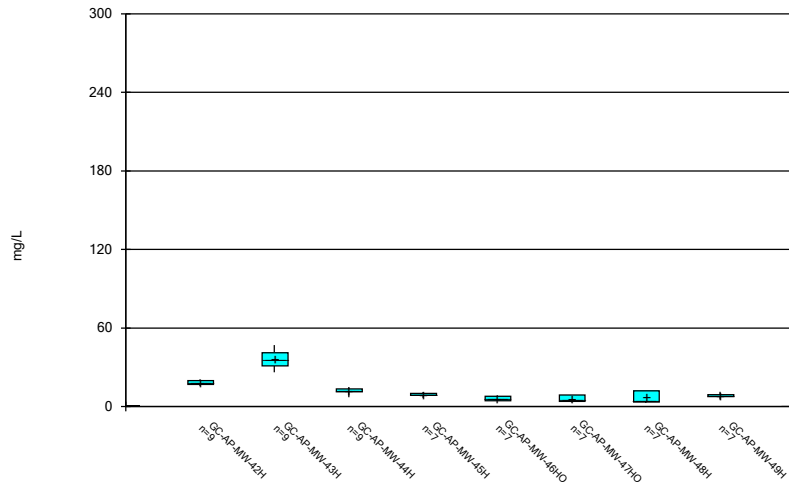
Box & Whiskers Plot



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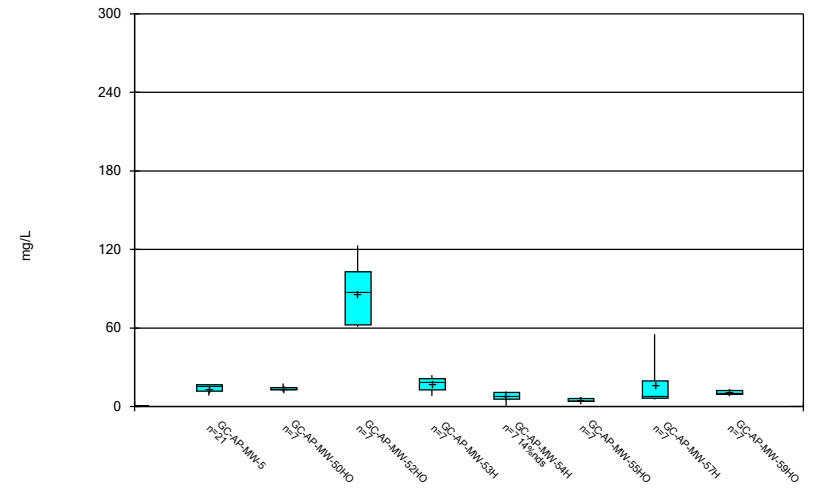


Box & Whiskers Plot



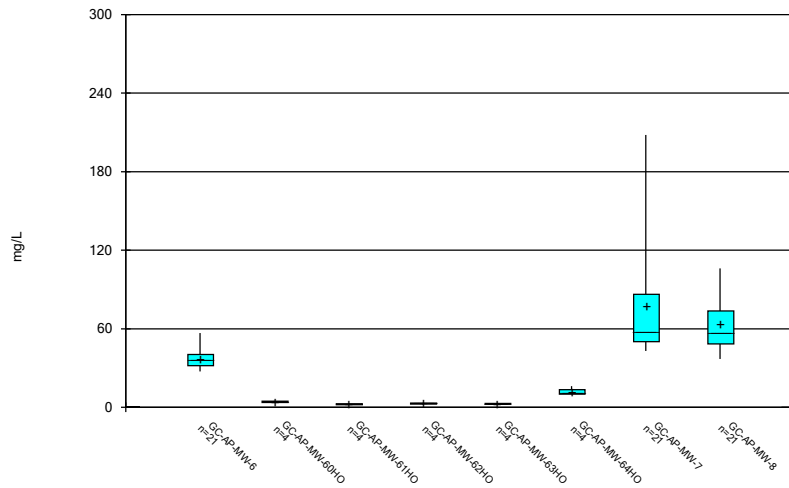
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Box & Whiskers Plot



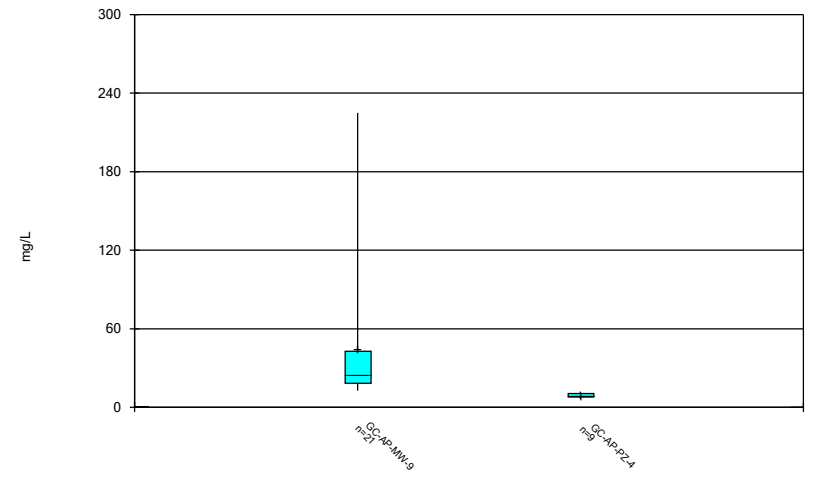
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Box & Whiskers Plot



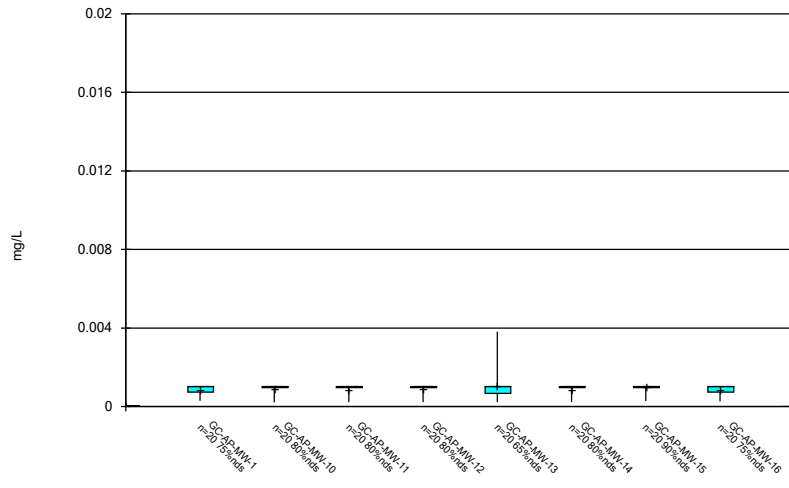
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Box & Whiskers Plot



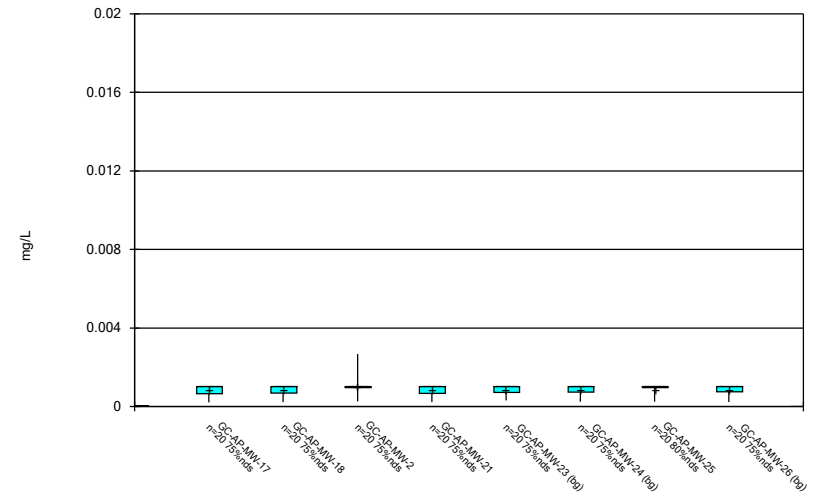
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### Box & Whiskers Plot



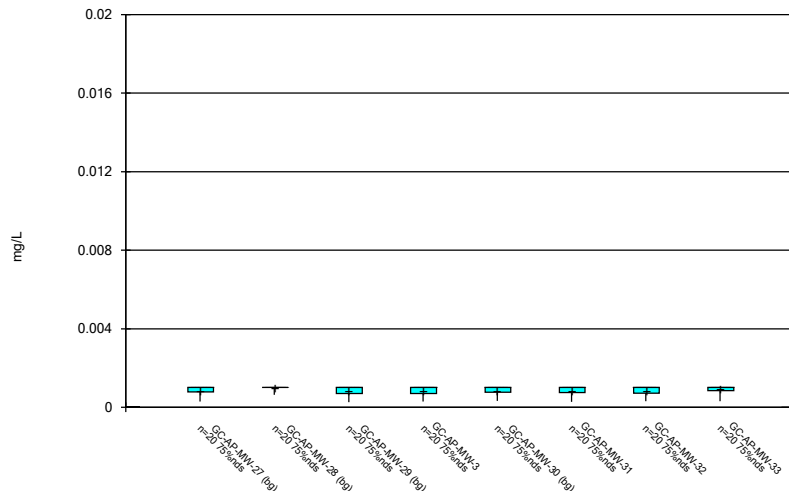
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### Box & Whiskers Plot



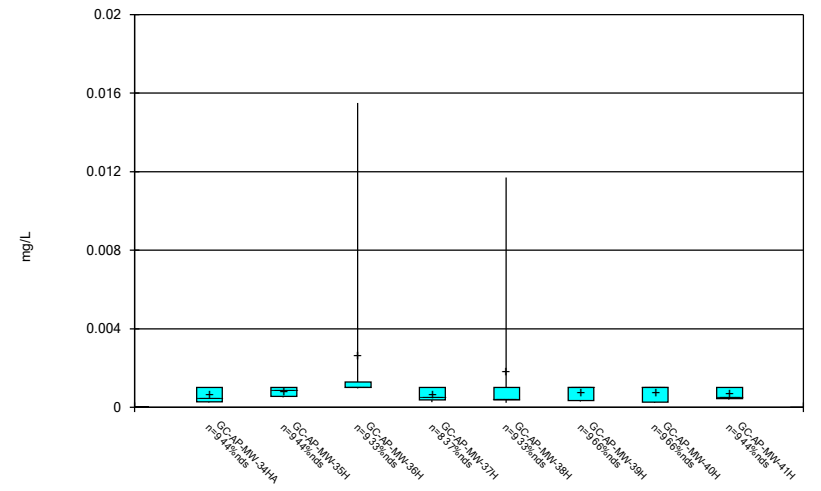
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### Box & Whiskers Plot



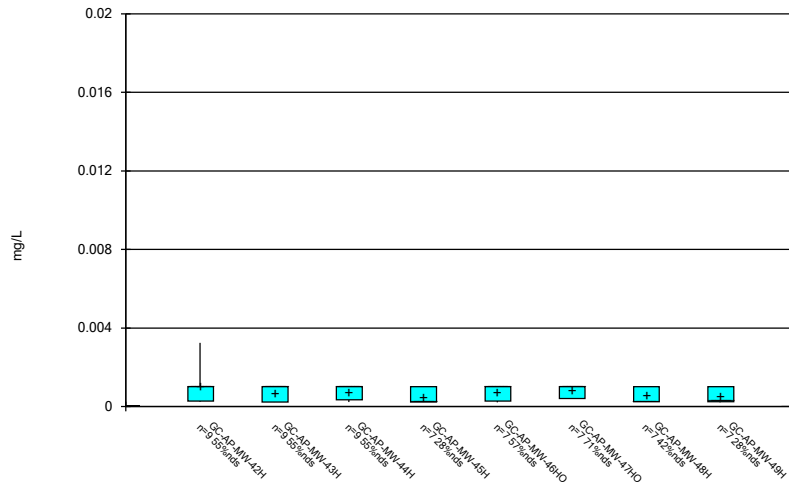
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### Box & Whiskers Plot



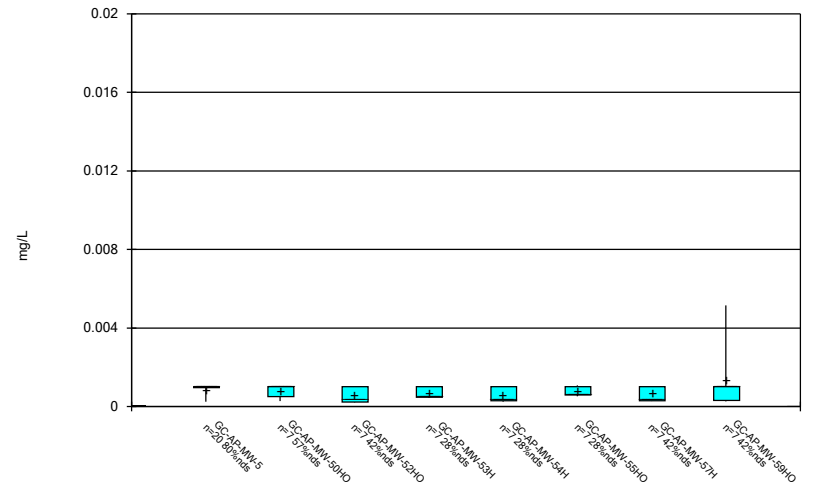
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Box & Whiskers Plot



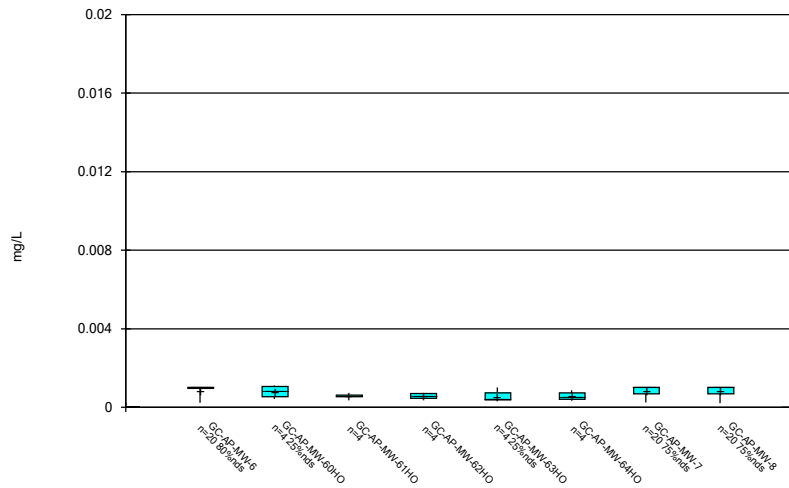
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Box & Whiskers Plot



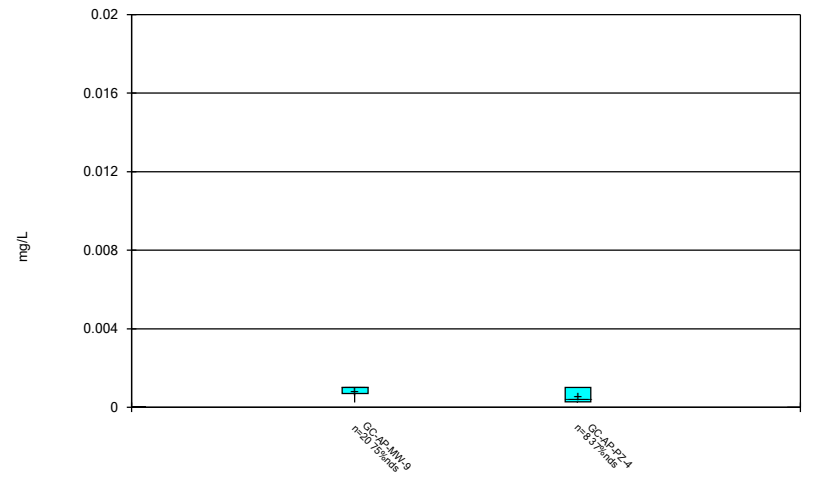
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Box & Whiskers Plot



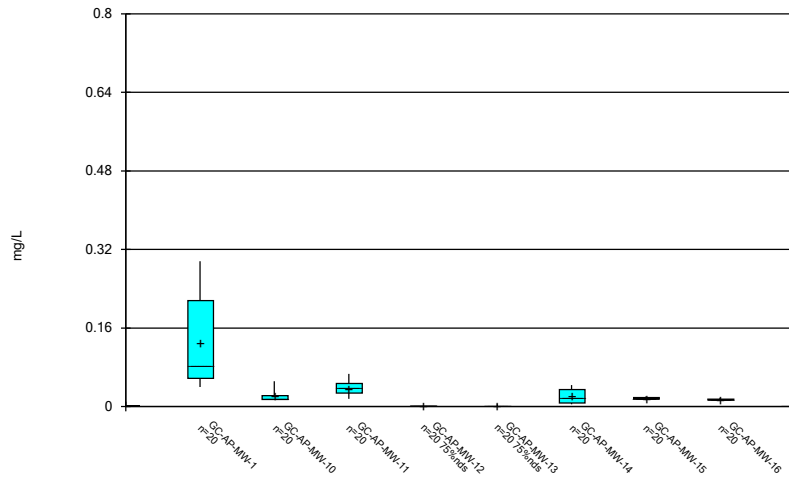
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Box & Whiskers Plot



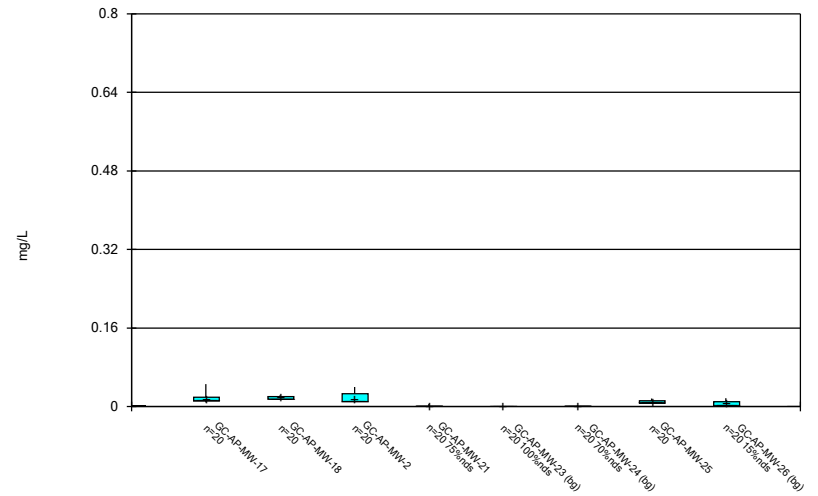
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### Box & Whiskers Plot



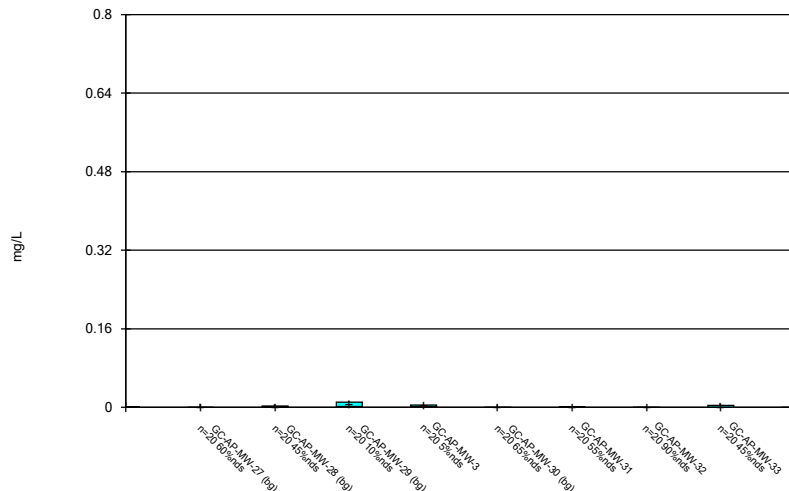
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### Box & Whiskers Plot



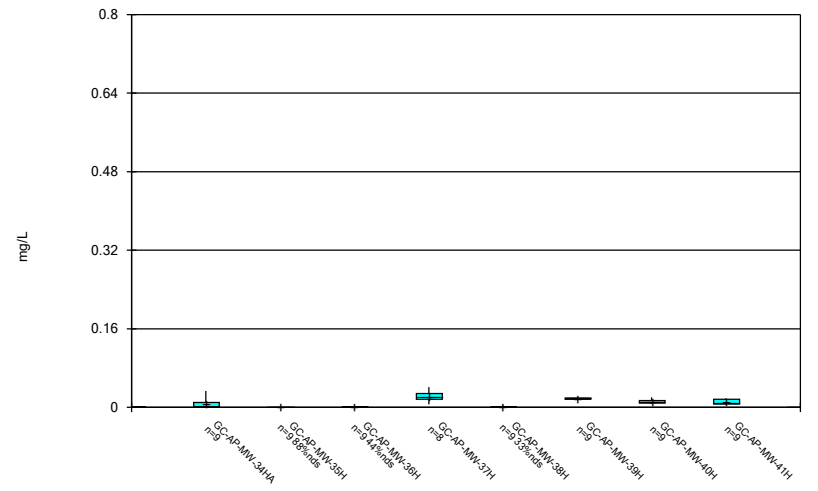
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### Box & Whiskers Plot



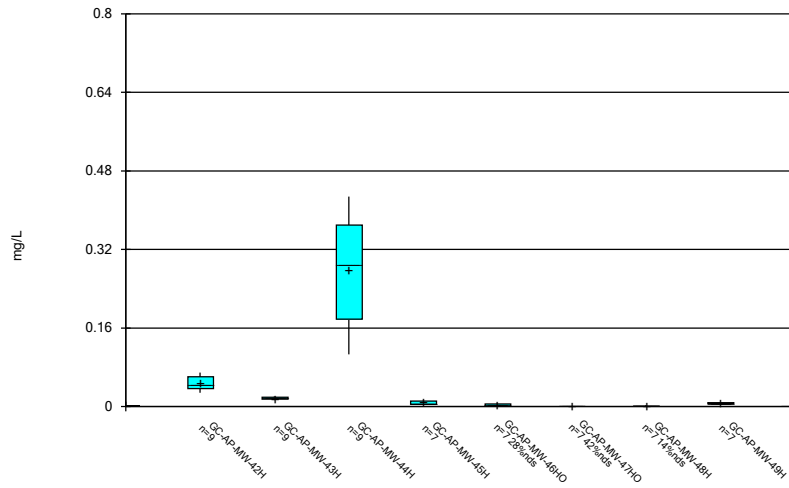
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### Box & Whiskers Plot



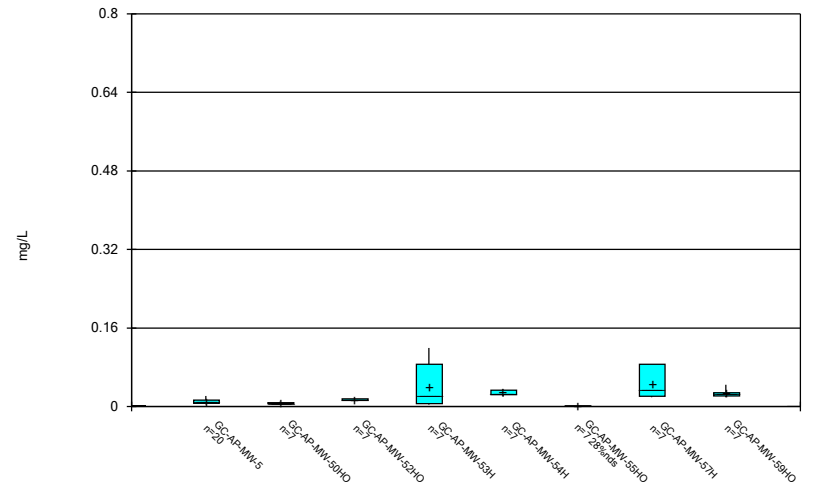
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Box & Whiskers Plot



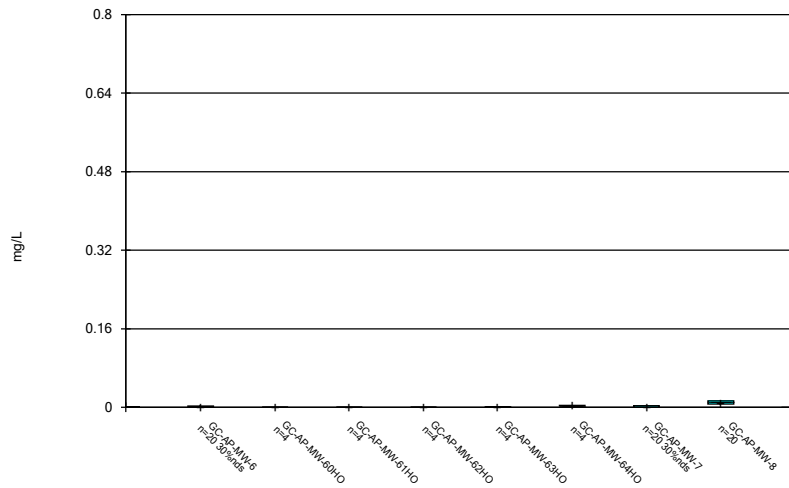
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Box & Whiskers Plot



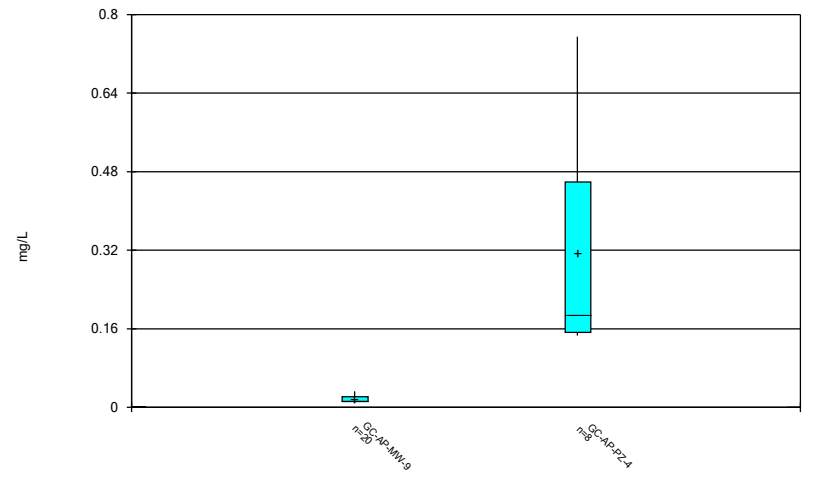
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Box & Whiskers Plot



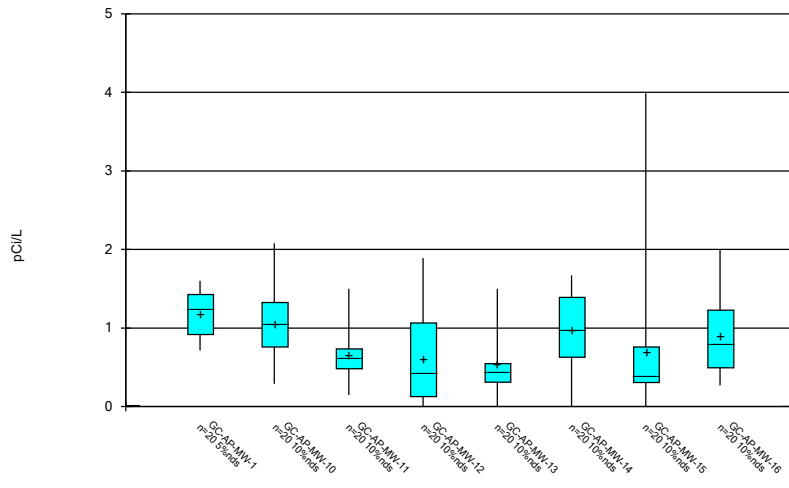
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Box & Whiskers Plot



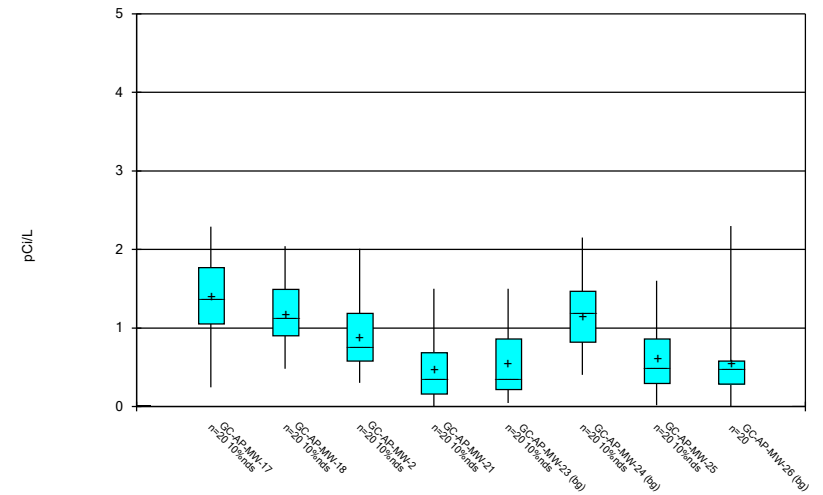
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### Box & Whiskers Plot



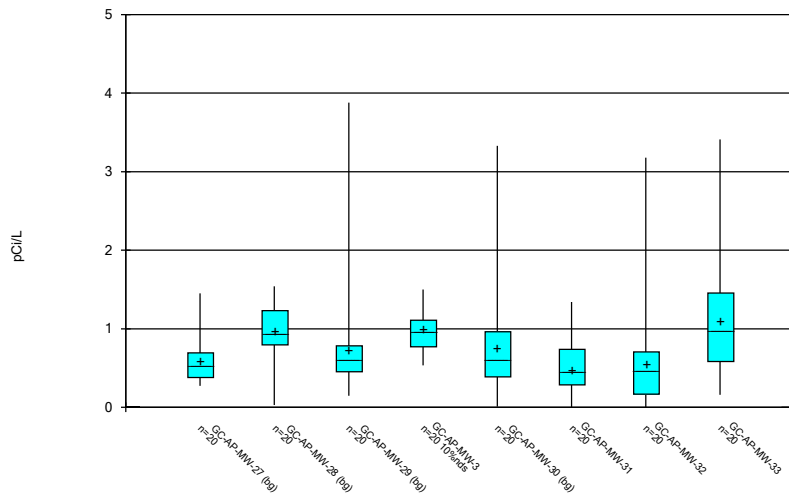
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### Box & Whiskers Plot



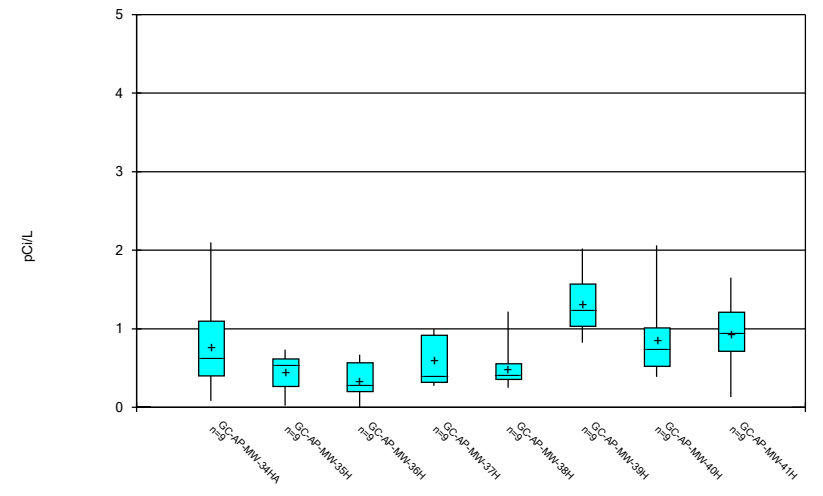
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### Box & Whiskers Plot



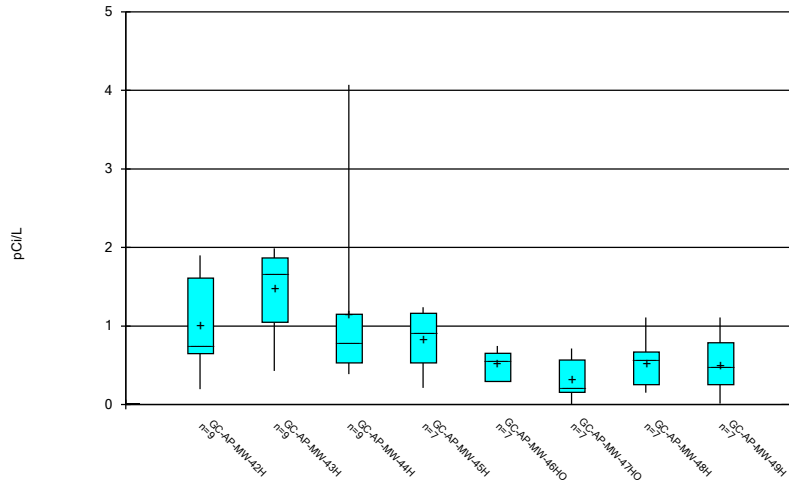
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### Box & Whiskers Plot



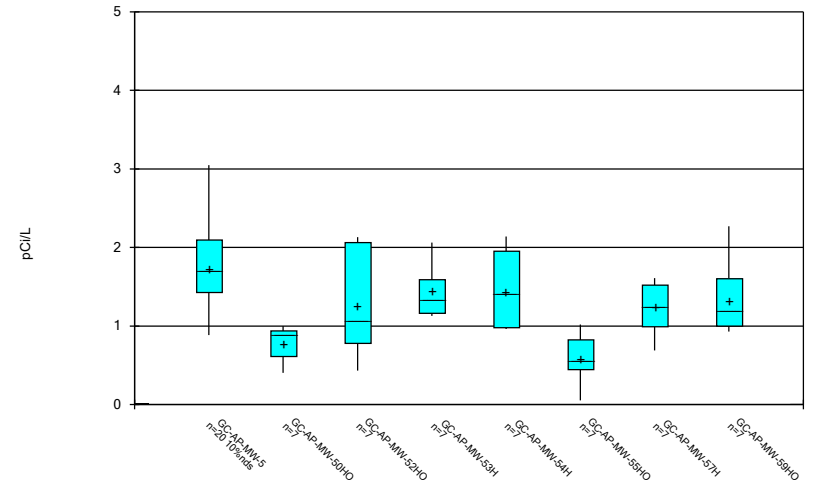
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Box & Whiskers Plot



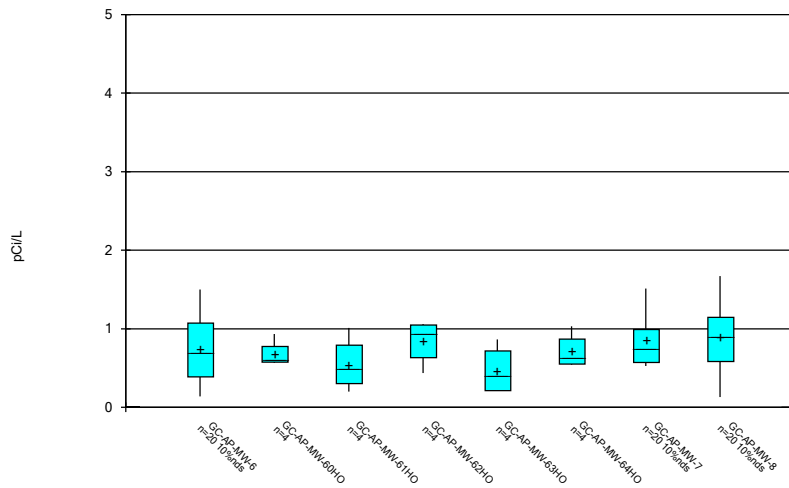
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Box & Whiskers Plot



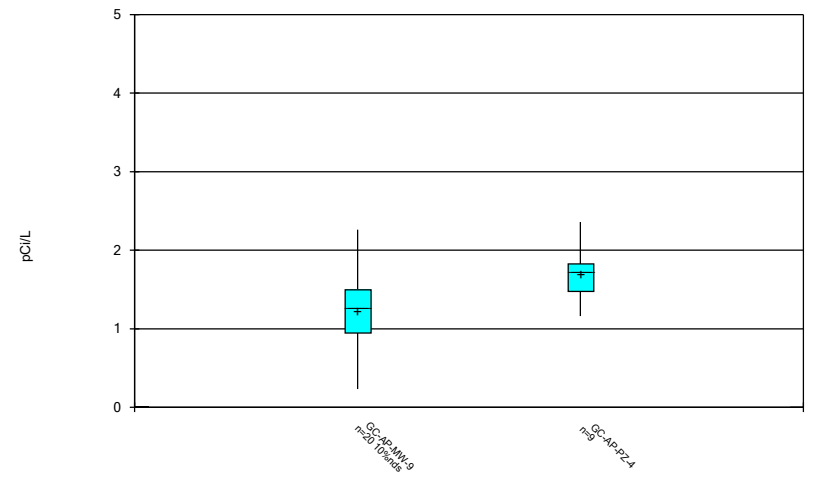
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Box & Whiskers Plot



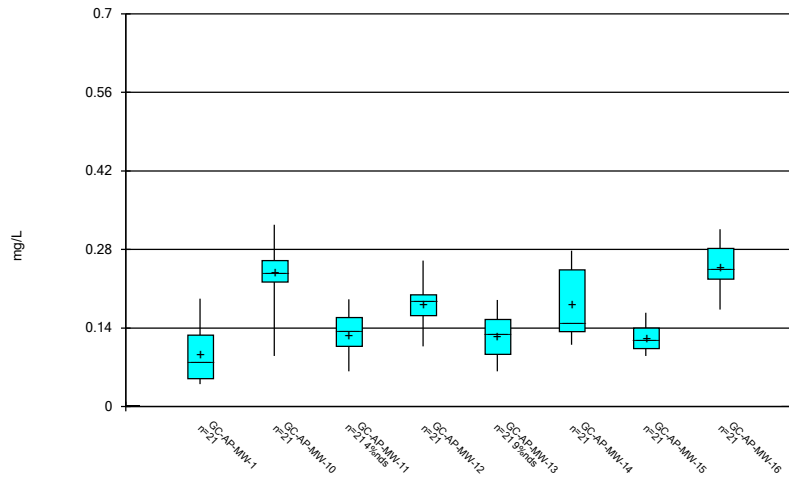
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Box & Whiskers Plot



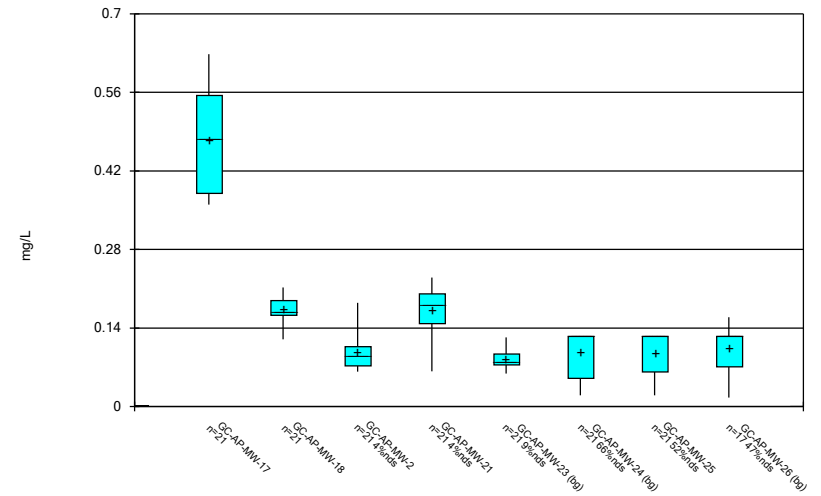
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### Box & Whiskers Plot



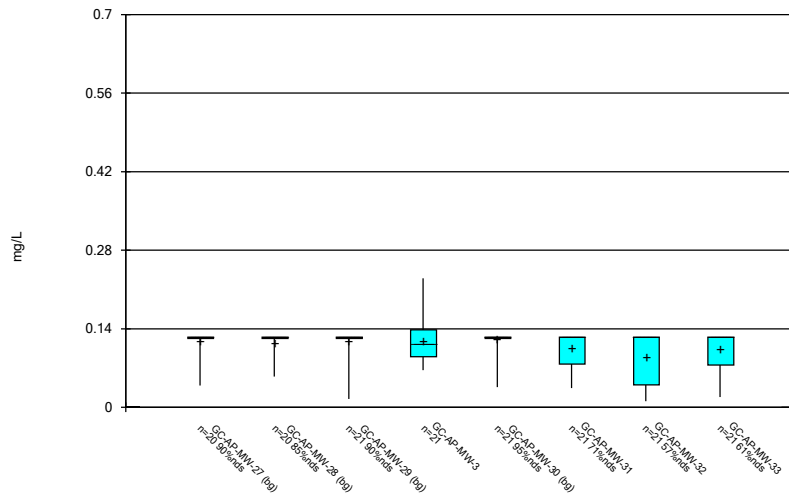
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### Box & Whiskers Plot



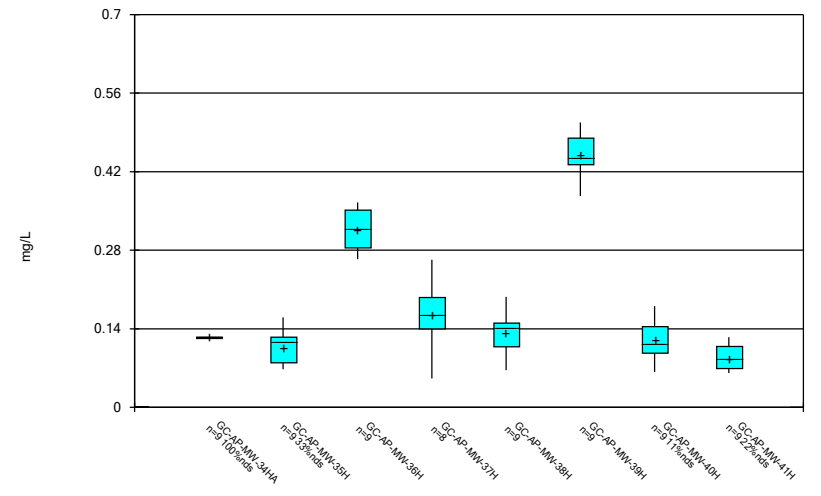
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### Box & Whiskers Plot



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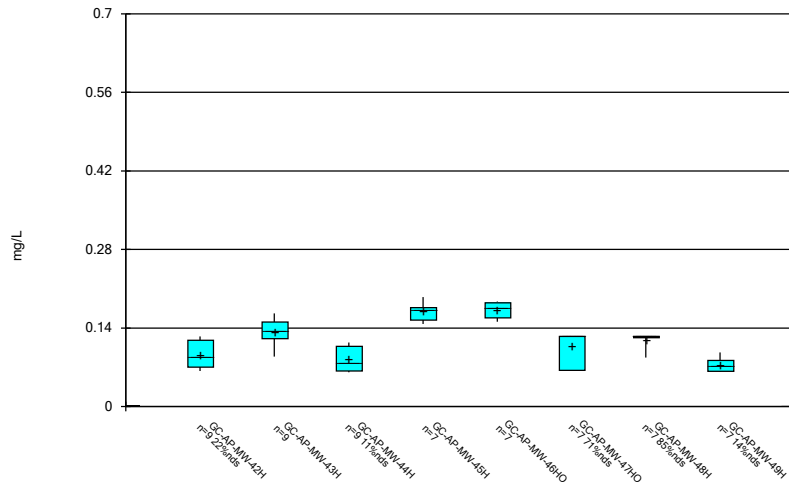
### Box & Whiskers Plot



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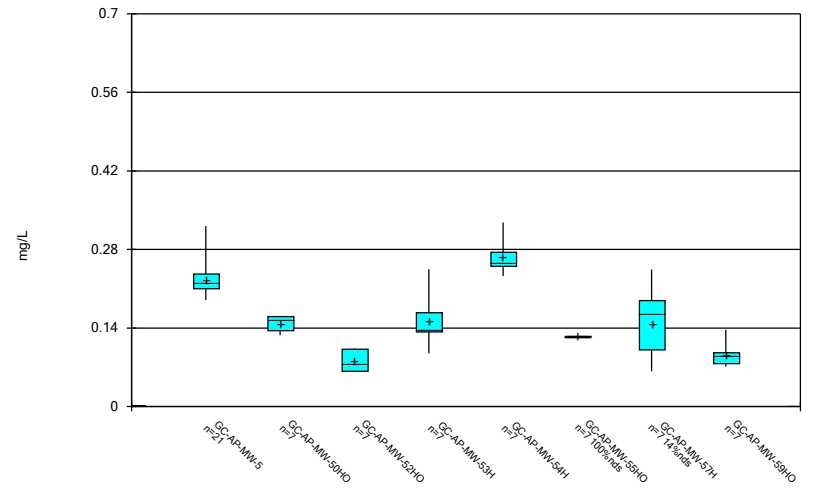


### Box & Whiskers Plot



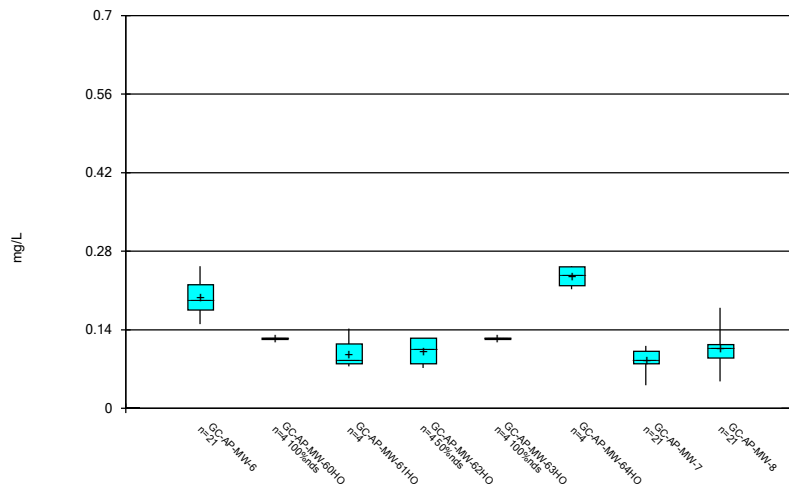
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### Box & Whiskers Plot



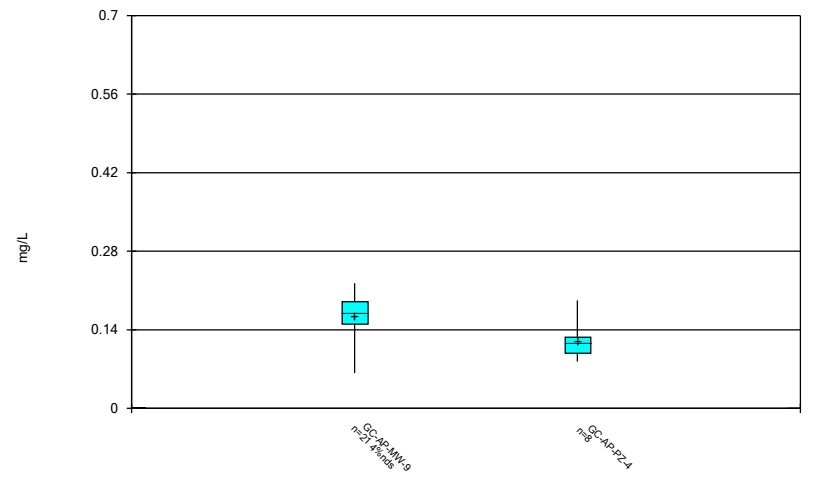
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### Box & Whiskers Plot



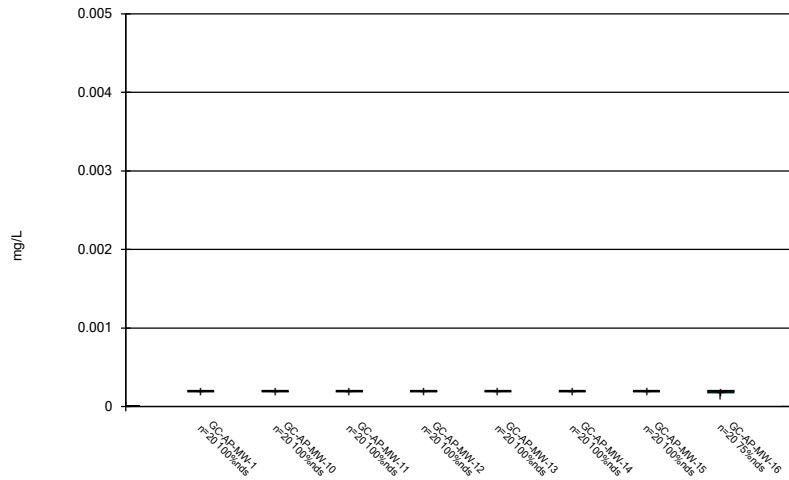
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### Box & Whiskers Plot



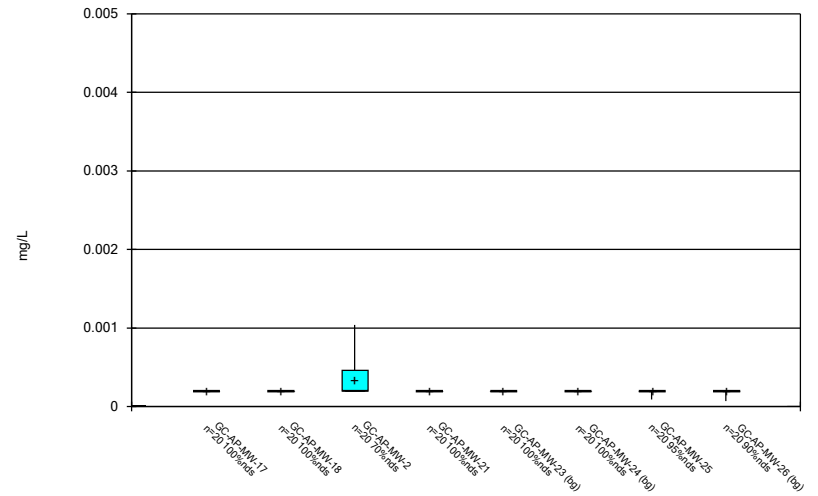
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Box & Whiskers Plot



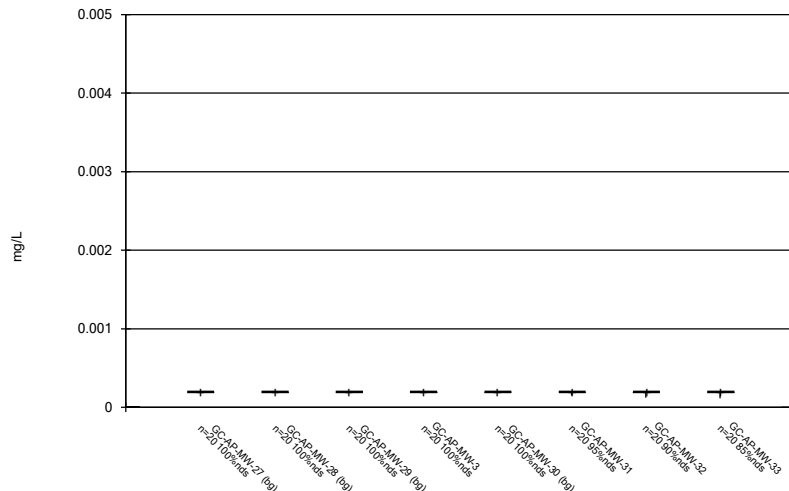
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Box & Whiskers Plot



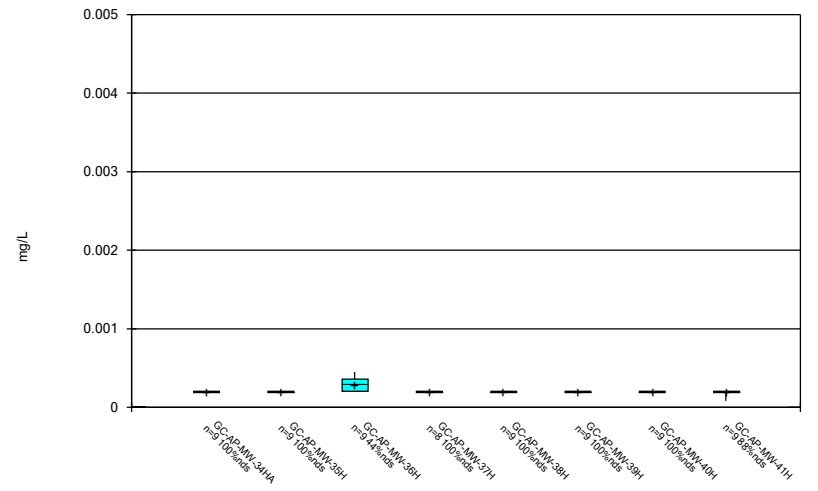
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Box & Whiskers Plot



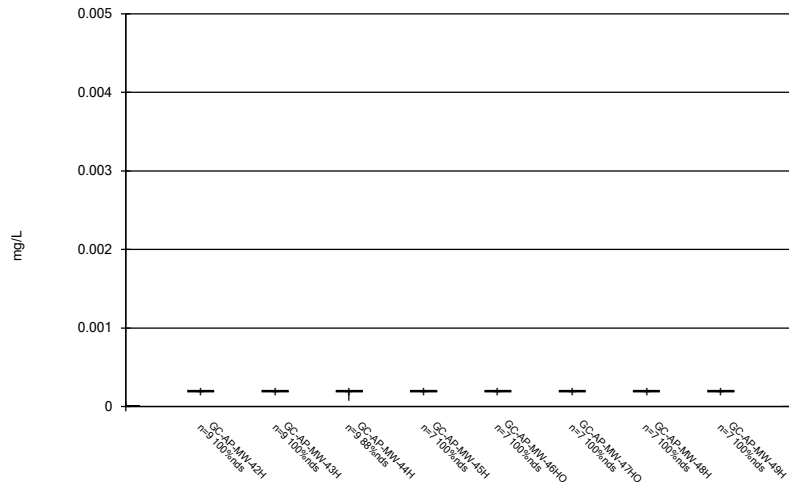
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Box & Whiskers Plot



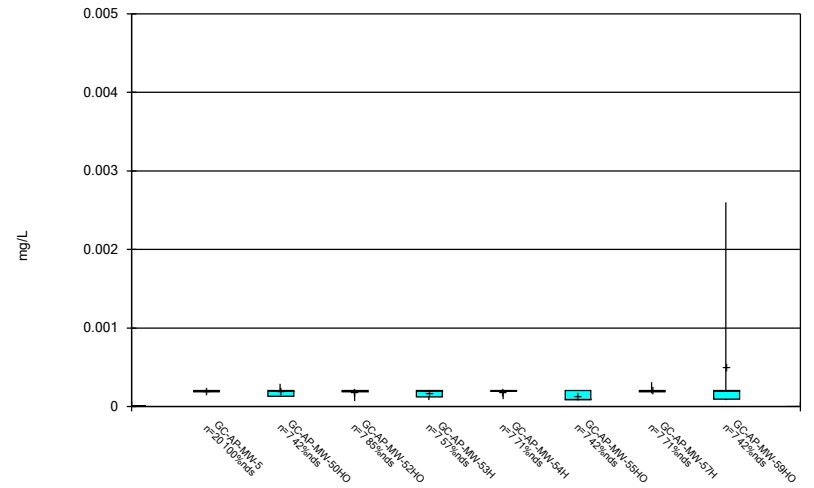
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Box & Whiskers Plot



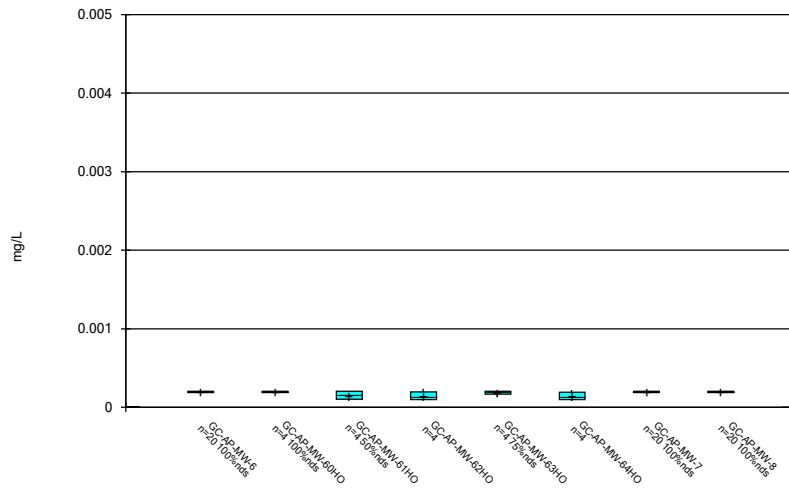
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Box & Whiskers Plot



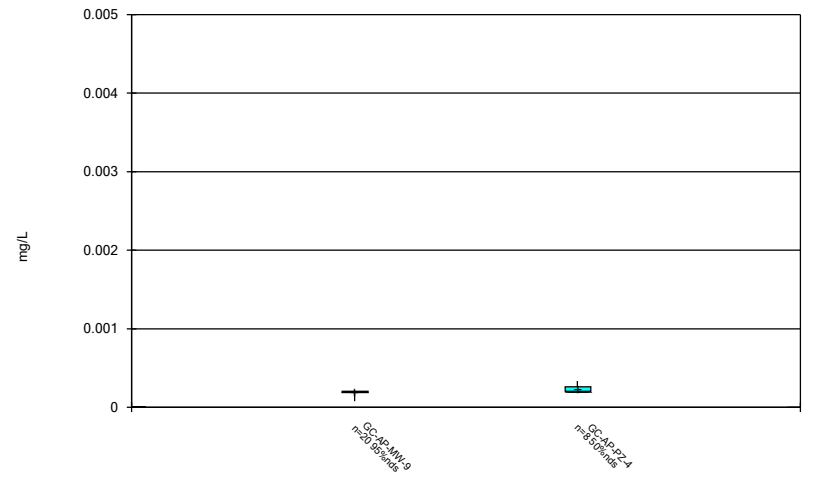
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Box & Whiskers Plot



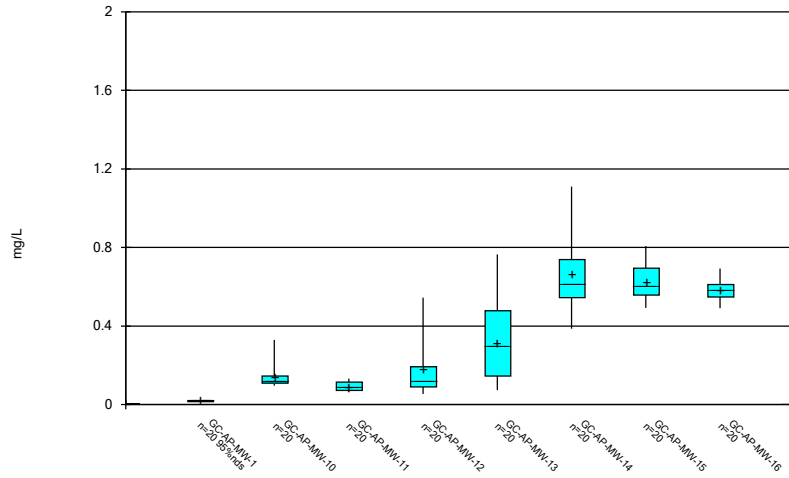
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Box & Whiskers Plot



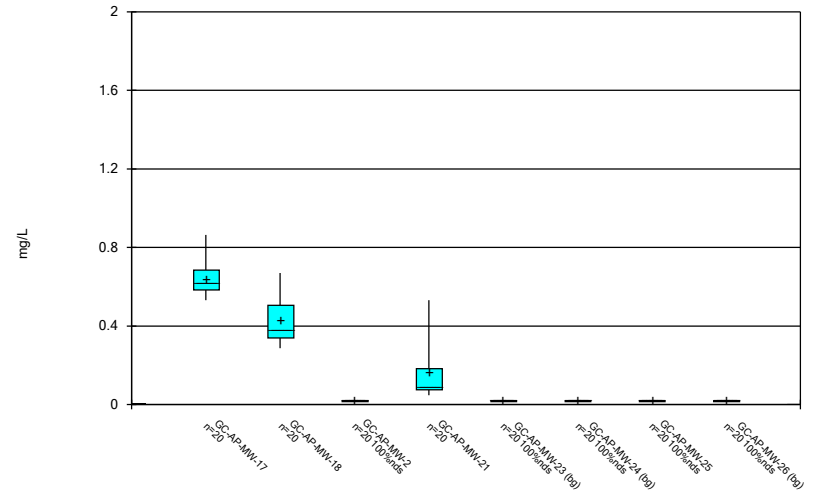
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Box & Whiskers Plot



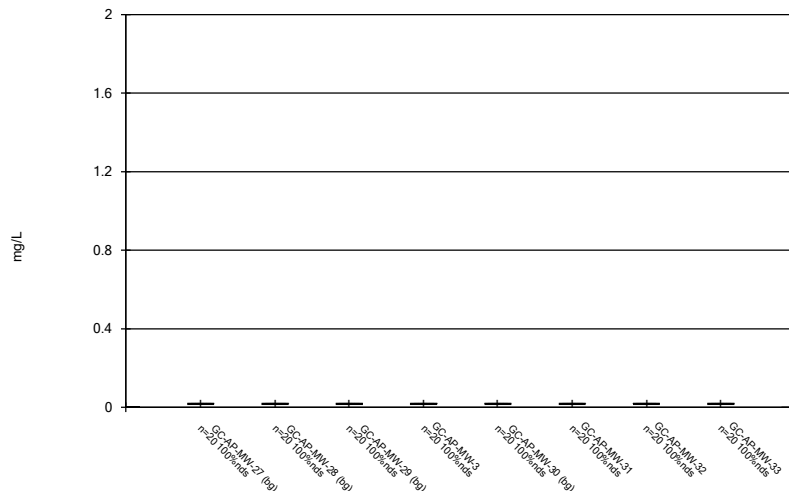
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Box & Whiskers Plot



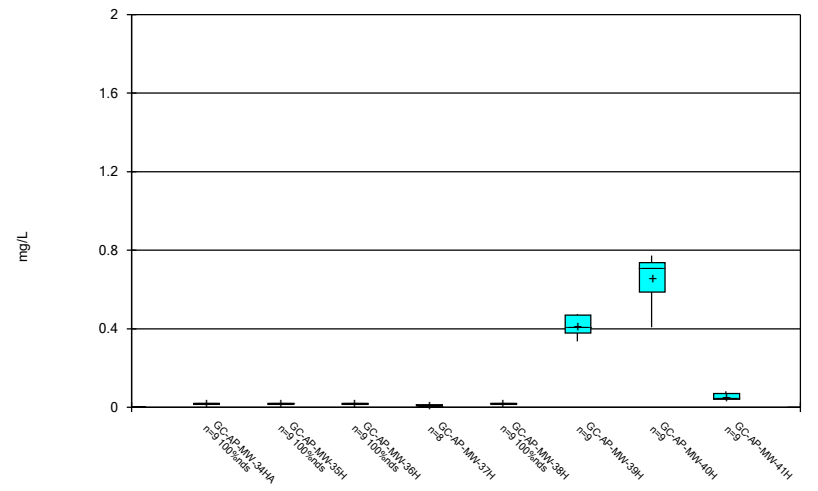
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Box & Whiskers Plot



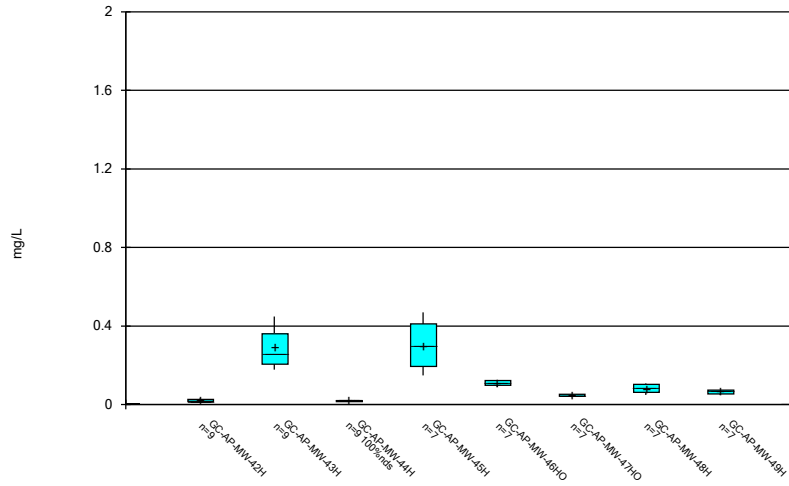
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Box & Whiskers Plot



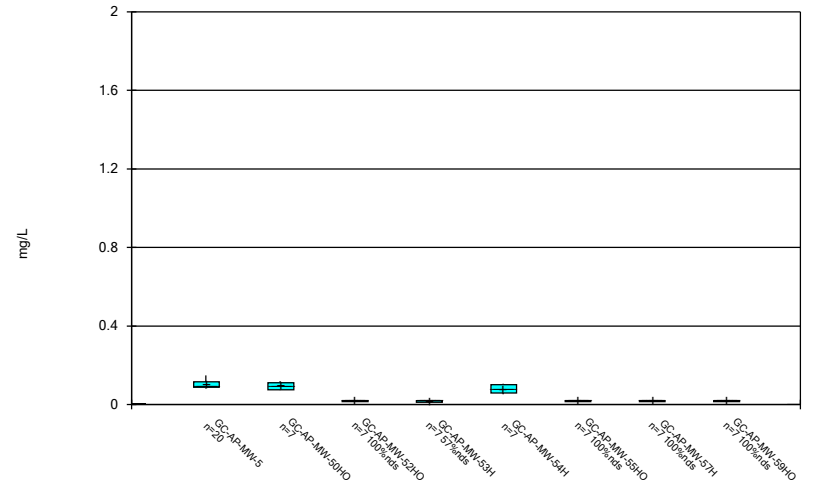
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Box & Whiskers Plot



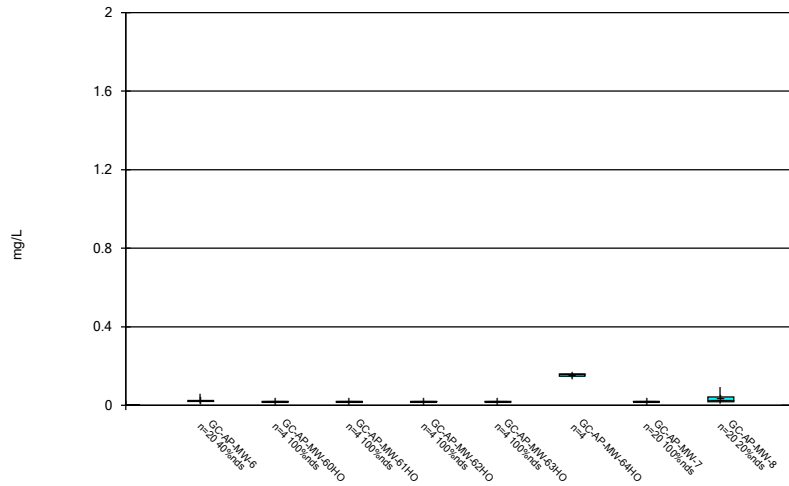
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Box & Whiskers Plot



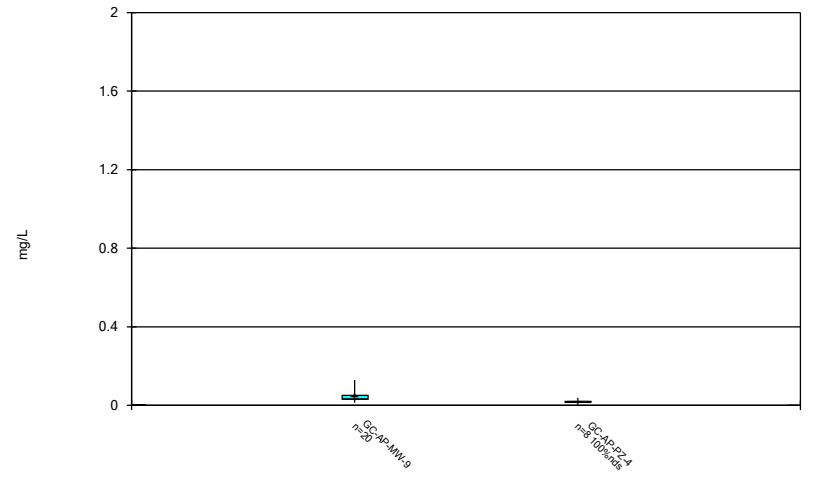
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Box & Whiskers Plot



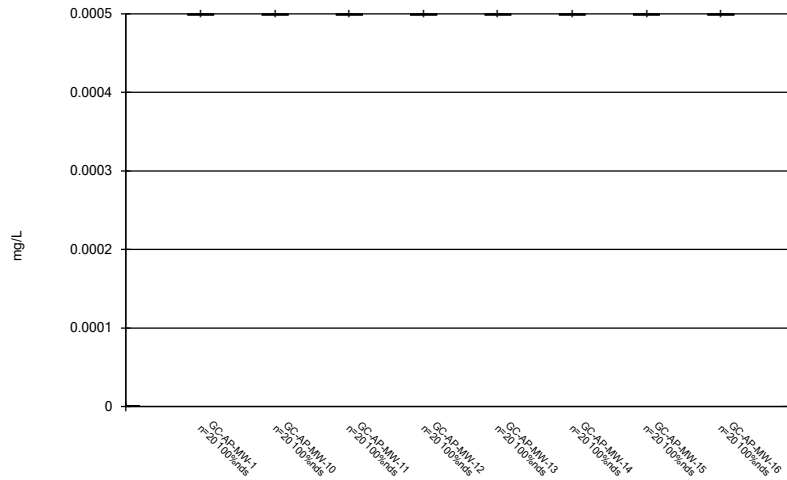
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Box & Whiskers Plot



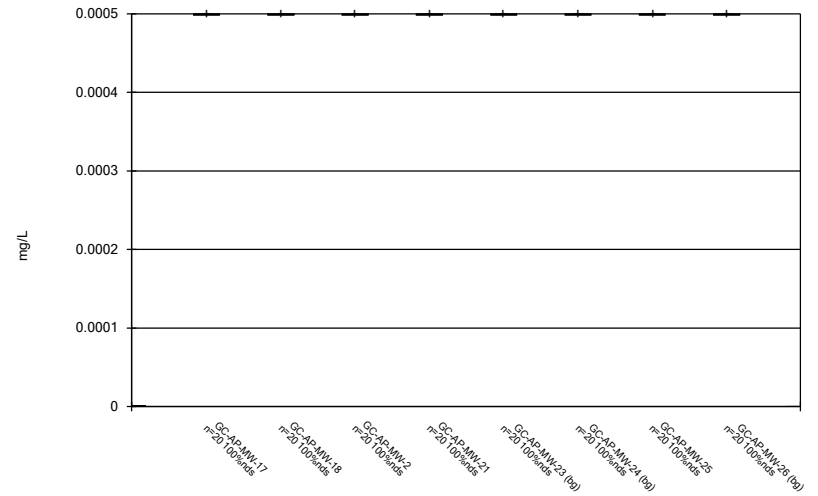
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Box & Whiskers Plot



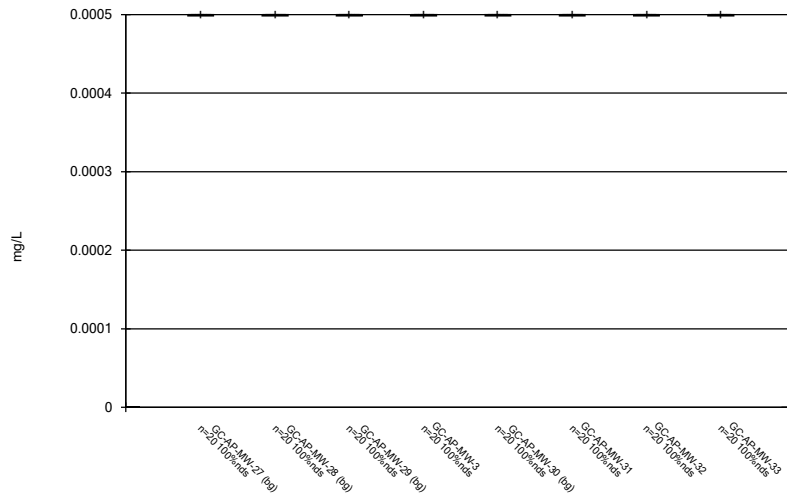
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Box & Whiskers Plot



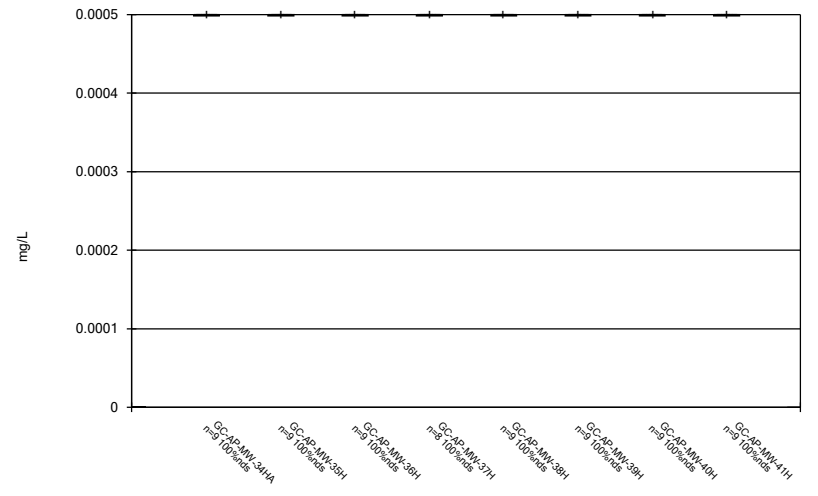
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Box & Whiskers Plot



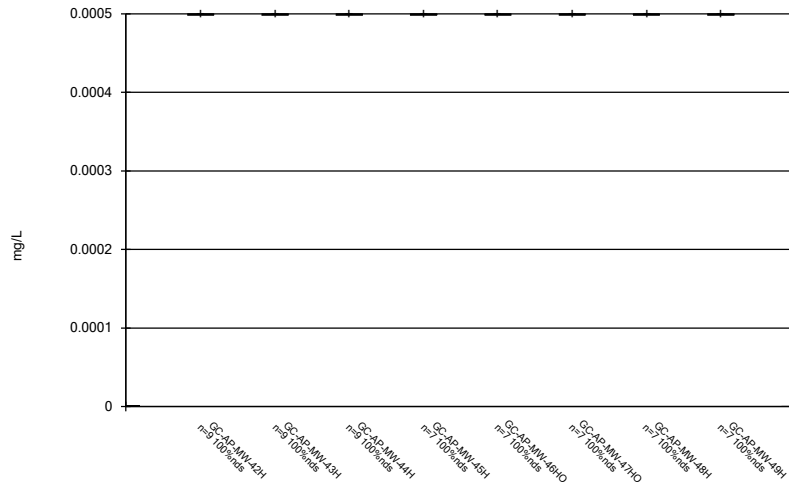
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Box & Whiskers Plot



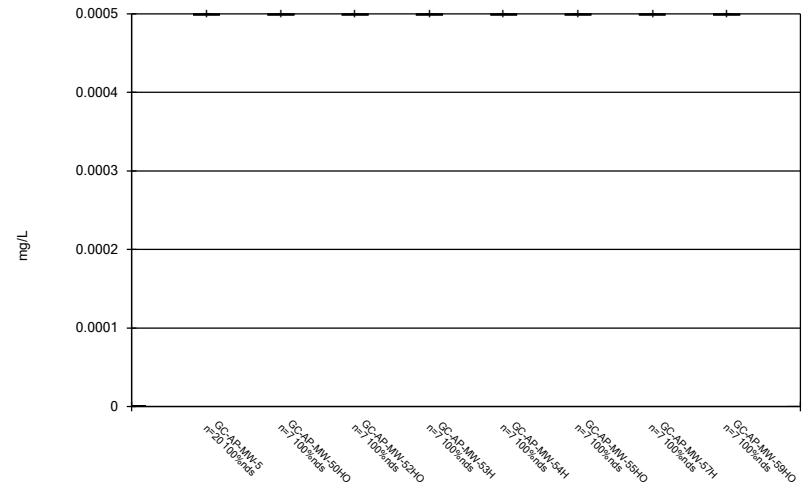
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Box & Whiskers Plot



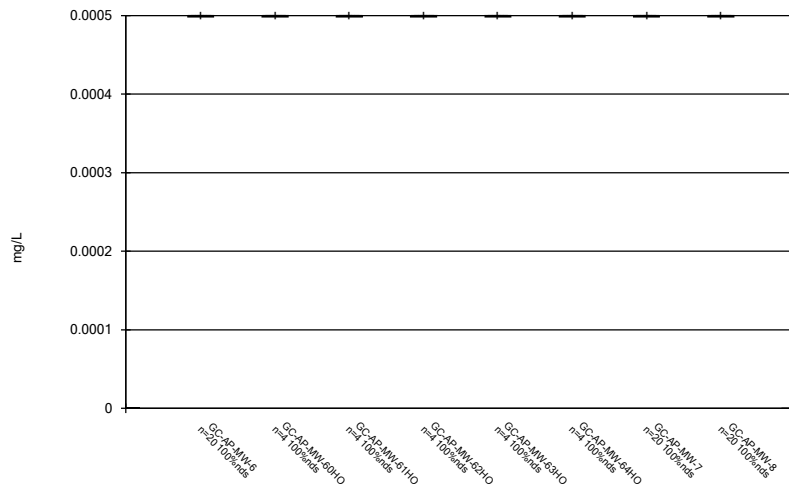
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Box & Whiskers Plot



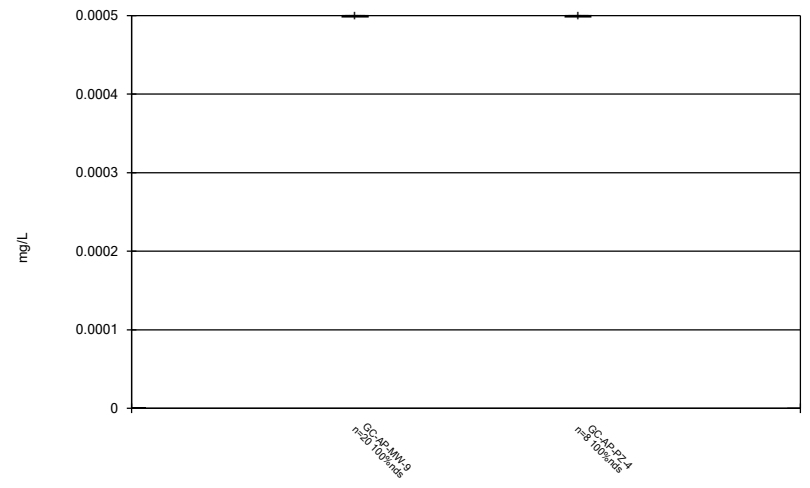
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Box & Whiskers Plot



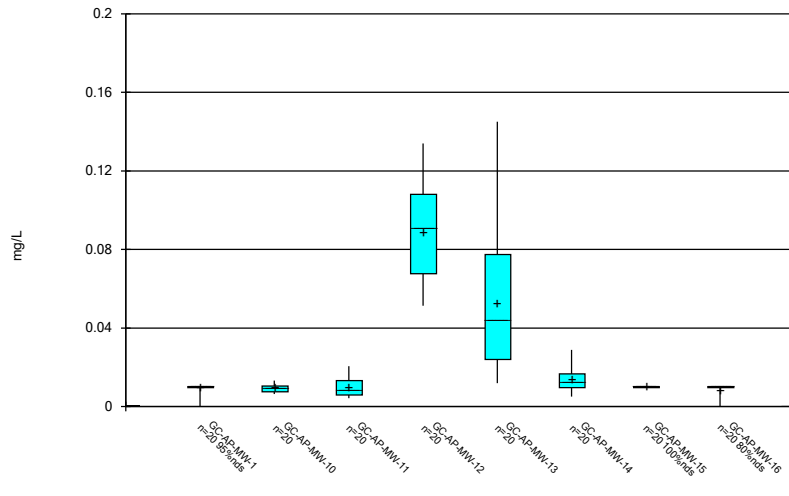
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Box & Whiskers Plot



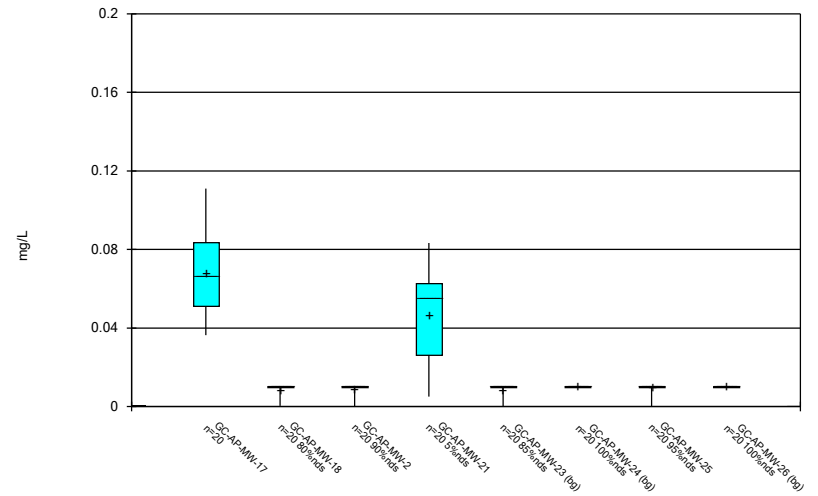
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### Box & Whiskers Plot



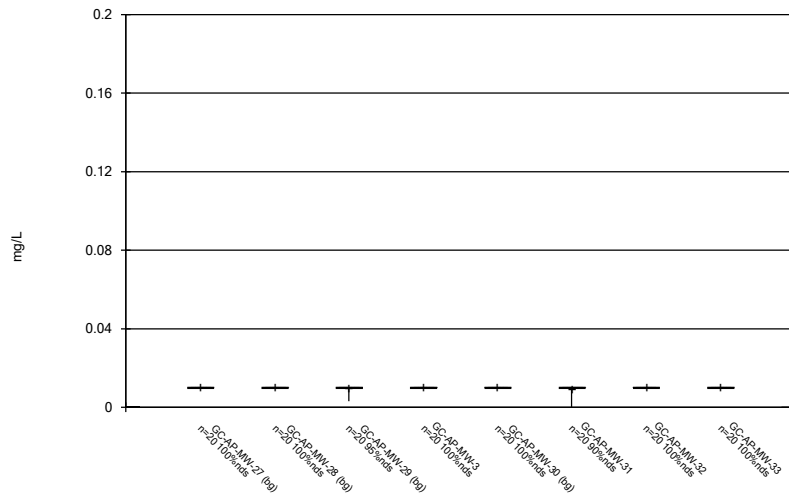
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### Box & Whiskers Plot



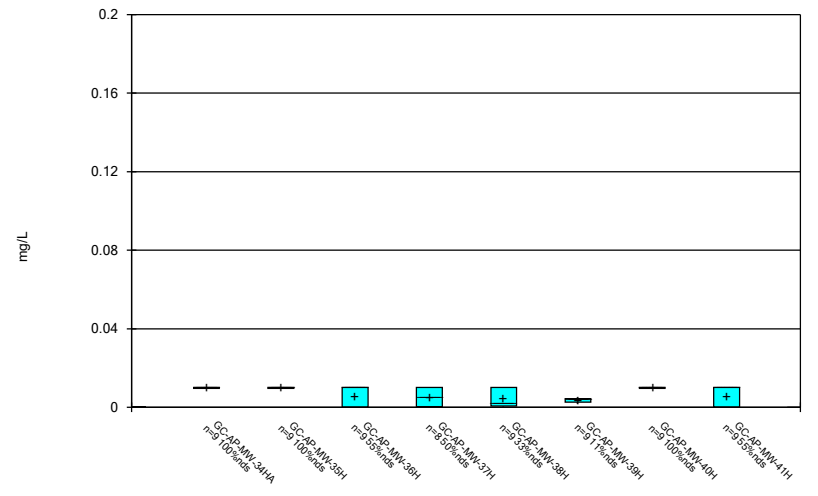
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### Box & Whiskers Plot



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 Plant Greene County Client: Southern Company Data: Greene County AP

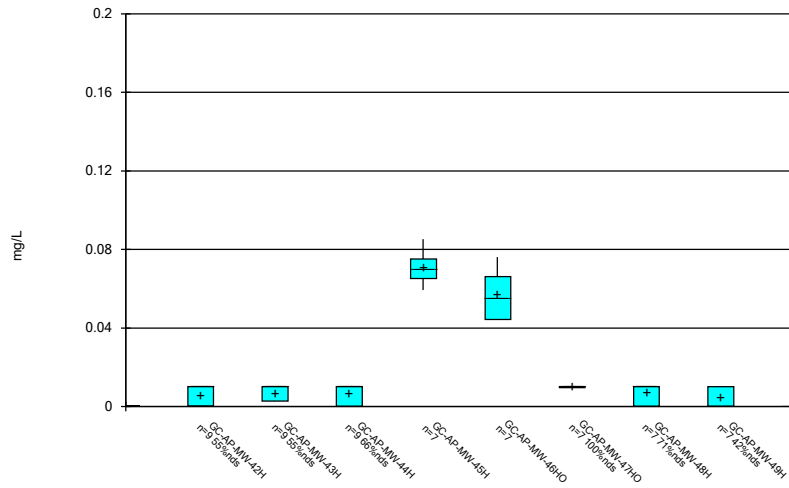
### Box & Whiskers Plot



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 Plant Greene County Client: Southern Company Data: Greene County AP

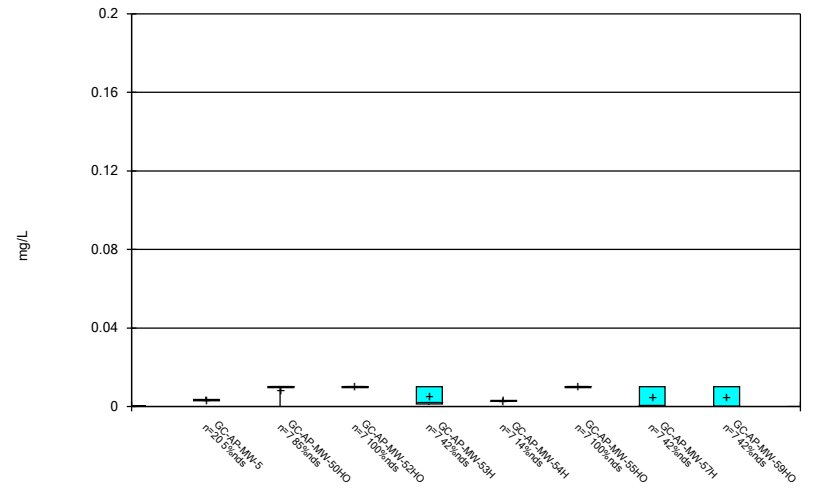


### Box & Whiskers Plot



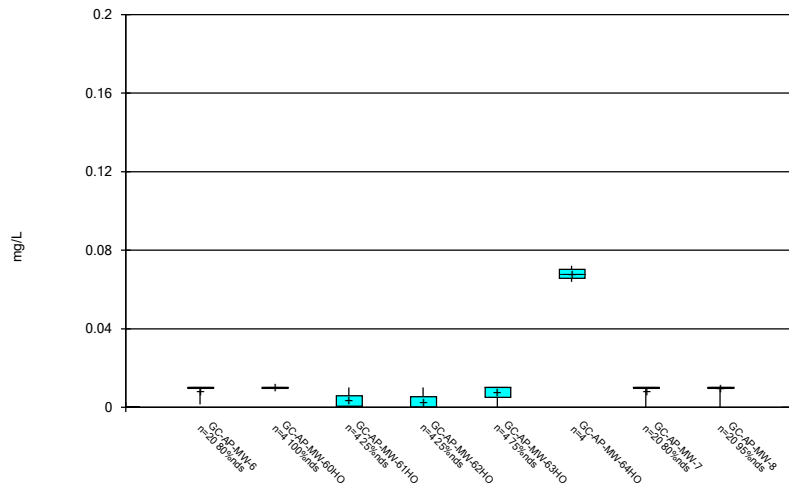
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### Box & Whiskers Plot



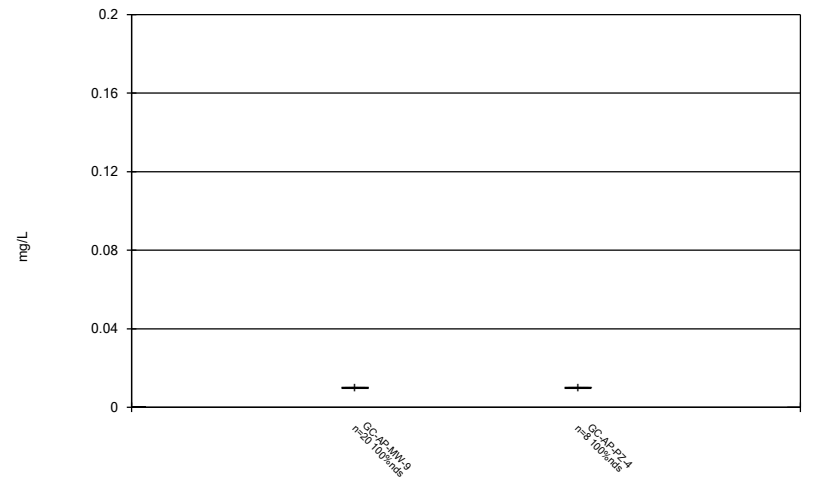
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### Box & Whiskers Plot



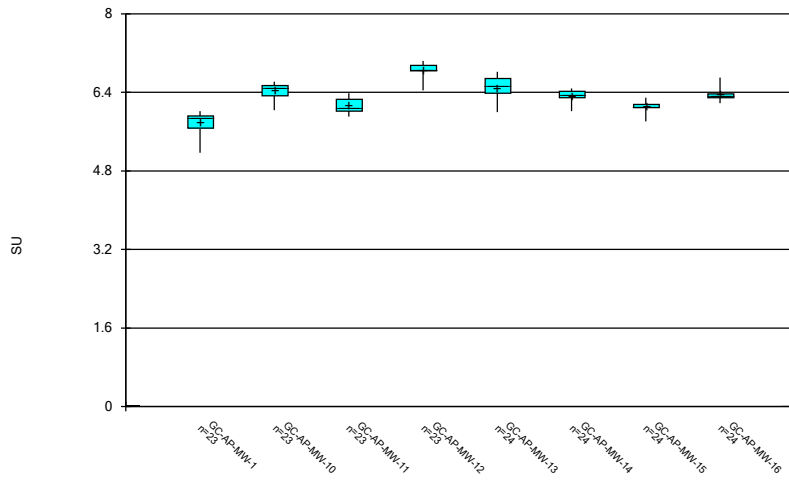
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### Box & Whiskers Plot



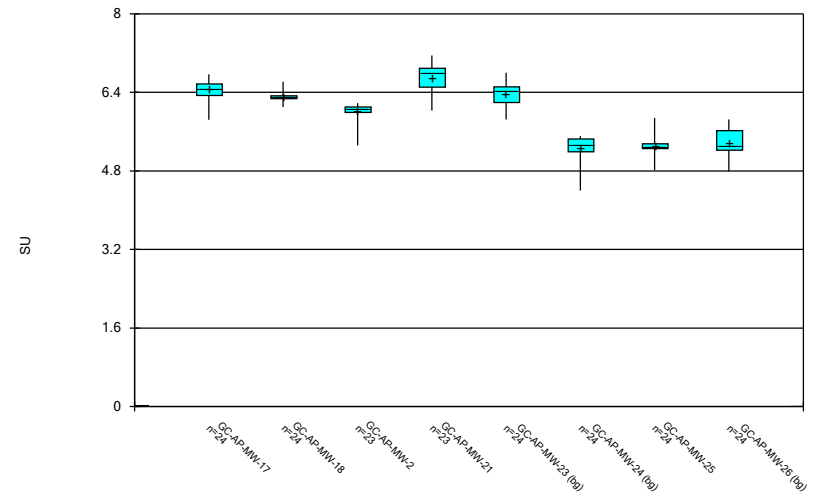
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Box & Whiskers Plot



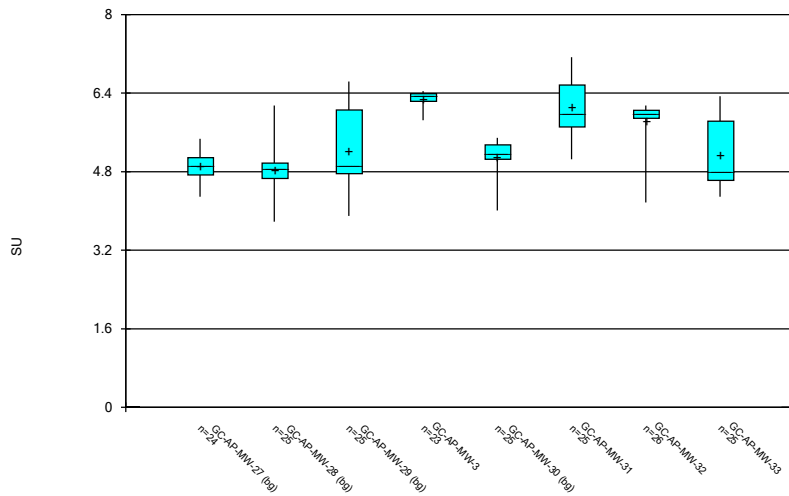
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



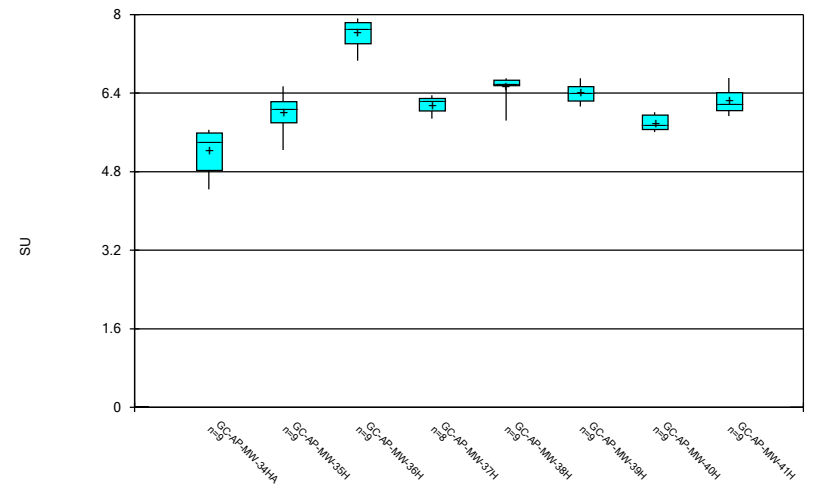
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Box & Whiskers Plot



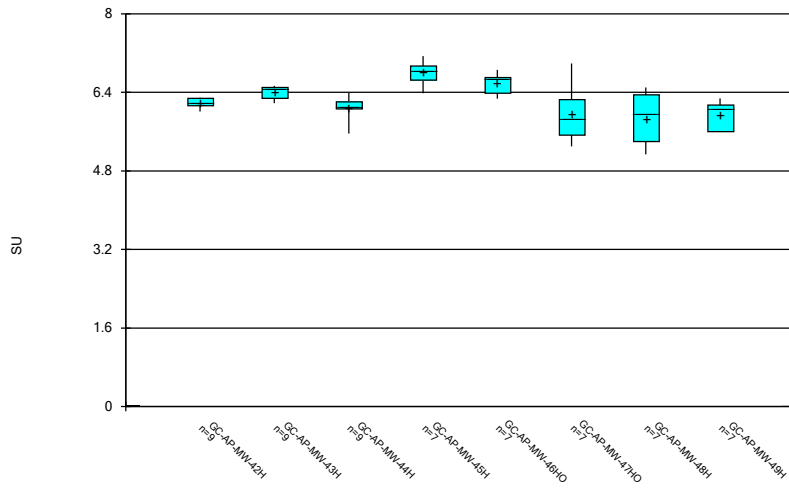
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Box & Whiskers Plot



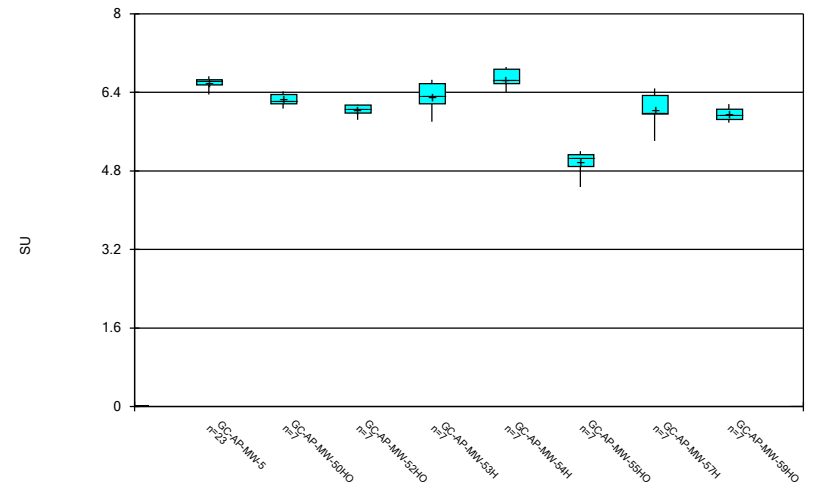
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Box & Whiskers Plot



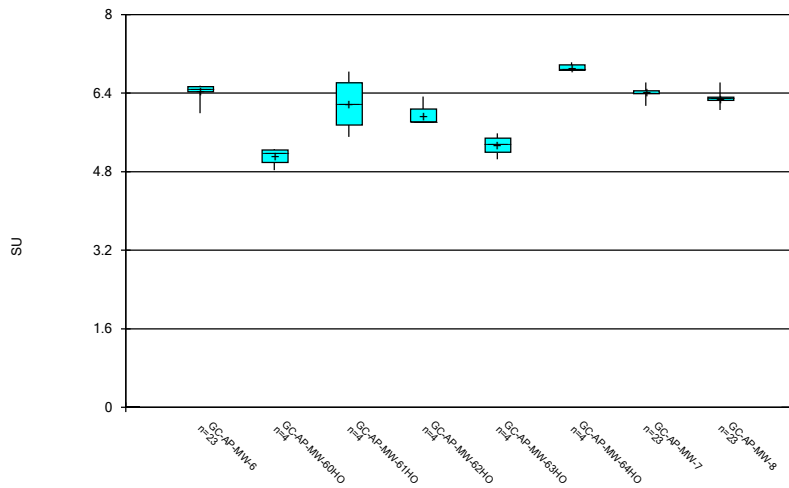
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Box & Whiskers Plot



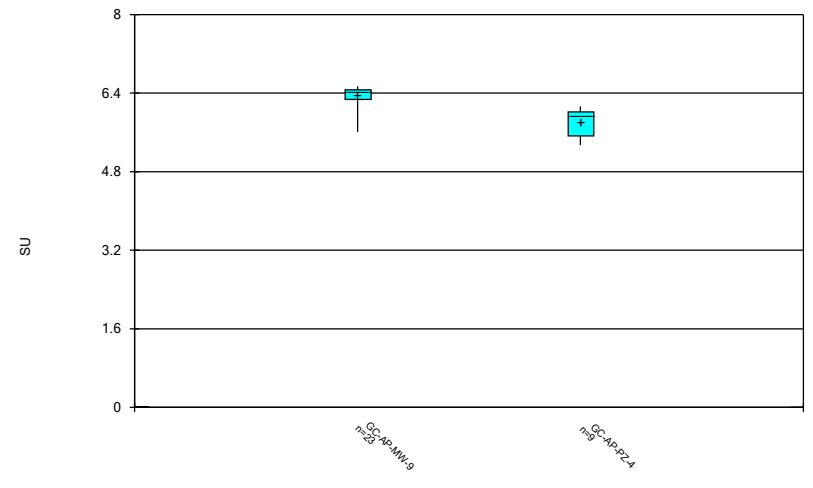
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Box & Whiskers Plot



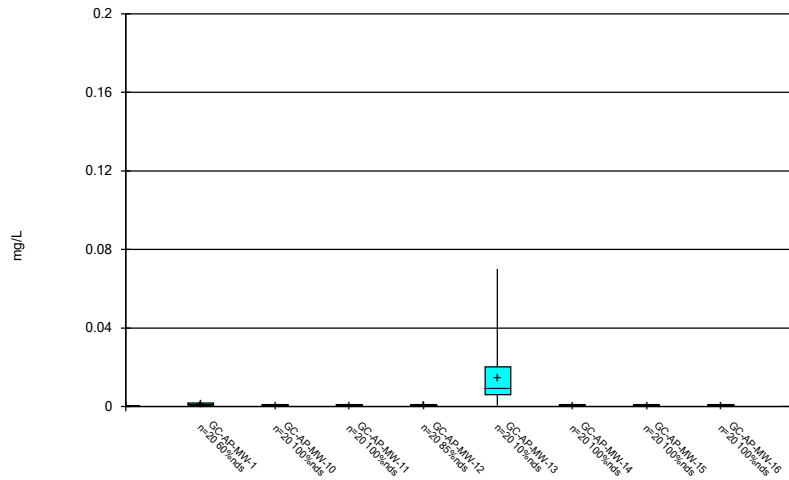
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Box & Whiskers Plot



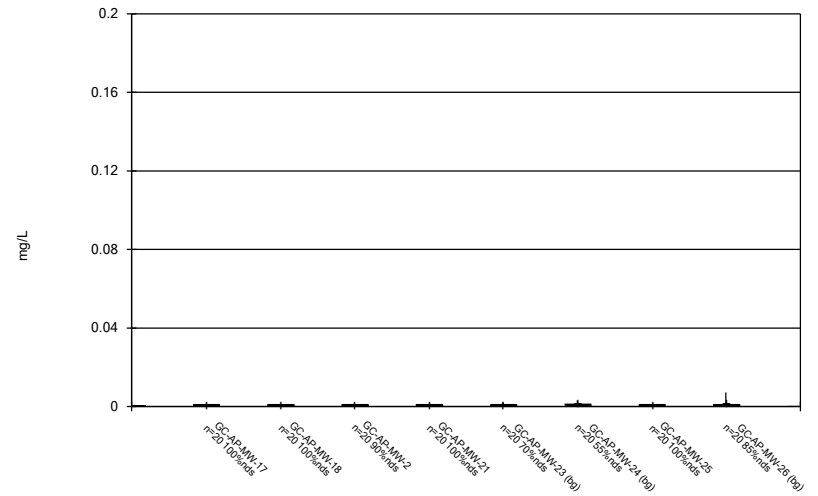
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Box & Whiskers Plot



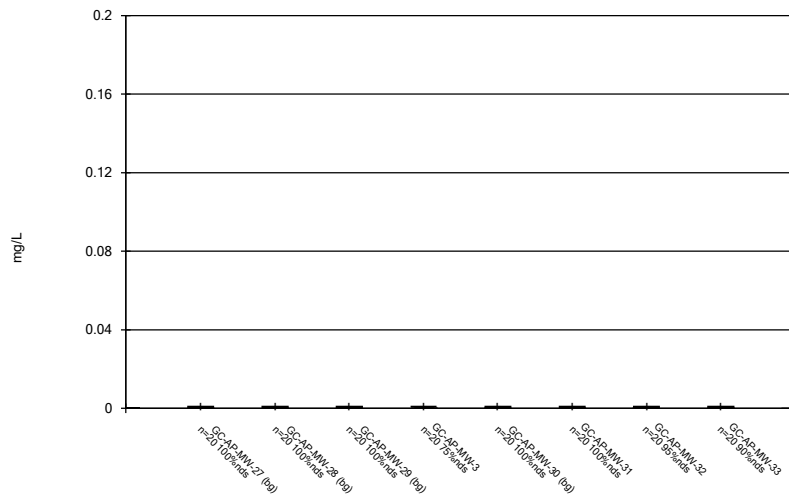
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Box & Whiskers Plot



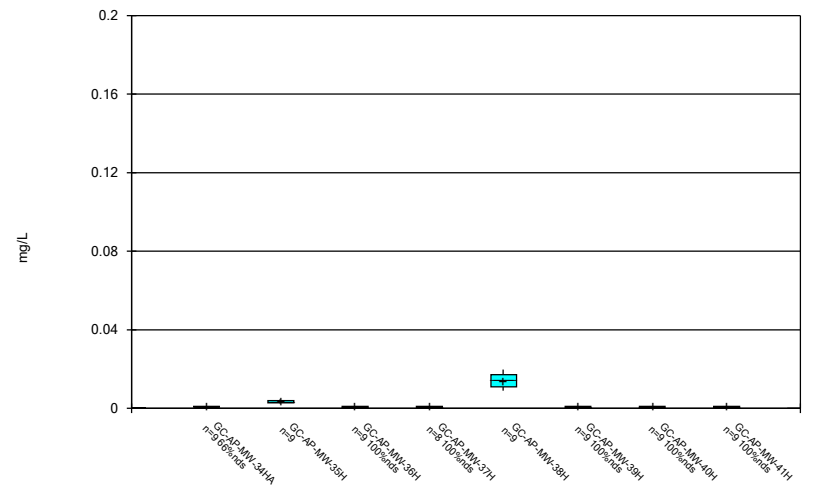
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Box & Whiskers Plot



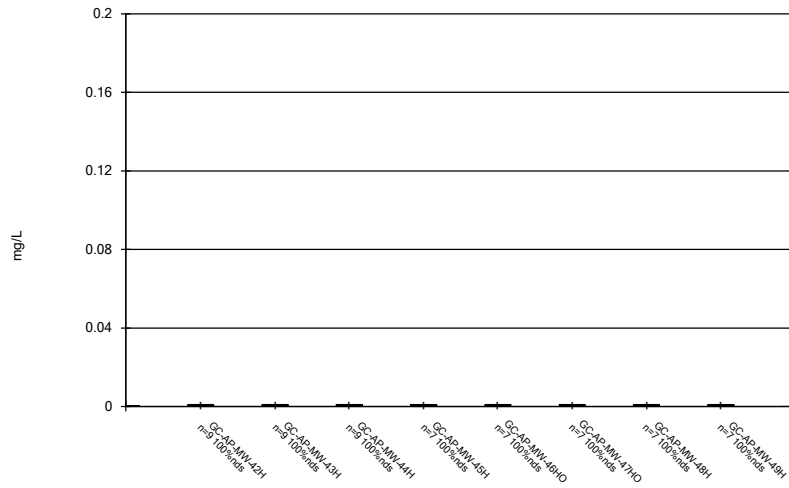
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Box & Whiskers Plot



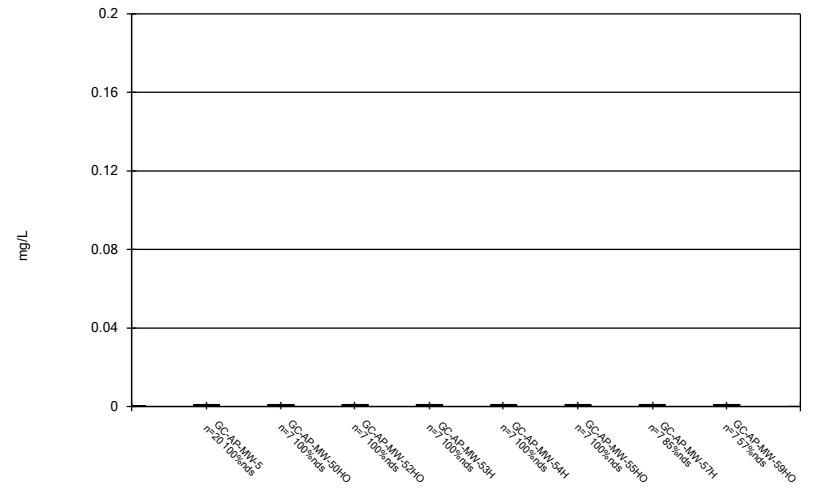
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Box & Whiskers Plot



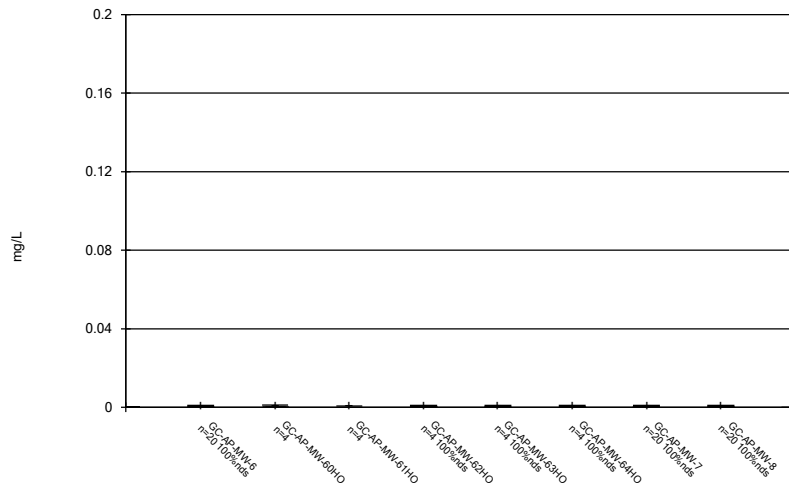
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Box & Whiskers Plot



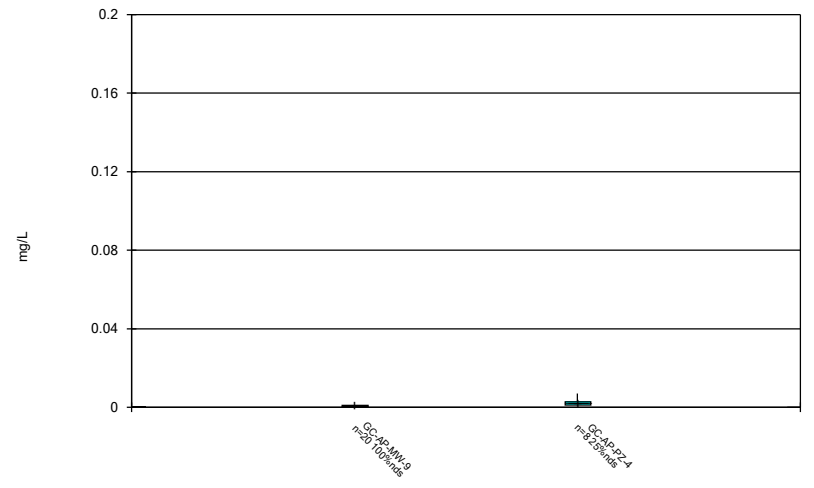
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Box & Whiskers Plot



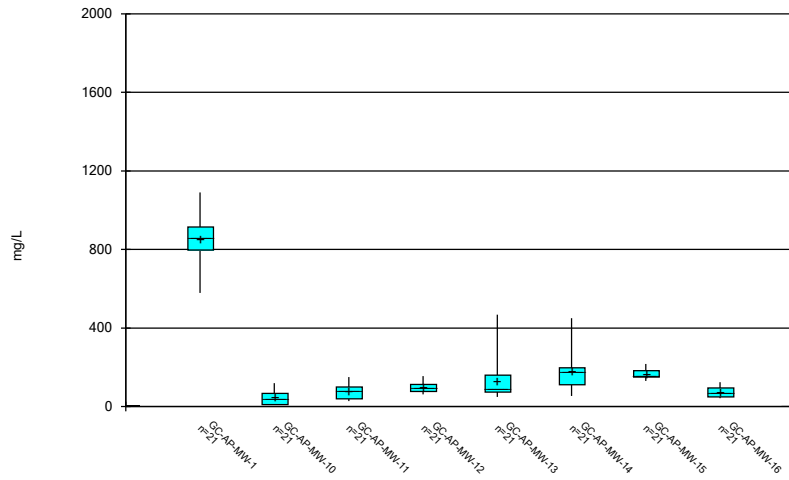
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Box & Whiskers Plot



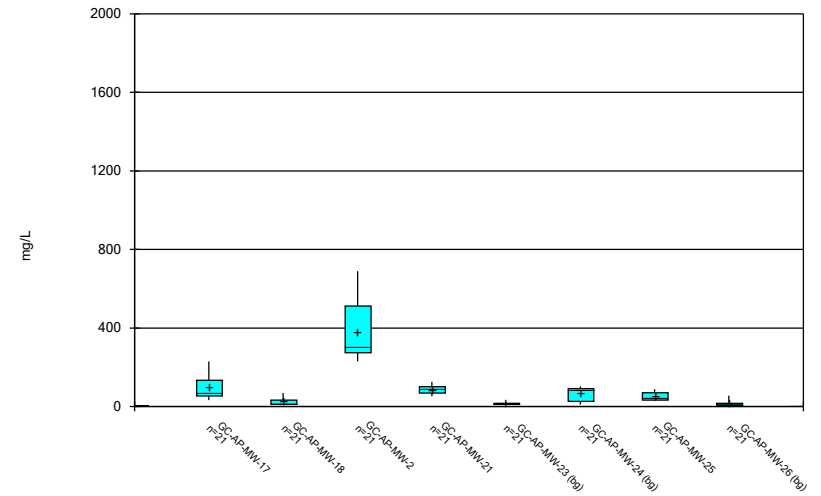
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Box & Whiskers Plot



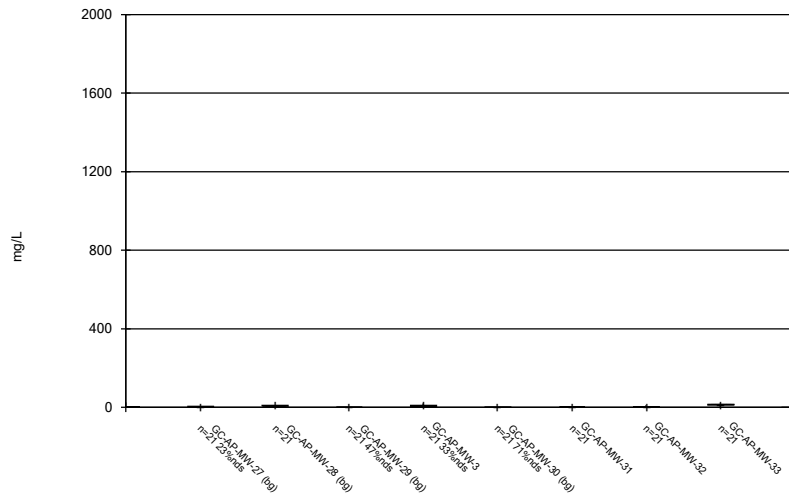
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Box & Whiskers Plot



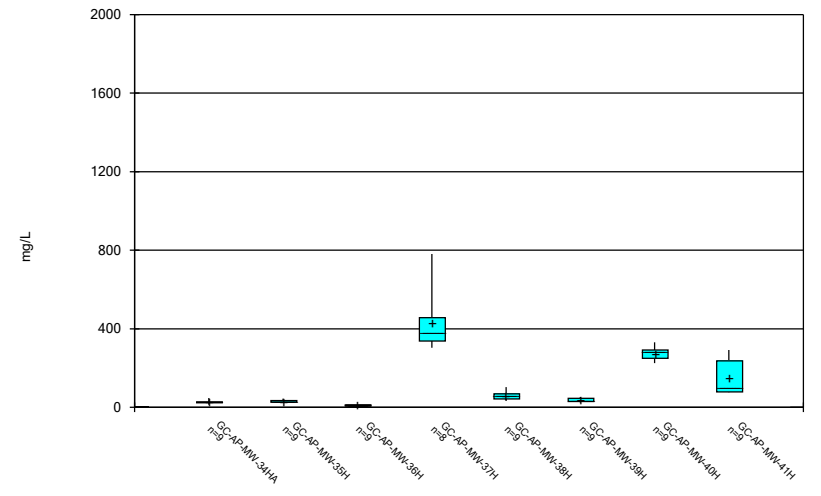
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Box & Whiskers Plot



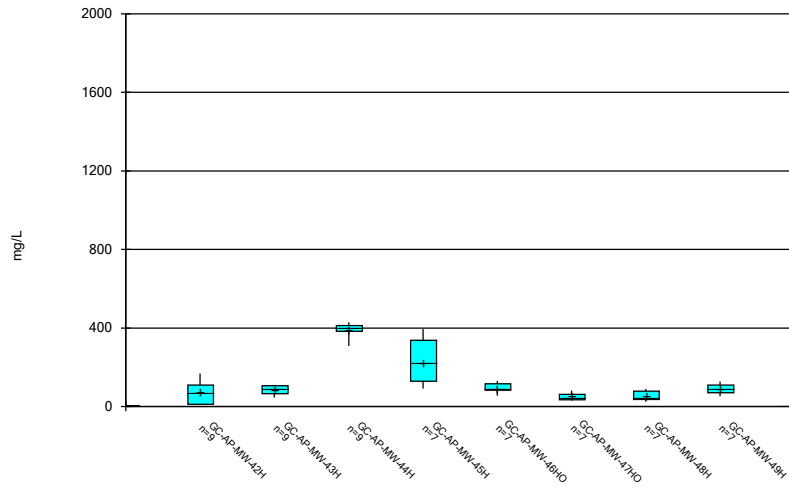
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Box & Whiskers Plot



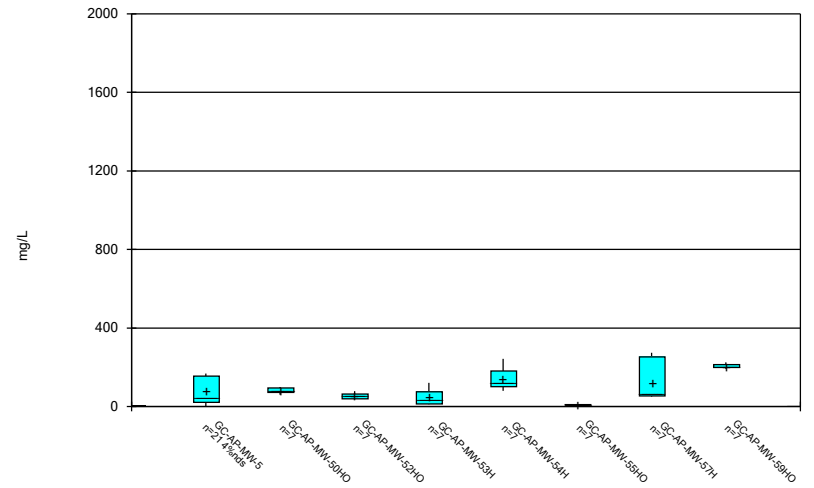
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Box & Whiskers Plot



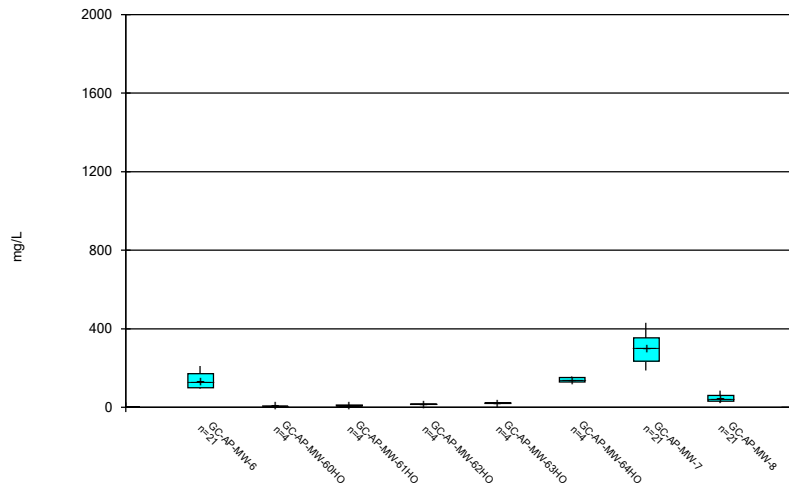
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Box & Whiskers Plot



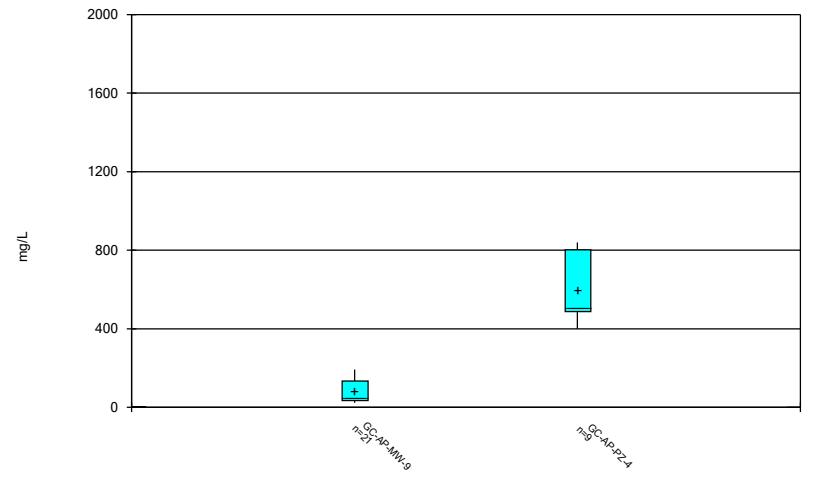
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Box & Whiskers Plot



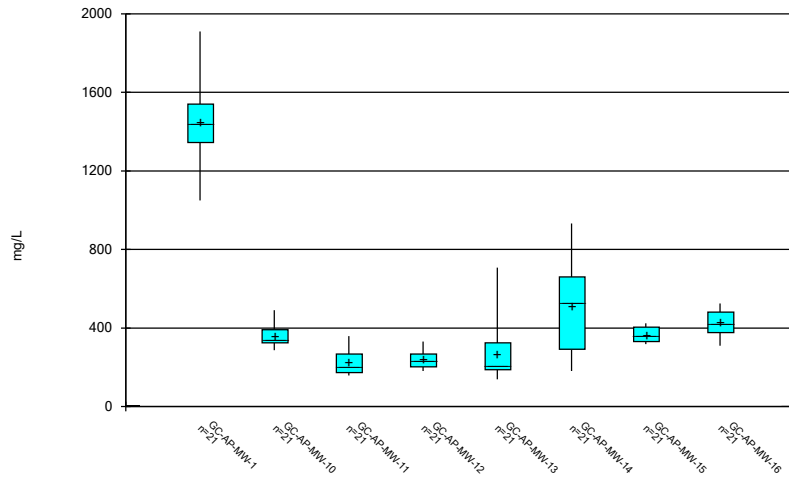
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Box & Whiskers Plot



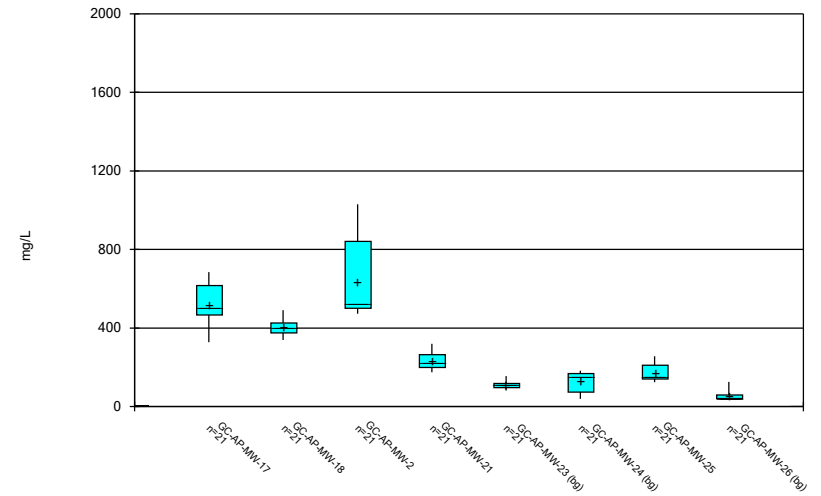
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### Box & Whiskers Plot



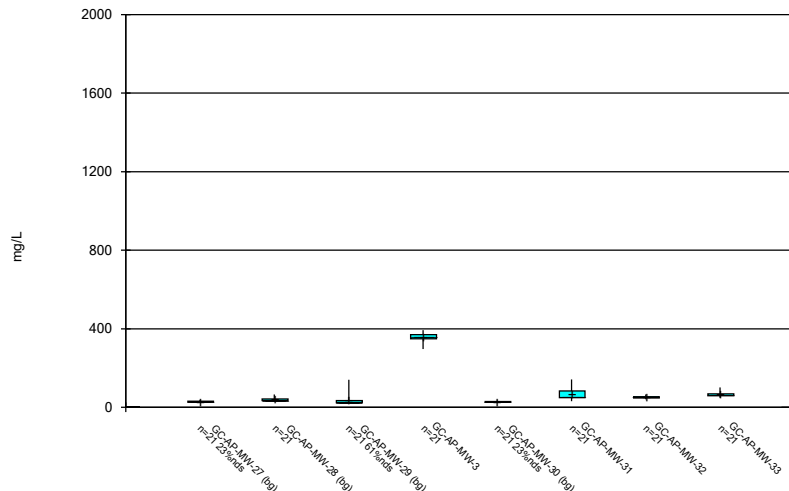
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### Box & Whiskers Plot



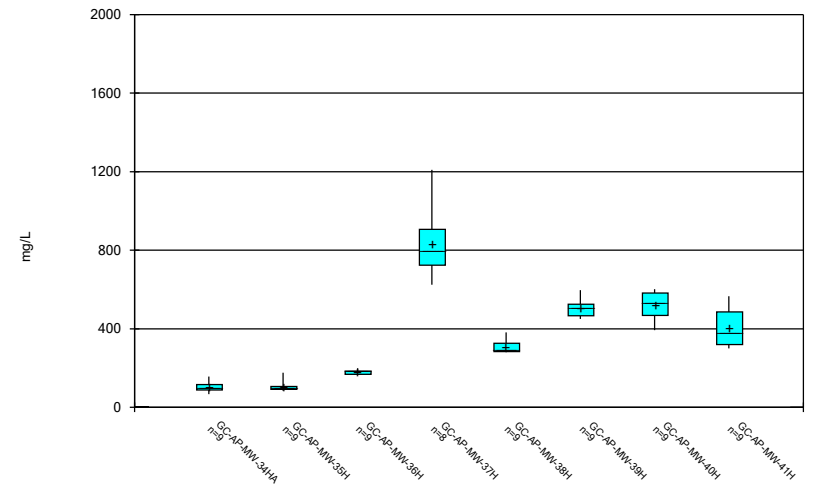
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### Box & Whiskers Plot



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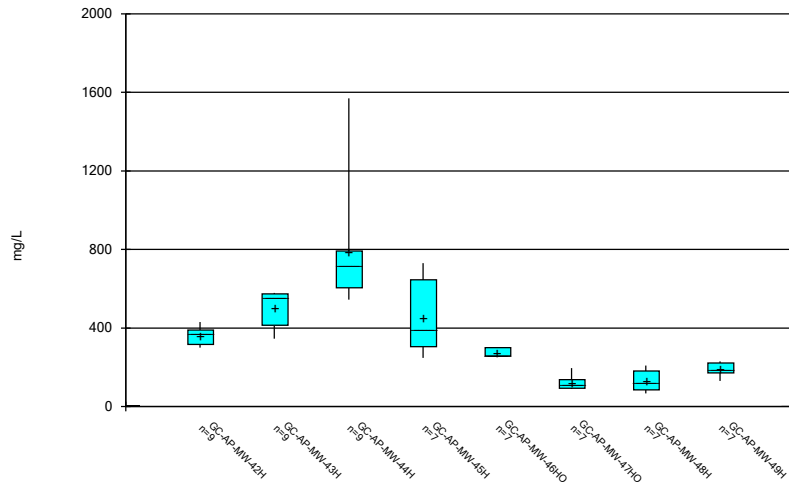
### Box & Whiskers Plot



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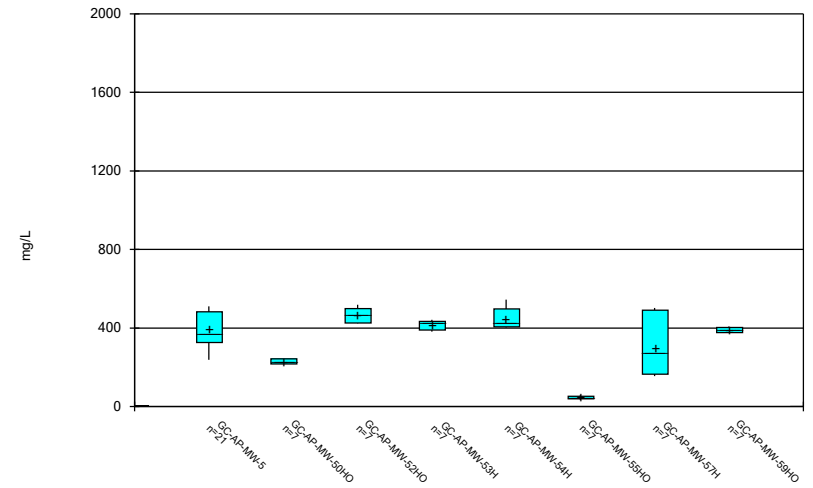


Box & Whiskers Plot



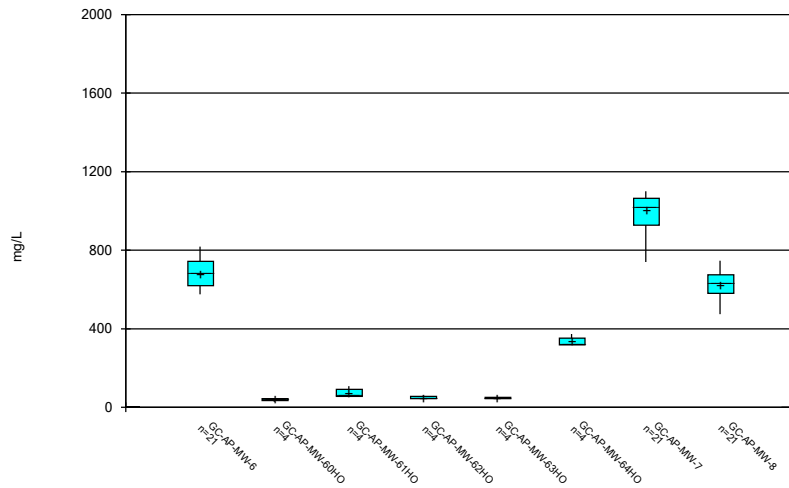
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Box & Whiskers Plot



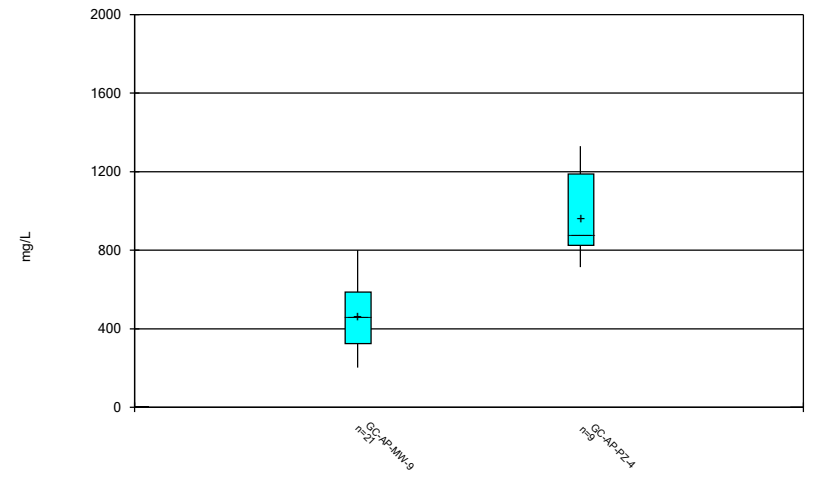
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Box & Whiskers Plot



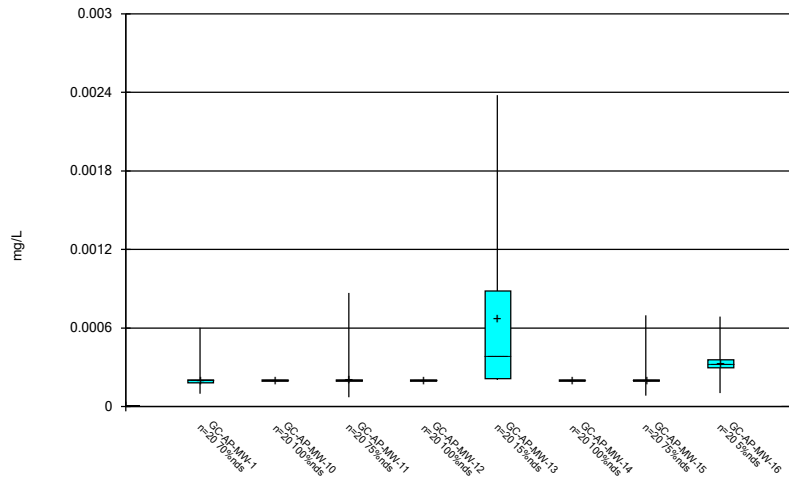
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Box & Whiskers Plot



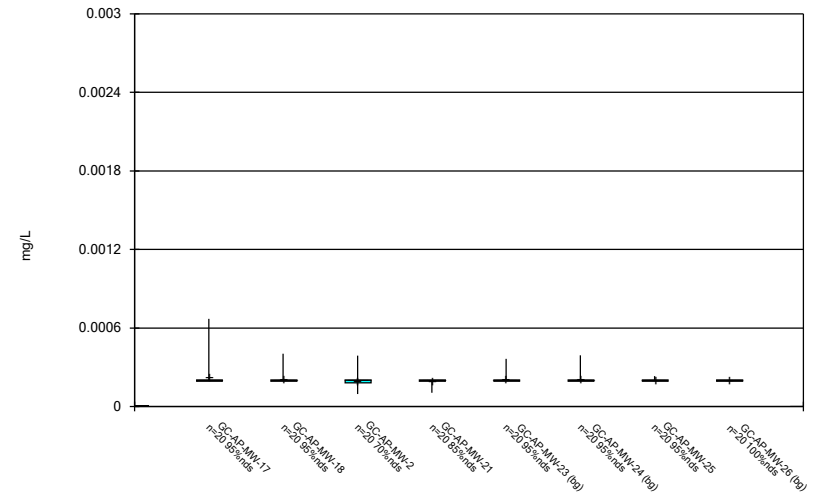
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Box & Whiskers Plot



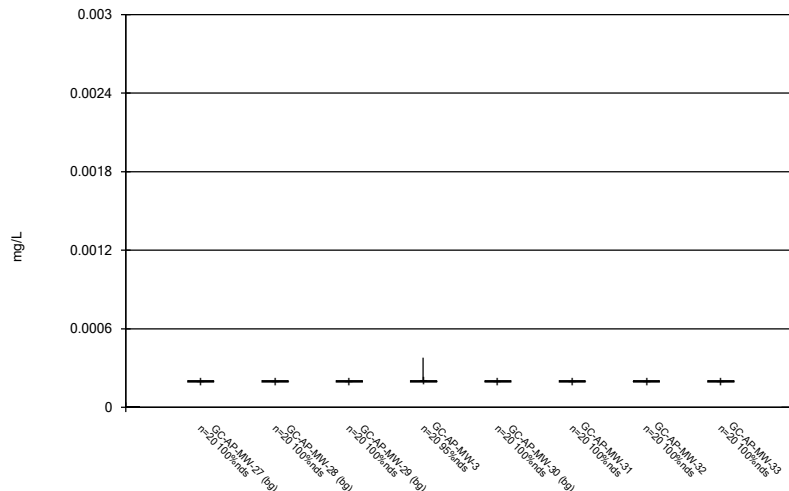
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Box & Whiskers Plot



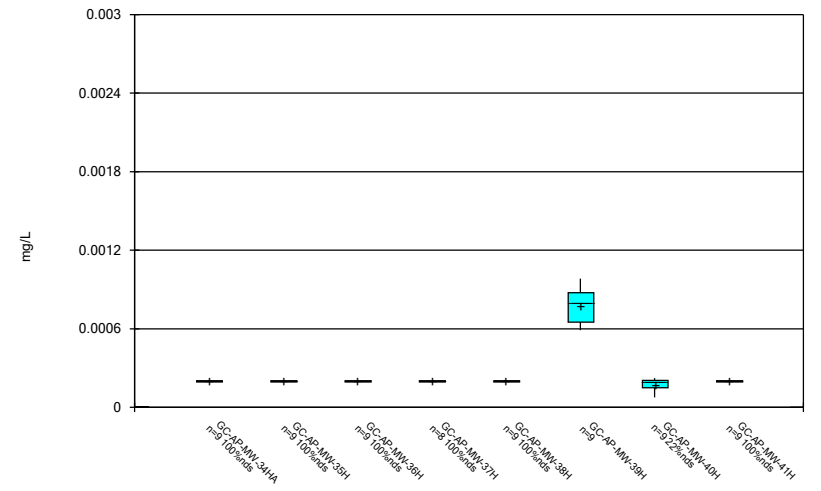
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Box & Whiskers Plot



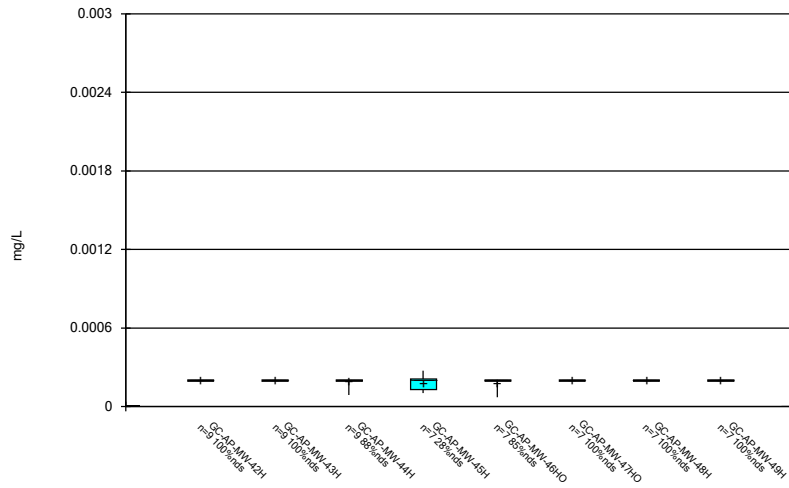
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Box & Whiskers Plot



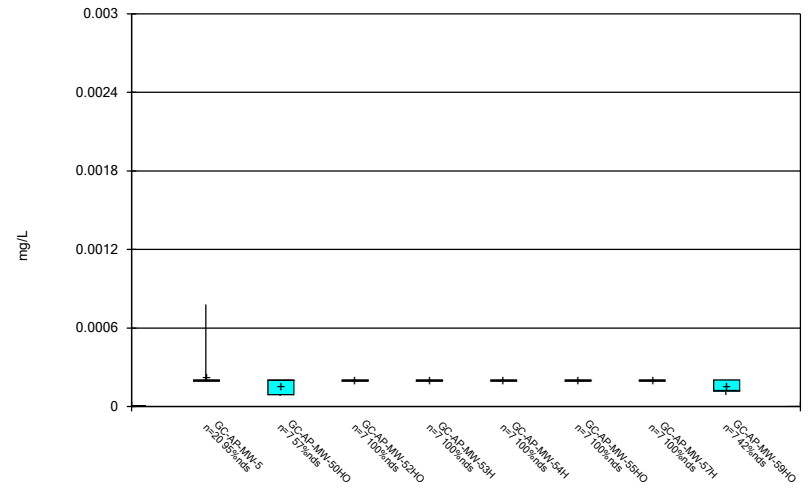
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Box & Whiskers Plot



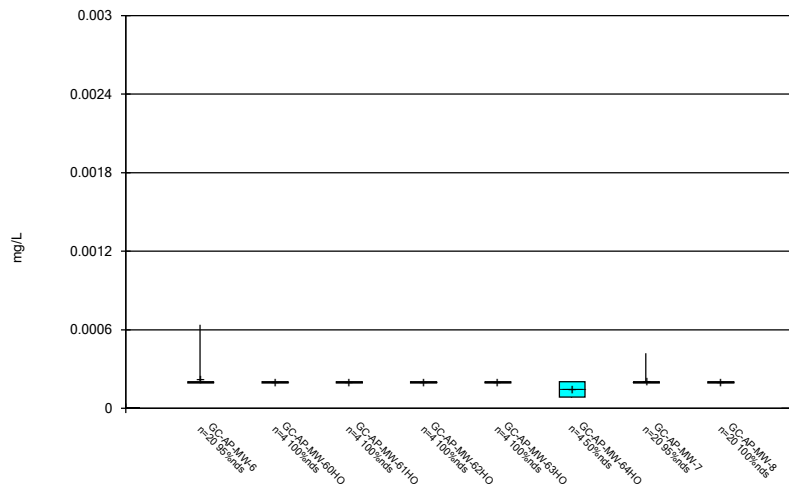
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Box & Whiskers Plot



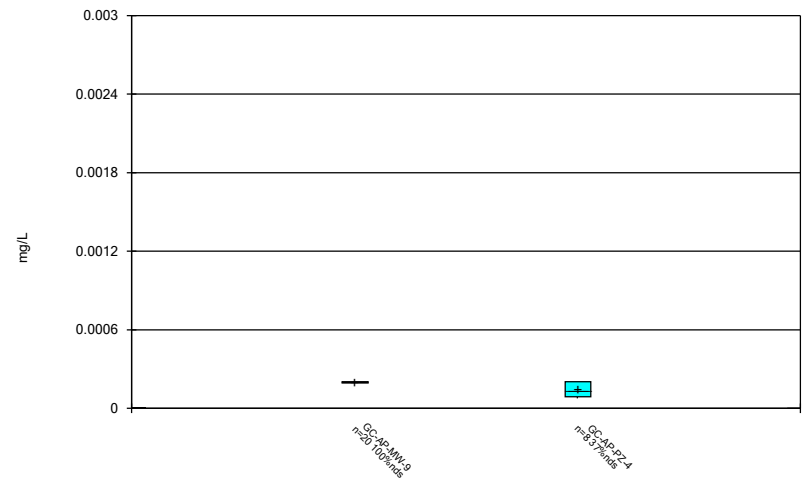
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 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



Constituent: Thallium Analysis Run 7/19/2023 9:33 AM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

Box & Whiskers Plot



Constituent: Thallium Analysis Run 7/19/2023 9:33 AM View: Descriptive  
 Plant Greene County Client: Southern Company Data: Greene County AP

FIGURE C.

# Outlier Summary

Plant Greene County Client: Southern Company Data: Greene County AP Printed 7/17/2023, 11:24 AM

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GC-AP-MW-26 Fluoride (mg/L)  
GC-AP-MW-27 Fluoride (mg/L)  
GC-AP-MW-28 Fluoride (mg/L)  
GC-AP-MW-13 Selenium (mg/L)

9/20/2016	0.01 (o)	0.021 (o)	
3/13/2017	0.31 (o)		
5/9/2017	0.25 (o)		
6/27/2017	0.22 (o)		
8/29/2017	0.22 (o)		
4/6/2022		0.111 (o)	

FIGURE D.

# Interwell Prediction Limits - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 7/14/2023, 2:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.1015	n/a	5/16/2023	0.187	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	5/24/2023	2.3	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	5/17/2023	0.691	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	5/30/2023	0.306	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	5/31/2023	0.263	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	5/24/2023	1.82	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	5/23/2023	0.935	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	5/31/2023	2.09	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	5/17/2023	2.48	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	5/22/2023	1.49	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	5/17/2023	0.143	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	5/30/2023	0.402	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	5/30/2023	0.115	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	5/17/2023	0.515	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	5/30/2023	1.09	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	5/30/2023	0.794	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	5/30/2023	1.05	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	47.3	n/a	5/16/2023	105	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	47.3	n/a	5/24/2023	108	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-11	47.3	n/a	5/17/2023	57.8	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	47.3	n/a	5/30/2023	54.5	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	47.3	n/a	5/31/2023	65.1	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	47.3	n/a	5/24/2023	119	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	47.3	n/a	5/23/2023	92.5	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	47.3	n/a	5/31/2023	108	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	47.3	n/a	5/17/2023	147	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	47.3	n/a	5/22/2023	82.1	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	47.3	n/a	5/17/2023	204	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	47.3	n/a	5/17/2023	56.8	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	47.3	n/a	5/17/2023	111	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	47.3	n/a	5/30/2023	138	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	47.3	n/a	5/30/2023	140	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	47.3	n/a	5/30/2023	87	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	47.3	n/a	5/30/2023	91.1	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.8	n/a	5/16/2023	40.8	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-10	5.8	n/a	5/24/2023	13.5	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	5.8	n/a	5/17/2023	18.8	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-12	5.8	n/a	5/30/2023	11.7	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-14	5.8	n/a	5/24/2023	10	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-15	5.8	n/a	5/23/2023	8.99	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-16	5.8	n/a	5/31/2023	8.96	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-17	5.8	n/a	5/17/2023	10	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-18	5.8	n/a	5/22/2023	24.4	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-2	5.8	n/a	5/17/2023	9.92	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-21	5.8	n/a	5/30/2023	9.44	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-25	5.8	n/a	5/30/2023	19.9	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-3	5.8	n/a	5/17/2023	21.6	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-31	5.8	n/a	5/23/2023	7.44	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-5	5.8	n/a	5/17/2023	8.4	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-6	5.8	n/a	5/30/2023	39.4	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-7	5.8	n/a	5/30/2023	208	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-8	5.8	n/a	5/30/2023	76.6	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-9	5.8	n/a	5/30/2023	105	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	5/24/2023	0.303	Yes	141	n/a	n/a	69.5	n/a	n/a	0.00009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	5/30/2023	0.18	Yes	141	n/a	n/a	69.5	n/a	n/a	0.00009774	NP Inter (NDs) 1 of 2

# Interwell Prediction Limits - Significant Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 7/14/2023, 2:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	5/24/2023	0.258	Yes	141	n/a	n/a	69.5	n/a	n/a	0.00009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	5/31/2023	0.284	Yes	141	n/a	n/a	69.5	n/a	n/a	0.00009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	5/17/2023	0.535	Yes	141	n/a	n/a	69.5	n/a	n/a	0.00009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	5/22/2023	0.186	Yes	141	n/a	n/a	69.5	n/a	n/a	0.00009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	5/17/2023	0.24	Yes	141	n/a	n/a	69.5	n/a	n/a	0.00009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	5/30/2023	0.193	Yes	141	n/a	n/a	69.5	n/a	n/a	0.00009774	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-8	0.159	n/a	5/30/2023	0.179	Yes	141	n/a	n/a	69.5	n/a	n/a	0.00009774	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-12	6.8	3.78	5/30/2023	6.87	Yes	171	n/a	n/a	0	n/a	n/a	0.0001348	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	5/16/2023	578	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	5/24/2023	119	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	5/17/2023	150	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	5/30/2023	106	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	5/31/2023	162	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	5/24/2023	178	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	5/23/2023	131	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-17	103	n/a	5/17/2023	122	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	5/17/2023	689	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	5/17/2023	163	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	5/30/2023	210	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	5/30/2023	236	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	5/30/2023	135	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-1	182	n/a	5/16/2023	1050	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	182	n/a	5/24/2023	490	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	182	n/a	5/17/2023	354	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	182	n/a	5/30/2023	279	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-13	182	n/a	5/31/2023	333	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	182	n/a	5/24/2023	650	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	182	n/a	5/23/2023	410	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	182	n/a	5/31/2023	502	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	182	n/a	5/17/2023	648	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	182	n/a	5/22/2023	362	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	182	n/a	5/17/2023	1030	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	182	n/a	5/30/2023	237	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	182	n/a	5/30/2023	225	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	182	n/a	5/17/2023	349	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	182	n/a	5/17/2023	496	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-6	182	n/a	5/30/2023	818	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	182	n/a	5/30/2023	1000	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	182	n/a	5/30/2023	676	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	182	n/a	5/30/2023	646	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2



# Interwell Prediction Limits - All Results

Plant Greene County   Client: Southern Company   Data: Greene County AP   Printed 7/14/2023, 2:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.1015	n/a	5/16/2023	0.187	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	5/24/2023	2.3	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	5/17/2023	0.691	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	5/30/2023	0.306	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	5/31/2023	0.263	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	5/24/2023	1.82	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	5/23/2023	0.935	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	5/31/2023	2.09	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	5/17/2023	2.48	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	5/22/2023	1.49	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	5/17/2023	0.143	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	5/30/2023	0.402	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	5/30/2023	0.115	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-3	0.1015	n/a	5/17/2023	0.0456J	No	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-31	0.1015	n/a	5/23/2023	0.1015ND	No	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-32	0.1015	n/a	5/22/2023	0.1015ND	No	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-33	0.1015	n/a	5/22/2023	0.1015ND	No	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	5/17/2023	0.515	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	5/30/2023	1.09	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1015	n/a	5/30/2023	0.0498J	No	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	5/30/2023	0.794	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	5/30/2023	1.05	Yes	140	n/a	n/a	94.29	n/a	n/a	0.00009888	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	47.3	n/a	5/16/2023	105	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	47.3	n/a	5/24/2023	108	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-11	47.3	n/a	5/17/2023	57.8	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	47.3	n/a	5/30/2023	54.5	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	47.3	n/a	5/31/2023	65.1	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	47.3	n/a	5/24/2023	119	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	47.3	n/a	5/23/2023	92.5	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	47.3	n/a	5/31/2023	108	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	47.3	n/a	5/17/2023	147	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	47.3	n/a	5/22/2023	82.1	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	47.3	n/a	5/17/2023	204	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-21	47.3	n/a	5/30/2023	36.1	No	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-25	47.3	n/a	5/30/2023	13.9	No	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	47.3	n/a	5/17/2023	56.8	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-31	47.3	n/a	5/23/2023	6.75	No	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-32	47.3	n/a	5/22/2023	10.2	No	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-33	47.3	n/a	5/22/2023	2.52	No	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	47.3	n/a	5/17/2023	111	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	47.3	n/a	5/30/2023	138	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	47.3	n/a	5/30/2023	140	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	47.3	n/a	5/30/2023	87	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	47.3	n/a	5/30/2023	91.1	Yes	147	n/a	n/a	0	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.8	n/a	5/16/2023	40.8	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-10	5.8	n/a	5/24/2023	13.5	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-11	5.8	n/a	5/17/2023	18.8	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-12	5.8	n/a	5/30/2023	11.7	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-13	5.8	n/a	5/31/2023	4.19	No	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-14	5.8	n/a	5/24/2023	10	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-15	5.8	n/a	5/23/2023	8.99	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-16	5.8	n/a	5/31/2023	8.96	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-17	5.8	n/a	5/17/2023	10	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-18	5.8	n/a	5/22/2023	24.4	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2
Chloride (mg/L)	GC-AP-MW-2	5.8	n/a	5/17/2023	9.92	Yes	147	0.7467	0.4772	3.401	None	ln(x)	0.000342	Param Inter 1 of 2



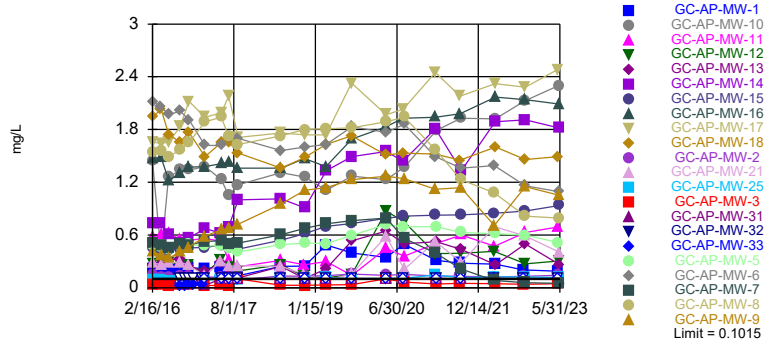
# Interwell Prediction Limits - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 7/14/2023, 2:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	5/16/2023	578	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	5/24/2023	119	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	5/17/2023	150	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	5/30/2023	106	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	5/31/2023	162	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	5/24/2023	178	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	5/23/2023	131	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-16	103	n/a	5/31/2023	42.8	No	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-17	103	n/a	5/17/2023	122	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-18	103	n/a	5/22/2023	19.1	No	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	5/17/2023	689	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-21	103	n/a	5/30/2023	89.4	No	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-25	103	n/a	5/30/2023	88.1	No	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-3	103	n/a	5/17/2023	19.6	No	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-31	103	n/a	5/23/2023	3	No	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-32	103	n/a	5/22/2023	2.5	No	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-33	103	n/a	5/22/2023	15.5	No	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	5/17/2023	163	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	5/30/2023	210	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	5/30/2023	236	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-8	103	n/a	5/30/2023	69.5	No	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-9	103	n/a	5/30/2023	135	Yes	147	n/a	n/a	20.41	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-1	182	n/a	5/16/2023	1050	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	182	n/a	5/24/2023	490	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	182	n/a	5/17/2023	354	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	182	n/a	5/30/2023	279	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-13	182	n/a	5/31/2023	333	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	182	n/a	5/24/2023	650	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	182	n/a	5/23/2023	410	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	182	n/a	5/31/2023	502	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	182	n/a	5/17/2023	648	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	182	n/a	5/22/2023	362	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	182	n/a	5/17/2023	1030	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	182	n/a	5/30/2023	237	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	182	n/a	5/30/2023	225	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	182	n/a	5/17/2023	349	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-31	182	n/a	5/23/2023	47.3	No	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-32	182	n/a	5/22/2023	51.3	No	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-33	182	n/a	5/22/2023	66	No	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	182	n/a	5/17/2023	496	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-6	182	n/a	5/30/2023	818	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	182	n/a	5/30/2023	1000	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	182	n/a	5/30/2023	676	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	182	n/a	5/30/2023	646	Yes	147	n/a	n/a	15.65	n/a	n/a	0.00009089	NP Inter (normality) 1 of 2

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15,...

Prediction Limit  
Interwell Non-parametric

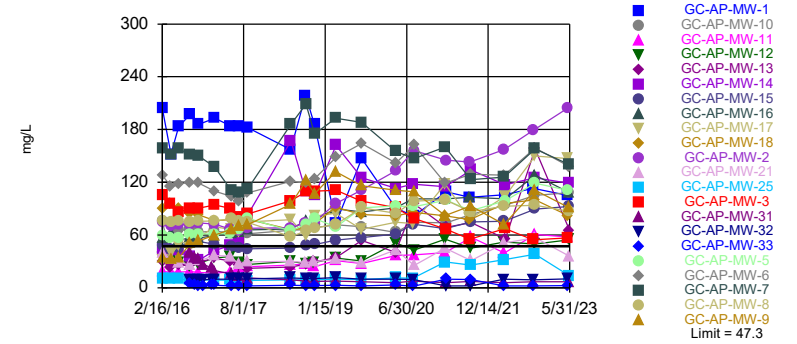


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 140 background values. 94.29% NDs. Annual per-constituent alpha = 0.004341. Individual comparison alpha = 0.00009888 (1 of 2). Comparing 22 points to limit.

Constituent: Boron Analysis Run 7/14/2023 2:12 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15,...

Prediction Limit  
Interwell Non-parametric

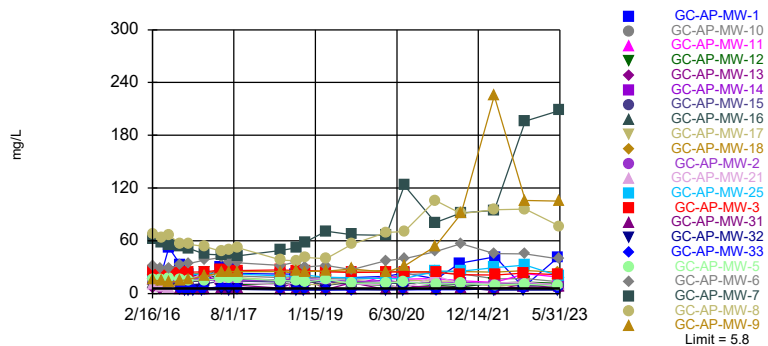


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 147 background values. Annual per-constituent alpha = 0.003992. Individual comparison alpha = 0.00009089 (1 of 2). Comparing 22 points to limit.

Constituent: Calcium Analysis Run 7/14/2023 2:12 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16,...

Prediction Limit  
Interwell Parametric

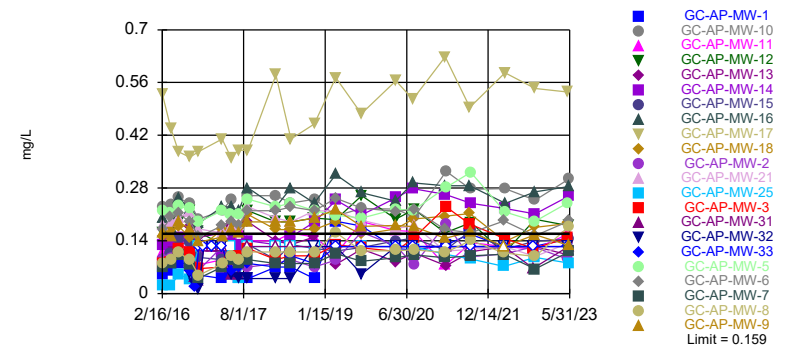


Background Data Summary (based on natural log transformation): Mean=0.7467, Std. Dev.=0.4772, n=147, 3.401% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 11.3, critical = 14.07. Kappa = 2.119 (c=7, w=22, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000342. Comparing 22 points to limit.

Constituent: Chloride Analysis Run 7/14/2023 2:13 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-5,...

Prediction Limit  
Interwell Non-parametric

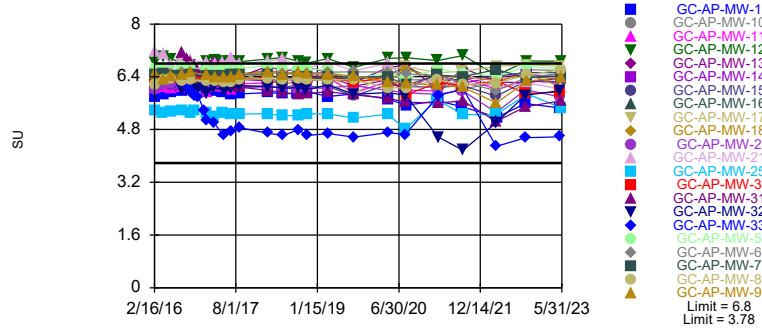


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 141 background values. 69.5% NDs. Annual per-constituent alpha = 0.004291. Individual comparison alpha = 0.00009774 (1 of 2). Comparing 22 points to limit.

Constituent: Fluoride Analysis Run 7/14/2023 2:13 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limits: GC-AP-MW-12

### Prediction Limit Interwell Non-parametric



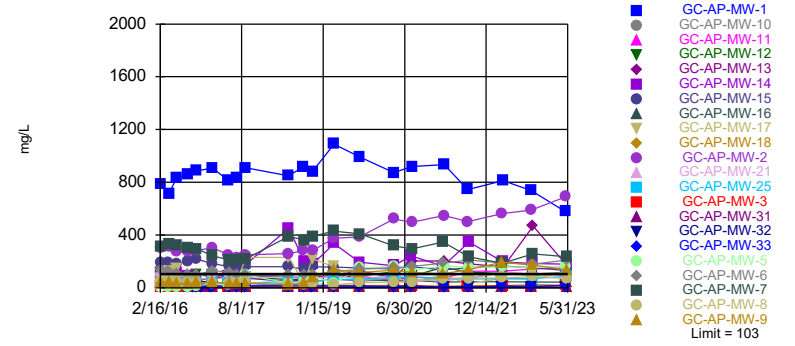
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 171 background values. Annual per-constituent alpha = 0.005924. Individual comparison alpha = 0.0001348 (1 of 2). Comparing 22 points to limit.

Constituent: pH Analysis Run 7/14/2023 2:13 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15,...

### Prediction Limit Interwell Non-parametric

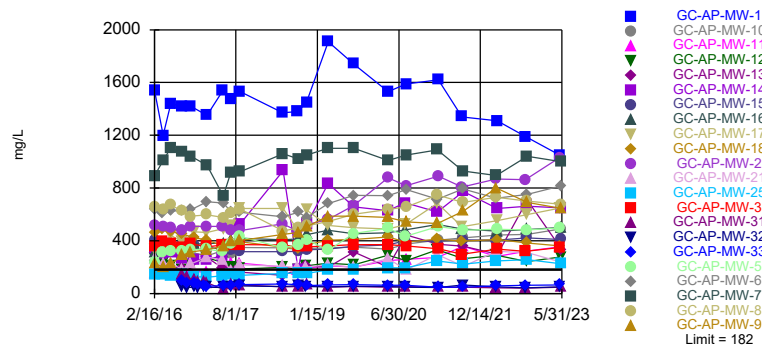


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 147 background values. 20.41% NDs. Annual per-constituent alpha = 0.003992. Individual comparison alpha = 0.00009089 (1 of 2). Comparing 22 points to limit.

Constituent: Sulfate Analysis Run 7/14/2023 2:13 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15,...

### Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 147 background values. 15.65% NDs. Annual per-constituent alpha = 0.003992. Individual comparison alpha = 0.00009089 (1 of 2). Comparing 22 points to limit.

Constituent: TDS Analysis Run 7/14/2023 2:13 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP



# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-9	GC-AP-MW-13	GC-AP-MW-21	GC-AP-MW-1	GC-AP-MW-15
8/23/2021									
8/24/2021		1.23		1.93	1.14				
8/25/2021	0.393		1.33			0.438	0.288		0.83
3/28/2022									
3/29/2022	0.416	1.08			0.71				0.848
3/30/2022							0.696		
4/4/2022			1.89	1.92				0.269	
4/5/2022									
4/6/2022						0.26			
10/5/2022								0.202	
10/17/2022	0.272					0.499	0.59		
10/18/2022		0.815	1.91	2.13	1.15				0.874
10/19/2022									
5/16/2023								0.187	
5/17/2023									
5/22/2023									
5/23/2023									0.935
5/24/2023			1.82	2.3					
5/30/2023	0.306	0.794			1.05		0.402		
5/31/2023						0.263			

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-11	GC-AP-MW-5	GC-AP-MW-3	GC-AP-MW-16	GC-AP-MW-2	GC-AP-MW-6	GC-AP-MW-23 (bg)
2/16/2016									
2/17/2016	1.66	1.94	0.581	0.478	0.0288 (J)	1.47	0.146	2.12	0.0271 (J)
4/12/2016		2.03		0.467	0.0293 (J)			2.06	<0.1015
4/13/2016	1.64		0.61			1.48	0.125		
5/31/2016			0.615	0.443				1.97	
6/1/2016	1.66	1.74			0.0279 (J)	1.22	0.114		<0.1015
8/15/2016	1.83	1.66			0.0332 (J)	1.31	0.128		
8/16/2016			0.554						<0.1015
8/17/2016				0.477				2.01	
9/19/2016									
9/20/2016									
10/11/2016				0.489	0.0328 (J)		0.129	1.91	0.024 (J)
10/12/2016	2.12	1.77	0.537			1.37			
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	1.94	1.49		0.475	0.0262 (J)	1.38	0.124	1.62	0.0333 (J)
1/25/2017			0.562						
1/26/2017									
5/9/2017			0.528	0.479	0.0298 (J)		0.121		<0.1015
5/10/2017	1.99	1.65				1.41		1.62	
6/27/2017	2.18	1.66				1.43			<0.1015
6/28/2017			0.313	0.448	0.0226 (J)		0.111	1.71	
8/29/2017			0.241					1.7	<0.1015
8/30/2017	1.71	1.53		0.407	<0.1015	1.36	0.0915 (J)		
6/4/2018					0.0296 (J)		0.134		
6/5/2018	1.76	1.36	0.311	0.489		1.36		1.56	<0.1015
6/6/2018									
11/5/2018			0.262						
11/6/2018	1.74	1.48		0.508	0.0268 (J)	1.47	0.131		
11/7/2018								1.6	<0.1015
3/26/2019	1.74	1.63				1.38		1.63	<0.1015
3/27/2019			0.298	0.502	0.0316 (J)		0.138		
9/9/2019	2.33	1.73			0.035 (J)		0.157		
9/10/2019			0.141			1.69		1.83	<0.1015
9/11/2019				0.595					
4/20/2020					<0.1015	1.83			
4/21/2020	1.97	1.51		0.72			0.14	1.77	<0.1015
4/22/2020			0.447						
8/11/2020	2.03					1.93			
8/12/2020		1.53		0.695					<0.1015
8/17/2020					0.0636 (J)		0.152		
8/18/2020			0.358						
8/19/2020								1.86	
3/9/2021	2.45	1.52				1.94		1.49	
3/10/2021			0.502						<0.1015
3/15/2021									
3/16/2021				0.694	0.0445 (J)		0.134		
8/17/2021	2.18	1.45			0.0518 (J)	1.98	0.131		
8/18/2021									



# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-11	GC-AP-MW-5	GC-AP-MW-3	GC-AP-MW-16	GC-AP-MW-2	GC-AP-MW-6	GC-AP-MW-23 (bg)
8/23/2021				0.628					
8/24/2021								1.36	<0.1015
8/25/2021			0.601						
3/28/2022							0.125		<0.1015
3/29/2022								1.39	
3/30/2022			0.472						
4/4/2022	2.32			0.615					
4/5/2022					0.0453 (J)				
4/6/2022		1.6				2.17			
10/5/2022					0.0404 (J)		0.132		
10/17/2022		1.46	0.63	0.599					<0.1015
10/18/2022	2.28					2.14		1.16	
10/19/2022									
5/16/2023									<0.1015
5/17/2023	2.48		0.691	0.515	0.0456 (J)		0.143		
5/22/2023		1.49							
5/23/2023									
5/24/2023									
5/30/2023								1.09	
5/31/2023						2.09			

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-7	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-29 (bg)	GC-AP-MW-31	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-30 (bg)	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	0.503	<0.1015	0.0922 (J)						
4/12/2016		<0.1015	0.0935 (J)						
4/13/2016	0.478								
5/31/2016	0.452								
6/1/2016		<0.1015	0.0826 (J)						
8/15/2016									
8/16/2016		<0.1015		<0.1015	<0.1015	0.0268 (J)	<0.1015	<0.1015	
8/17/2016	0.492		0.092 (J)						<0.1015
9/19/2016					<0.1015	0.0225 (J)	<0.1015		
9/20/2016				<0.1015				<0.1015	<0.1015
10/11/2016		<0.1015	0.0976 (J)	<0.1015	<0.1015	0.0304 (J)	<0.1015	<0.1015	
10/12/2016	0.487								<0.1015
11/14/2016					<0.1015	0.0355 (J)	<0.1015		
11/15/2016				0.0229 (J)				<0.1015	<0.1015
1/3/2017					<0.1015	0.0304 (J)	<0.1015		
1/4/2017				<0.1015				<0.1015	<0.1015
1/23/2017								<0.1015	0.0217 (J)
1/24/2017		<0.1015	0.0877 (J)		0.0282 (J)		<0.1015		
1/25/2017	0.529					<0.1015			
1/26/2017				<0.1015					
5/9/2017			0.0953 (J)	<0.1015				<0.1015	<0.1015
5/10/2017	0.533	<0.1015			<0.1015	<0.1015	<0.1015		
6/27/2017				<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
6/28/2017	0.501	<0.1015	0.0835 (J)						
8/29/2017	0.51	<0.1015	0.0914 (J)						<0.1015
8/30/2017				<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	
6/4/2018									
6/5/2018	0.605	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
6/6/2018			0.102						
11/5/2018							<0.1015		
11/6/2018			0.0995 (J)	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015
11/7/2018	0.677	<0.1015							
3/26/2019	0.727	<0.1015		<0.1015				<0.1015	<0.1015
3/27/2019			0.113		<0.1015	<0.1015	<0.1015		
9/9/2019									
9/10/2019	0.764	<0.1015	0.105						
9/11/2019				<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
4/20/2020									
4/21/2020	0.793			<0.1015				<0.1015	<0.1015
4/22/2020		<0.1015	0.104		<0.1015	<0.1015	<0.1015		
8/11/2020			0.11		<0.1015				
8/12/2020		<0.1015				<0.1015	<0.1015		
8/17/2020									
8/18/2020				<0.1015				<0.1015	<0.1015
8/19/2020	0.561								
3/9/2021	0.397								
3/10/2021		<0.1015	0.146						
3/15/2021				<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
3/16/2021									
8/17/2021									
8/18/2021				<0.1015				<0.1015	<0.1015

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-7	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-29 (bg)	GC-AP-MW-31	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-30 (bg)	GC-AP-MW-26 (bg)
8/23/2021					<0.1015	<0.1015	<0.1015		
8/24/2021	0.216	<0.1015	0.115						
8/25/2021									
3/28/2022				<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	
3/29/2022	0.0842 (J)		0.122						
3/30/2022									
4/4/2022		<0.1015							<0.1015
4/5/2022									
4/6/2022									
10/5/2022					<0.1015	<0.1015	<0.1015		
10/17/2022		<0.1015							
10/18/2022	0.0589 (J)		0.124						
10/19/2022				<0.1015				<0.1015	<0.1015
5/16/2023		<0.1015							
5/17/2023									
5/22/2023						<0.1015	<0.1015		
5/23/2023					<0.1015				
5/24/2023									
5/30/2023	0.0498 (J)		0.115	<0.1015				<0.1015	<0.1015
5/31/2023									

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-27 (bg)GC-AP-MW-28 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	<0.1015	<0.1015
9/19/2016		
9/20/2016	<0.1015	<0.1015
10/11/2016		
10/12/2016	0.02 (J)	<0.1015
11/14/2016		
11/15/2016	<0.1015	<0.1015
1/3/2017		
1/4/2017	<0.1015	<0.1015
1/23/2017	0.0287 (J)	
1/24/2017		0.0331 (J)
1/25/2017		
1/26/2017		
5/9/2017	<0.1015	<0.1015
5/10/2017		
6/27/2017	<0.1015	<0.1015
6/28/2017		
8/29/2017	<0.1015	
8/30/2017		<0.1015
6/4/2018		
6/5/2018	<0.1015	<0.1015
6/6/2018		
11/5/2018		
11/6/2018	<0.1015	<0.1015
11/7/2018		
3/26/2019	<0.1015	<0.1015
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	<0.1015	<0.1015
4/20/2020		
4/21/2020	<0.1015	<0.1015
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	<0.1015	<0.1015
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	<0.1015	<0.1015
3/16/2021		
8/17/2021		
8/18/2021	<0.1015	<0.1015

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	<0.1015	<0.1015
3/29/2022		
3/30/2022		
4/4/2022		
4/5/2022		
4/6/2022		
10/5/2022		
10/17/2022		
10/18/2022		
10/19/2022	<0.1015	<0.1015
5/16/2023		
5/17/2023		
5/22/2023		
5/23/2023		
5/24/2023		
5/30/2023	<0.1015	<0.1015
5/31/2023		

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-21	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-1	GC-AP-MW-18
2/16/2016	33.9	29.8	44.4	40.4	75.9	76.3	34.6		
2/17/2016								204	89.6
4/12/2016		23.3	43.2						96.2
4/13/2016	32.5			32.2	74.1	30.5	32.2	152	
5/31/2016		25.9	43			65.9	28.8		
6/1/2016	33.9			29.3	76.4			183	90.2
8/15/2016								197	84.4
8/16/2016		25.5		25.4		65.6	24		
8/17/2016	50.3		35.9		74.2				
9/19/2016									
9/20/2016									
10/11/2016								186	
10/12/2016	53.3	29.5	31.1	30.7	75.7	63.4	27.8		82.9
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								193	76.4
1/25/2017	59.9	33.6	42.7	36.8	76.1	64.2	33.7		
1/26/2017									
5/9/2017		30.4	48.1	36.1			35.5	184	
5/10/2017	66.5				78.6	62.6			77.4
6/27/2017								184	75.4
6/28/2017	69.8	26	55	26.9	76.4	60.8	28		
8/29/2017	72	22.3	83.6	29.4	74.1	61.4	26.4		
8/30/2017								182	78
6/4/2018								157	
6/5/2018	95.1				58	65.5			66.3
6/6/2018		23.7	167	30.2			30.1		
9/10/2018				28.8				219	
9/11/2018	122	26.8			64.9	66.1	27.4		
9/12/2018			109						67.8
11/5/2018		29.4		29.7			28.8		
11/6/2018								186	72.7
11/7/2018	107		105		68.1	68.5			
3/26/2019	132	34.1		32.4	72		33.7		91.5
3/27/2019			162			71.8		73.8	
9/9/2019									83.2
9/10/2019	116		125	28.4	91	69.3	30.5	147	
9/11/2019		53.9							
4/20/2020		40.3							
4/21/2020	111		113	43.1	84.8		51	90.5	81.8
4/22/2020						62.9			
8/11/2020			118						
8/12/2020									85.9
8/17/2020								81.5	
8/18/2020	109	95.3		25.5		74.4	42.9		
8/19/2020					98.6				
3/9/2021	82.1		115		100				82
3/10/2021				44.9			55.1		
3/15/2021		68.9				73.8			

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-21	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-1	GC-AP-MW-18
3/16/2021								109	
8/17/2021								103	77.4
8/18/2021									
8/23/2021									
8/24/2021	93.1				86.4	83.4			
8/25/2021		74.2	134	31			45.2		
3/28/2022									
3/29/2022	72.1				92.8		52		
3/30/2022				51					
4/4/2022			117			93.7		106	
4/5/2022									
4/6/2022		55.5							96.1
10/5/2022								113	
10/17/2022		158		57			49.799999		99.900002
10/18/2022	111		125		93.800003	105			
10/19/2022									
5/16/2023								105	
5/17/2023									
5/22/2023									82.099998
5/23/2023									
5/24/2023			119			108			
5/30/2023	91.099998			36.099998	87		54.5		
5/31/2023		65.099998							





# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-3	GC-AP-MW-17	GC-AP-MW-16	GC-AP-MW-11	GC-AP-MW-15	GC-AP-MW-23 (bg)	GC-AP-MW-2	GC-AP-MW-24 (bg)	GC-AP-MW-6
3/16/2021	66.6						145		
8/17/2021	55.4	78.3	103				143		
8/18/2021									
8/23/2021									
8/24/2021						26.3		36.5	129
8/25/2021				57.6	74.8				
3/28/2022						26	157		
3/29/2022					75.7				128
3/30/2022				39.6					
4/4/2022		104						37	
4/5/2022	67.4								
4/6/2022			101						
10/5/2022	54.5						179		
10/17/2022				60.599998		23.1		31.6	
10/18/2022		150	128		89.400002				159
10/19/2022									
5/16/2023						25.4		47.299999	
5/17/2023	56.799999	147		57.799999			204		
5/22/2023									
5/23/2023					92.5				
5/24/2023									
5/30/2023									138
5/31/2023			108						

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-7	GC-AP-MW-25	GC-AP-MW-5	GC-AP-MW-32	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-28 (bg)
2/16/2016									
2/17/2016	158	10.2	59.8						
4/12/2016		10	56.1						
4/13/2016	151								
5/31/2016	158		56.6						
6/1/2016		9.87							
8/15/2016									
8/16/2016				9.33	1.24	39.5	2.02	5.54	
8/17/2016	152	8.88	61						7.74
9/19/2016				9.26		34.5		3.01	
9/20/2016					1.11		1.22		2.43
10/11/2016		9.22	61.3	9.31	1.22	32.4	1.48	2.74	
10/12/2016	150								2.46
11/14/2016				9.17		26.5		2.47	
11/15/2016					1.34		1.36		2.28
1/3/2017				9.66		22.6		2.94	
1/4/2017					2.39		1.11		2.7
1/23/2017					1.83				
1/24/2017		8.72	61	9.67		19.5			4.19
1/25/2017	137							2.91	
1/26/2017							1.03		
5/9/2017		8.56	61.7		0.823		0.289 (J)		3.28
5/10/2017	111			9.81		15.7		2.27	
6/27/2017				9.88	0.956	13.8	0.292 (J)	2.2	3.76
6/28/2017	108	7.16	66.1						
8/29/2017	113	8.32							
8/30/2017			78.9	10.3	1.04	11.1	0.336 (J)	2.26	2.31
6/4/2018									
6/5/2018	186		64.8	11.4	1.18	9.12	0.2 (J)	2.97	2.76
6/6/2018		9.05							
9/10/2018									
9/11/2018	209		72.2	10.5	1.5	7.5	0.171 (J)	2.6	2.04
9/12/2018		8.98							
11/5/2018				10.5					
11/6/2018		9.21	78.9		1.64	7.39	0.193 (J)	2.42	2
11/7/2018	175								
3/26/2019	193				1.33		0.223 (J)		2.13
3/27/2019		9.77	69.1	11.6		7.65		2.75	
9/9/2019									
9/10/2019	188	9.28							
9/11/2019			90.8	9.95	0.925	6.96	0.158 (J)	2.17	1.98
4/20/2020									
4/21/2020	155		93		0.864		0.287 (J)		2.41
4/22/2020		11.3		9.87		5.92		3.15	
8/11/2020		10.7				7.46			
8/12/2020			92.2	9.48				1.78	
8/17/2020									
8/18/2020					0.926		0.231 (J)		2.23
8/19/2020	147								
3/9/2021	160								
3/10/2021		29.3							
3/15/2021				2.02	0.646	5.9	0.239 (J)	9.77	1.73



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-27 (bg)GC-AP-MW-26 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	1.1	5.88
9/19/2016		
9/20/2016	0.771	5.95
10/11/2016		
10/12/2016	0.711	6.1
11/14/2016		
11/15/2016	0.641	6.28
1/3/2017		
1/4/2017	0.797	4.97
1/23/2017	0.655	5.17
1/24/2017		
1/25/2017		
1/26/2017		
5/9/2017	0.538	15.7
5/10/2017		
6/27/2017	0.413 (J)	14.2
6/28/2017		
8/29/2017	0.504	11.1
8/30/2017		
6/4/2018		
6/5/2018	0.339 (J)	3.93
6/6/2018		
9/10/2018		
9/11/2018	0.776	3.76
9/12/2018		
11/5/2018		
11/6/2018	0.746	4.81
11/7/2018		
3/26/2019	0.526	3.18
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	0.638	3.98
4/20/2020		
4/21/2020	1.15	3.83
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	0.884	4.58
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	0.745	4.67

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-26 (bg)
3/16/2021		
8/17/2021		
8/18/2021	1.11	4.84
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	1.37	
3/29/2022		
3/30/2022		
4/4/2022		6.7
4/5/2022		
4/6/2022		
10/5/2022		
10/17/2022		
10/18/2022		
10/19/2022	1.02	7.91
5/16/2023		
5/17/2023		
5/22/2023		
5/23/2023		
5/24/2023		
5/30/2023	1.27	8.37
5/31/2023		

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-21	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-1	GC-AP-MW-18
2/16/2016	15.6	6.52	16.4	9.95	67.9	18.4	10.8		
2/17/2016								16	22.3
4/12/2016		4.47	15.9						22.1
4/13/2016	14.3			7.33	64.1	19	8.2	21.5	
5/31/2016		10.8	13.6			19.2	7.74		
6/1/2016	12.6			6.97	66.3			52.5	22
8/15/2016								33.3	22.4
8/16/2016		16.6		12		17.7	12.5		
8/17/2016	14.4		12.8		56.7				
9/19/2016									
9/20/2016									
10/11/2016								22.2	
10/12/2016	16.4	18.5	16.3	15.4	56.1	16.8	15.7		22.1
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								18.4	23.2
1/25/2017	20	22	16.4	24.7	53.6	18.6	24.4		
1/26/2017									
5/9/2017		10	19	17			15	30	
5/10/2017	24				48	22			26
6/27/2017								29	25
6/28/2017	25	9.4	17	11	49	20	12		
8/29/2017	25	9.3	17	12	52	20	10		
8/30/2017								23	25
6/4/2018								22	
6/5/2018	25				38	18			25
6/6/2018		6.1	14	9.7			11		
9/10/2018				12				22	
9/11/2018	26	14			37	19	12		
9/12/2018			14						23
11/5/2018		18		16			17		
11/6/2018								17	26
11/7/2018	25		15		41	19			
3/26/2019	25.3	4.7		17.2	39.7		14.5		25.4
3/27/2019			14.9			17.1		18	
9/9/2019									25.6
9/10/2019	28		13.5	11	56.1	16.5	10.9	18.1	
9/11/2019		12.3							
4/20/2020		4.7							
4/21/2020	24.2		14.8	10.1	69.5		9.49	19.5	26.3
4/22/2020						17.6			
8/11/2020			12.7						
8/12/2020									24.5
8/17/2020								23.2	
8/18/2020	31.4	8.24		5.54		21.3	6.46		
8/19/2020					70.5				
3/9/2021	53.9		10.4		106				25.2
3/10/2021				20.4			9.3		
3/15/2021		7.68				23.2			

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-21	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-1	GC-AP-MW-18
3/16/2021								16.6	
8/17/2021								34.4	25.1
8/18/2021									
8/23/2021									
8/24/2021	90.7				90.8	22.4			
8/25/2021		6.37	11.5	10.4			7.43		
3/28/2022									
3/29/2022	225				95.4		11.8		
3/30/2022				12.1					
4/4/2022			9.875 (D)			16.8 (D)		41.75 (D)	
4/5/2022									
4/6/2022		3.71							24.35 (D)
10/5/2022								7.1	
10/17/2022		12		13			12.9		26
10/18/2022	106		10.4		96.099998	17.200001			
10/19/2022									
5/16/2023								40.799999	
5/17/2023									
5/22/2023									24.4
5/23/2023									
5/24/2023			10			13.5			
5/30/2023	105			9.44	76.599998		11.7		
5/31/2023		4.19							





# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-3	GC-AP-MW-17	GC-AP-MW-16	GC-AP-MW-11	GC-AP-MW-15	GC-AP-MW-23 (bg)	GC-AP-MW-2	GC-AP-MW-24 (bg)	GC-AP-MW-6
3/16/2021	24.4						11.6		
8/17/2021	21.3	14.3	10.4				12.7		
8/18/2021									
8/23/2021									
8/24/2021						1.19		3.42	56.6
8/25/2021				14.4	10.3				
3/28/2022						1.09	11.5		
3/29/2022					10.3				45.3
3/30/2022				12.7					
4/4/2022		8.06 (D)						3.09	
4/5/2022	21.1 (D)								
4/6/2022			11.8 (D)						
10/5/2022	23.1						12.3		
10/17/2022				22.4		0.973 (J)		3.19	
10/18/2022		10.7	10.1		8.54				45
10/19/2022									
5/16/2023						1.08		3.74	
5/17/2023	21.6	10		18.799999			9.92		
5/22/2023									
5/23/2023					8.99				
5/24/2023									
5/30/2023									39.400002
5/31/2023			8.96						

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-7	GC-AP-MW-25	GC-AP-MW-5	GC-AP-MW-32	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-28 (bg)
2/16/2016									
2/17/2016	62.7	22.9	16.4						
4/12/2016		22.2	16.6						
4/13/2016	57.8								
5/31/2016	55.6		16.8						
6/1/2016		22.3							
8/15/2016									
8/16/2016				4.24	2.54	5.32	2.21	4.88	
8/17/2016	53.3	22.1	16.4						1.77
9/19/2016				4.13		5.29		4.45	
9/20/2016					2.51		2.12		1.56
10/11/2016		21.8	15.2	4.07	2.34	5.26	2.24	4.36	
10/12/2016	51.2								1.54
11/14/2016				4.08		5.28		4.42	
11/15/2016					2.1		6.65		1.53
1/3/2017				4.06		5.18		5.18	
1/4/2017					2.44		2.15		1.58
1/23/2017					2.37				
1/24/2017		21.8	15.1	4.4		5.41			1.71
1/25/2017	44.8							5.66	
1/26/2017							2.31		
5/9/2017		23	17		2.8		2.3		2.1
5/10/2017	44			4.4		5.8		8	
6/27/2017				4	2.1	5.4	2.1	7.2	2
6/28/2017	45	22	17						
8/29/2017	43	22							
8/30/2017			17	4.8	3	6	2.8	6.9	1.5 (J)
6/4/2018									
6/5/2018	49		15	3.8	2.3	5.2	1.8 (J)	4.2	1.2 (J)
6/6/2018		20							
9/10/2018									
9/11/2018	52		14	4.1	1.5 (J)	5.5	<2	4.2	<2
9/12/2018		20							
11/5/2018				3.9					
11/6/2018		21	13		1.4 (J)	5.1	<2	4.5	<2
11/7/2018	58								
3/26/2019	71				2.42		1.07		1.2
3/27/2019		18.4	16.1	3.9		5.26		4.33	
9/9/2019									
9/10/2019	67	17.7							
9/11/2019			11.6	4.21	3.72	5.31	1.19	4.16	1.26
4/20/2020									
4/21/2020	66.2		12.3		3.89		1.09		1.32
4/22/2020		17.1		4		5.37		5.66	
8/11/2020		16.7				5.45			
8/12/2020			13	4.17				4.46	
8/17/2020									
8/18/2020					3.8		1.05		1.38
8/19/2020	123								
3/9/2021	80.7								
3/10/2021		25.3							
3/15/2021				5.57	4.38	5.47	1.25	4.18	1.27



# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-27 (bg)GC-AP-MW-26 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	1.78	2.44
9/19/2016		
9/20/2016	1.61	2.54
10/11/2016		
10/12/2016	1.51	2.67
11/14/2016		
11/15/2016	1.5	2.94
1/3/2017		
1/4/2017	1.53	2.92
1/23/2017	1.62	3.21
1/24/2017		
1/25/2017		
1/26/2017		
5/9/2017	2.2	2.5
5/10/2017		
6/27/2017	1.9 (J)	3
6/28/2017		
8/29/2017	2	3.6
8/30/2017		
6/4/2018		
6/5/2018	1.9 (J)	2.2
6/6/2018		
9/10/2018		
9/11/2018	<2	1.5 (J)
9/12/2018		
11/5/2018		
11/6/2018	1.9 (J)	2.5
11/7/2018		
3/26/2019	2.18	2
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	1.7	2.34
4/20/2020		
4/21/2020	1.9	2.04
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	1.63	2.16
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	2.46	2.83

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-26 (bg)
3/16/2021		
8/17/2021		
8/18/2021	2.45	2.97
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	1.96	
3/29/2022		
3/30/2022		
4/4/2022		2.93
4/5/2022		
4/6/2022		
10/5/2022		
10/17/2022		
10/18/2022		
10/19/2022	2.01	2.84
5/16/2023		
5/17/2023		
5/22/2023		
5/23/2023		
5/24/2023		
5/30/2023	2.05	2.89
5/31/2023		



# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-21	GC-AP-MW-9	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-16	GC-AP-MW-15
8/18/2021									
8/23/2021									
8/24/2021		0.164				0.141	0.277		
8/25/2021	0.117		0.188	0.111	0.239				0.167
3/28/2022									
3/29/2022		<0.125	0.107 (J)			0.108 (J)			0.117 (J)
3/30/2022	<0.125								
4/4/2022					0.226 (D)		0.2785 (D)		
4/5/2022									
4/6/2022				<0.125				0.2395 (D)	
10/5/2022									
10/17/2022	0.0988 (J)		0.197	<0.125					
10/18/2022		0.156			0.211	0.0981 (J)	0.248	0.27	0.139
10/19/2022									
5/16/2023									
5/17/2023									
5/22/2023									
5/23/2023									0.144
5/24/2023					0.258		0.303		
5/30/2023	0.135	0.127	0.18			0.179			
5/31/2023				0.102 (J)				0.284	

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-24 (bg)	GC-AP-MW-18	GC-AP-MW-23 (bg)	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-2	GC-AP-MW-11	GC-AP-MW-7
2/16/2016									
2/17/2016	0.02 (J)	0.02 (J)	0.15 (J)	0.08 (J)	0.22 (J)	0.17 (J)	0.09 (J)	0.11 (J)	0.07 (J)
4/12/2016	0.021 (J)	0.026 (J)	0.168 (J)	0.077 (J)	0.214 (J)	0.203 (J)			
4/13/2016							0.092 (J)	0.119 (J)	0.081 (J)
5/31/2016					0.232 (J)	0.212 (J)		0.134 (J)	0.103 (J)
6/1/2016	0.051 (J)	0.057 (J)	0.178 (J)	0.101 (J)			0.108 (J)		
8/15/2016			0.149 (J)				0.105 (J)		
8/16/2016		0.046 (J)		0.093 (J)				0.116 (J)	
8/17/2016	0.037 (J)				0.225 (J)	0.19 (J)			0.078 (J)
9/19/2016									
9/20/2016									
10/11/2016	<0.125	<0.125		0.059 (J)	0.19 (J)	0.15 (J)	0.062 (J)		
10/12/2016			0.12 (J)					0.076 (J)	0.041 (J)
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
3/13/2017									
3/14/2017	<0.125	<0.125	0.17	0.07 (J)	0.22	0.18	<0.125	0.09 (J)	0.07 (J)
3/15/2017									
5/9/2017	<0.125			0.08 (J)	0.21		0.07 (J)	0.11	
5/10/2017		<0.125	0.17			0.19			0.09 (J)
6/27/2017			0.18	0.08 (J)					
6/28/2017	0.04 (J)	<0.125			0.21	0.18	0.09 (J)	0.17	0.08 (J)
8/29/2017	<0.125	0.04 (J)		0.1		0.22		0.14	0.09 (J)
8/30/2017			0.21		0.25		0.07 (J)		
2/27/2018		<0.125		0.08 (J)	0.23	0.22	0.08 (J)	0.14	0.08 (J)
2/28/2018	<0.125		0.17						
6/4/2018							0.09 (J)		
6/5/2018		0.04 (J)	0.17	0.09 (J)	0.24	0.23		0.16	0.08 (J)
6/6/2018	<0.125								
11/5/2018								0.15	
11/6/2018	<0.125		0.17		0.22		0.07 (J)		
11/7/2018		<0.125		0.08 (J)		0.22			0.08 (J)
3/26/2019		<0.125	0.192	0.123		0.253			0.106
3/27/2019	<0.125				0.208		0.089 (J)	0.104	
9/9/2019			0.157				0.163		
9/10/2019	<0.125	0.0545 (J)		0.0914 (J)		0.227		0.191	0.086 (J)
9/11/2019					0.2				
4/20/2020									
4/21/2020			0.171	0.095 (J)	0.224	0.218	0.126		0.0951 (J)
4/22/2020	<0.125	<0.125						0.167	
8/11/2020	<0.125								
8/12/2020		<0.125	0.198	0.0867 (J)	0.221				
8/17/2020							0.0753 (J)		
8/18/2020								0.165	
8/19/2020						0.223			0.103
3/9/2021			0.205			0.17			0.0949 (J)
3/10/2021	0.104	<0.125		0.085 (J)				0.0749 (J)	
3/15/2021									
3/16/2021					0.282		0.185		
8/17/2021			0.212				0.0974 (J)		



# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-25	GC-AP-MW-24 (bg)	GC-AP-MW-18	GC-AP-MW-23 (bg)	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-2	GC-AP-MW-11	GC-AP-MW-7
8/18/2021									
8/23/2021					0.322				
8/24/2021	0.0914 (J)	<0.125		0.0713 (J)		0.161			0.1
8/25/2021								0.135	
3/28/2022				<0.125			0.105 (J)		
3/29/2022	0.0724 (J)					0.193			0.104 (J)
3/30/2022								<0.125	
4/4/2022		<0.125			0.216				
4/5/2022									
4/6/2022			0.1385 (JD)						
10/5/2022							0.124 (J)		
10/17/2022		<0.125	0.176	<0.125	0.192			0.118 (J)	
10/18/2022	0.0955 (J)					0.154			0.0649 (J)
10/19/2022									
5/16/2023		<0.125		0.0935 (J)					
5/17/2023					0.24		0.0918 (J)	0.157	
5/22/2023			0.186						
5/23/2023									
5/24/2023									
5/30/2023	0.0807 (J)					0.193			0.111 (J)
5/31/2023									

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-3	GC-AP-MW-1	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-28 (bg)
2/16/2016									
2/17/2016	0.53	0.08 (J)	0.05 (J)						
4/12/2016		0.083 (J)							
4/13/2016	0.437		0.061 (J)						
5/31/2016									
6/1/2016	0.376	0.118 (J)	0.079 (J)						
8/15/2016	0.362	0.109 (J)	0.081 (J)						
8/16/2016				0.054 (J)	0.061 (J)	0.05 (J)	0.087 (J)	0.036 (J)	
8/17/2016									0.055 (J)
9/19/2016				0.023 (J)	0.018 (J)		0.045 (J)		
9/20/2016						0.015 (J)		<0.125	0.021 (o)
10/11/2016		0.066 (J)	0.049 (J)	0.011 (J)	<0.125	<0.125	0.034 (J)	<0.125	
10/12/2016	0.377								<0.125
11/14/2016				<0.125	<0.125		<0.125		
11/15/2016						<0.125		<0.125	<0.125
1/3/2017				<0.125	<0.125		<0.125		
1/4/2017						<0.125		<0.125	<0.125
3/13/2017						<0.125			
3/14/2017	0.41	0.07 (J)	0.04 (J)	<0.125	<0.125		<0.125	<0.125	<0.125
3/15/2017									
5/9/2017		0.09 (J)	0.05 (J)			<0.125		<0.125	<0.125
5/10/2017	0.36			0.05 (J)	0.06 (J)		0.05 (J)		
6/27/2017	0.38		0.04 (J)	0.04 (J)	0.07 (J)	<0.125	0.05 (J)	<0.125	<0.125
6/28/2017		0.1							
8/29/2017									
8/30/2017	0.38	0.12	0.04 (J)	0.04 (J)	0.08 (J)	<0.125	<0.125	<0.125	<0.125
2/27/2018		0.09 (J)	0.07 (J)	0.04 (J)	0.07 (J)	<0.125	<0.125	<0.125	<0.125
2/28/2018	0.58								
6/4/2018		0.1	0.07 (J)						
6/5/2018	0.41			0.04 (J)	0.1	<0.125	<0.125	<0.125	<0.125
6/6/2018									
11/5/2018				<0.125					
11/6/2018	0.45	0.1	0.04 (J)		0.08 (J)	<0.125	<0.125	<0.125	<0.125
11/7/2018									
3/26/2019	0.573					<0.125		<0.125	<0.125
3/27/2019		0.13	0.192	<0.125	<0.125		<0.125		
9/9/2019	0.477	0.121							
9/10/2019			0.179						
9/11/2019				0.0518 (J)	<0.125	<0.125	<0.125	<0.125	0.0649 (J)
4/20/2020		0.112							
4/21/2020	0.565		0.12			<0.125		<0.125	<0.125
4/22/2020				<0.125	<0.125		<0.125		
8/11/2020	0.515						<0.125		
8/12/2020				<0.125	<0.125				
8/17/2020		0.148	0.115						
8/18/2020						<0.125		<0.125	<0.125
8/19/2020									
3/9/2021	0.628								
3/10/2021									
3/15/2021				<0.125	<0.125	<0.125	<0.125	<0.125	<0.125
3/16/2021		0.23	0.129						
8/17/2021	0.494	0.184	0.158						

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-3	GC-AP-MW-1	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-28 (bg)
8/18/2021						<0.125		<0.125	<0.125
8/23/2021				<0.125	<0.125		<0.125		
8/24/2021									
8/25/2021									
3/28/2022				<0.125	<0.125	<0.125	<0.125	<0.125	<0.125
3/29/2022									
3/30/2022									
4/4/2022	0.5855 (D)		0.124 (JD)						
4/5/2022		0.146 (JD)							
4/6/2022									
10/5/2022		0.12 (J)	0.125	<0.125	<0.125		0.0671 (J)		
10/17/2022									
10/18/2022	0.544								
10/19/2022						<0.125		<0.125	0.0698 (J)
5/16/2023			0.144						
5/17/2023	0.535	0.147							
5/22/2023				<0.125	<0.125				
5/23/2023							<0.125		
5/24/2023									
5/30/2023						<0.125		<0.125	<0.125
5/31/2023									

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-27 (bg)GC-AP-MW-26 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	0.039 (J)	0.159 (J)
9/19/2016		
9/20/2016	0.01 (o)	0.126 (J)
10/11/2016		
10/12/2016	<0.125	0.1 (J)
11/14/2016		
11/15/2016	<0.125	0.016 (J)
1/3/2017		
1/4/2017	<0.125	<0.125
3/13/2017		0.31 (o)
3/14/2017	<0.125	
3/15/2017		
5/9/2017	<0.125	0.25 (o)
5/10/2017		
6/27/2017	<0.125	0.22 (o)
6/28/2017		
8/29/2017	<0.125	0.22 (o)
8/30/2017		
2/27/2018	<0.125	0.08 (J)
2/28/2018		
6/4/2018		
6/5/2018	<0.125	0.07 (J)
6/6/2018		
11/5/2018		
11/6/2018	<0.125	0.07 (J)
11/7/2018		
3/26/2019	<0.125	<0.125
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	<0.125	0.0716 (J)
4/20/2020		
4/21/2020	<0.125	<0.125
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	<0.125	<0.125
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	<0.125	<0.125
3/16/2021		
8/17/2021		

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-26 (bg)
8/18/2021	<0.125	<0.125
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	<0.125	
3/29/2022		
3/30/2022		
4/4/2022		<0.125
4/5/2022		
4/6/2022		
10/5/2022		
10/17/2022		
10/18/2022		
10/19/2022	<0.125	<0.125
5/16/2023		
5/17/2023		
5/22/2023		
5/23/2023		
5/24/2023		
5/30/2023	0.0734 (J)	0.0642 (J)
5/31/2023		

# Prediction Limit

Constituent: pH (SU) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-21	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-9	GC-AP-MW-11	GC-AP-MW-7
2/16/2016	6.29	6.84	6.16	7.15	6.4	6.21	6.5		
2/17/2016								6.04	6.45
4/12/2016					6.41	6.37			
4/13/2016	6.21	7.03	6.29	7.1			6.32	6.07	6.49
5/31/2016	6.45	6.94			6.22	6.42		6.03	6.43
6/1/2016			6.33	6.76			6.43		
8/15/2016									
8/16/2016	6.58	6.84		6.99	6.41			6.09	
8/17/2016			6.27			6.42	6.46		6.43
9/19/2016									
9/20/2016									
10/11/2016									
10/12/2016	6.6	6.75	6.3	6.89	6.42	6.38	6.53	6.06	6.46
10/31/2016									
11/1/2016					6.55	6.33			
11/2/2016									
11/14/2016									
11/15/2016									
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017									
1/25/2017	6.47	6.87	6.27	6.84	6.76	6.37	6.45	5.94	6.43
1/26/2017									
3/13/2017									
3/14/2017						6.3		6.08	6.41
3/15/2017	6.54	6.9	6.27	6.78	6.82		6.39		
5/9/2017		6.85		6.83	6.7	6.43		6.07	
5/10/2017	6.53		6.25				6.39		6.41
5/31/2017									
6/27/2017									
6/28/2017	6.49	6.85	6.25	6.98	6.58	6.4	6.4	6.02	6.46
8/29/2017	6.49	6.86	6.32	6.8	6.4	6.32	6.47	6.19	6.46
8/30/2017									
2/27/2018	6.59		6.36			6.28	6.54	6.21	6.45
2/28/2018		6.94		6.87	6.72				
6/4/2018									
6/5/2018	6.52		6.3				6.47	6.27	6.36
6/6/2018		6.99		6.94	6.57	6.25			
9/10/2018				6.74				6.33	
9/11/2018	6.53	6.87	6.36		6.64		6.53		6.38
9/12/2018						6.42			
11/5/2018		6.81		6.66	6.69			6.26	
11/6/2018									
11/7/2018	6.51		6.31			6.42	6.49		6.37
3/26/2019		6.95	6.32	6.84	6.54		6.47		6.39
3/27/2019	6.53					6.41		6.37	
9/9/2019									
9/10/2019	6.33	6.69	6.31	6.58		6.11	6.43	5.91	6.39
9/11/2019					6.22				

# Prediction Limit

Constituent: pH (SU) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-8	GC-AP-MW-21	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-9	GC-AP-MW-11	GC-AP-MW-7
4/20/2020					6.68				
4/21/2020		6.96	6.06	6.81		6.31	6.25		6.39
4/22/2020	6.44							6.26	
8/11/2020						6.02			
8/12/2020									
8/17/2020									
8/18/2020	6.33	6.98		6.31	6.76		6.21	6	
8/19/2020			6.06						6.14
3/9/2021			6.31			6.48	6.14		6.45
3/10/2021		6.89		6.26				5.97	
3/15/2021	6.29				6				
3/16/2021									
8/17/2021									
8/18/2021									
8/23/2021									
8/24/2021	6.04		6.16				6.08		6.4
8/25/2021		7.04		6.51	6.66	6.21		6.38	
3/28/2022									
3/29/2022		6.44	6.21				5.61		6.62
3/30/2022				6.09				6.02	
4/4/2022	6.21 (D)					6.39 (D)			
4/5/2022									
4/6/2022					6.24				
10/5/2022									
10/17/2022		6.88		6.21	6.22			6.28	
10/18/2022	6.62		6.45			6.46	6.27		6.37
10/19/2022									
5/16/2023									
5/17/2023							6.21		
5/22/2023									
5/23/2023									
5/24/2023	6.59					6.4			
5/30/2023		6.87	6.62	6.03			6.38		6.42
5/31/2023					6.37				

# Prediction Limit

Constituent: pH (SU) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-5	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25
2/16/2016									
2/17/2016	6.02	6.18	6.32	6.63	6.23	6.01	6.8	5.39	5.36
4/12/2016	6.17			6.59	6.3		6.54	5.29	5.31
4/13/2016		6.28	6.44			6.17			
5/31/2016	6.15			6.57					
6/1/2016		6.36	6.24		6.24	6.18	6.49	5.39	5.35
8/15/2016		6.37	6.34		6.25	6.12			
8/16/2016	6.21						6.57	5.51	
8/17/2016				6.72					5.38
9/19/2016									
9/20/2016									
10/11/2016	6.14			6.69		6.09	6.54	5.44	5.31
10/12/2016		6.32	6.42		6.26				
10/31/2016									
11/1/2016	6.15								
11/2/2016		6.33	6.48		6.3		6.54	5.49	5.39
11/14/2016									
11/15/2016									
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	6.11	6.29	6.53	6.61	6.3	6.04	6.42	5.44	5.29
1/25/2017									
1/26/2017									
3/13/2017									
3/14/2017	6.09	6.27	6.43	6.55	6.31	6.11	6.59	5.48	5.19
3/15/2017									
5/9/2017				6.65		6.1	6.42		5.29
5/10/2017	6.11	6.3	6.33		6.34			5.43	
5/31/2017									
6/27/2017	6.09	6.28	6.38		6.32		6.44		
6/28/2017				6.66		6.09		5.49	5.27
8/29/2017							6.43	5.46	5.27
8/30/2017	6.1	6.34	6.31	6.66	6.38	6.07			
2/27/2018				6.73		6.09	6.49	5.48	
2/28/2018	6.11	6.33	6.57		6.31				5.28
6/4/2018						6.07			
6/5/2018	6.05	6.29	6.21	6.63	6.16		6.43	5.31	
6/6/2018									5.21
9/10/2018						6			
9/11/2018	6.18			6.65			6.35	5.36	
9/12/2018		6.36	6.43		6.29				5.23
11/5/2018									
11/6/2018	6.09	6.37	6.47	6.65	6.31	6.04			5.28
11/7/2018							6.37	5.34	
3/26/2019	6.1	6.34	6.52		6.3		6.46	5.32	
3/27/2019				6.59		6.06			5.27
9/9/2019			5.84		6.28	6.13			
9/10/2019	5.82	6.35					5.85	4.9	5.15
9/11/2019				6.36					



# Prediction Limit

Constituent: pH (SU) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-5	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25
4/20/2020	6.16	6.43							
4/21/2020			6.61	6.5	6.31	5.99	6.26		
4/22/2020								5.3	5.26
8/11/2020		6.7	6.71						4.81
8/12/2020	6.1			6.36	6.62		6.03	5.04	
8/17/2020						5.91			
8/18/2020									
8/19/2020									
3/9/2021		6.29	6.52		6.39				
3/10/2021	6.08						6.17	5.14	5.71
3/15/2021									
3/16/2021				6.64		5.87			
8/17/2021		6.33	6.57			6.38	5.99		
8/18/2021									
8/23/2021				6.5					
8/24/2021							6.09	5.16	5.25
8/25/2021	6.12								
3/28/2022						5.32	6.08		
3/29/2022	5.81								5.26
3/30/2022									
4/4/2022			6.71 (D)	6.42 (D)				4.4 (D)	
4/5/2022									
4/6/2022		6.42 (D)			6.29 (D)				
10/5/2022						6.01			
10/17/2022				6.71	6.49		6.22	5.22	
10/18/2022	6.29	6.53	6.77						5.88
10/19/2022									
5/16/2023							6.09	4.8	
5/17/2023			6.71	6.64		5.79			
5/22/2023					6.1				
5/23/2023	6.25								
5/24/2023									
5/30/2023									5.45
5/31/2023		6.52							

# Prediction Limit

Constituent: pH (SU) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-1	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-31	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	6.46	5.8	6.29						
4/12/2016	6.45		6.33						
4/13/2016		5.85							
5/31/2016	6.51								
6/1/2016		5.92	6.4						
8/15/2016		5.99	6.36						
8/16/2016				5.39	6	6.34	6.21	7.13	
8/17/2016	6.54								5.85
9/19/2016					6	6.11		6.94	
9/20/2016				5.37			6.05		5.82
10/11/2016	6.53	6.02	6.38	5.39	6.02	5.99	6.2	6.82	
10/12/2016									5.76
10/31/2016				5.36			6.61		
11/1/2016					5.97	5.84		6.71	
11/2/2016									
11/14/2016					5.98	5.83		6.57	
11/15/2016				5.33			6.64		5.79
11/28/2016					6	5.79		6.57	
11/29/2016				5.33			6.39		5.73
1/3/2017					6.03	5.39		6.56	
1/4/2017				5.49			6.06		5.69
1/23/2017				5.48					5.45
1/24/2017	6.44	5.92	6.34		5.9			6.41	
1/25/2017						5.09			
1/26/2017							6.02		
3/13/2017							5.68		4.8
3/14/2017	6.4	5.96	6.42	5.17	6.07	4.99		6.37	
3/15/2017									
5/9/2017		5.93	6.35	5.11			5.05		4.82
5/10/2017	6.4				6	4.63		6.41	
5/31/2017					6.02				
6/27/2017		5.86		5.29	6.05	4.76	4.9	6.14	5.27
6/28/2017	6.46		6.32						
8/29/2017	6.47								5.28
8/30/2017		5.88	6.32	5.09	6.13	4.85	4.73	6.08	
2/27/2018	6.53	5.92	6.39	5.25	6.1	4.69	4.87	5.99	5.11
2/28/2018									
6/4/2018		5.89	6.4						
6/5/2018	6.49			5.12	6.05	4.62	4.89	5.93	5.24
6/6/2018									
9/10/2018		5.89							
9/11/2018	6.48			5.19	6.07	4.79	4.88	5.86	5.28
9/12/2018			6.35						
11/5/2018					6.01				
11/6/2018		5.95	6.34	5.12		4.62	4.86	5.89	5.54
11/7/2018	6.48								
3/26/2019	6.54			5.16			4.97		5.4
3/27/2019		5.8	6.44		6.15	4.68		5.95	
9/9/2019			6.22						
9/10/2019	6.55	5.88							
9/11/2019				4.11	5.87	4.57	3.96	5.85	5.53



# Prediction Limit

Constituent: pH (SU) Analysis Run 7/14/2023 2:20 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-27 (bg)GC-AP-MW-28 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	5.47	6.15
9/19/2016		
9/20/2016	5.22	4.99
10/11/2016		
10/12/2016	5.1	4.88
10/31/2016		4.87
11/1/2016		
11/2/2016		
11/14/2016		
11/15/2016	5.07	4.81
11/28/2016		
11/29/2016	5.1	4.84
1/3/2017		
1/4/2017	5.3	4.88
1/23/2017	5.12	
1/24/2017		5.4
1/25/2017		
1/26/2017		
3/13/2017		
3/14/2017	4.74	5.13
3/15/2017		
5/9/2017	4.83	4.96
5/10/2017		
5/31/2017		
6/27/2017	4.87	5.34
6/28/2017		
8/29/2017	4.71	
8/30/2017		4.69
2/27/2018	4.96	4.91
2/28/2018		
6/4/2018		
6/5/2018	5	4.87
6/6/2018		
9/10/2018		
9/11/2018	4.94	4.65
9/12/2018		
11/5/2018		
11/6/2018	4.9	4.67
11/7/2018		
3/26/2019	4.96	4.92
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	4.85	4.33

# Prediction Limit

Constituent: pH (SU) Analysis Run 7/14/2023 2:20 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
4/20/2020		
4/21/2020	4.29	4.07
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	4.75	4.59
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	4.73	4.45
3/16/2021		
8/17/2021		
8/18/2021	4.52	3.78
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	4.73	4.69
3/29/2022		
3/30/2022		
4/4/2022		
4/5/2022		
4/6/2022		
10/5/2022		
10/17/2022		
10/18/2022		
10/19/2022	5.02	4.87
5/16/2023		
5/17/2023		
5/22/2023		
5/23/2023		
5/24/2023		
5/30/2023	4.65	5.04
5/31/2023		

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-21	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-1	GC-AP-MW-18
2/16/2016	45.2	113	108	125	49.4	9.03	119		
2/17/2016								785	60.2
4/12/2016		86.7	114						68.2
4/13/2016	43.9			119	51.7	10.7	122	715	
5/31/2016		83.1	114			10.2	94.3		
6/1/2016	32			99.2	51.2			832	61.4
8/15/2016								862	56
8/16/2016		59.3		71.9		9.1	67.1		
8/17/2016	31.9		85.4		42.9				
9/19/2016									
9/20/2016									
10/11/2016								888	
10/12/2016	39.6	99.3	53.5	93.9	39.5	7.24	94.1		36.6
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								906	12.3
1/25/2017	44	113	75.4	103	31.3	9.71	101		
1/26/2017									
5/9/2017		74	84	100			91	810	
5/10/2017	32				30	11			10
6/27/2017								830	9.7
6/28/2017	34	71	120	69	35	10	71		
8/29/2017	34	72	180	77	40	14	80		
8/30/2017								910	7.8
6/4/2018								850	
6/5/2018	22				25	39			13
6/6/2018		48	450	81			62		
9/10/2018				64				920	
9/11/2018	33	62			23	29	63		
9/12/2018			200						28
11/5/2018		81		68			74		
11/6/2018								880	11
11/7/2018	76		180		30	45			
3/26/2019	138	92.4		92	21.6		92.3		21.3
3/27/2019			335			66.2		1090	
9/9/2019									17.8
9/10/2019	115		193	63.1	37.4	50.5	89.3	992	
9/11/2019		128							
4/20/2020		76.5							
4/21/2020	133		168	99	43.3		121	874	19.2
4/22/2020						63.2			
8/11/2020			242						
8/12/2020									13.8
8/17/2020								919	
8/18/2020	115	203		63.4		58.6	89		
8/19/2020					44.5				
3/9/2021	107		165		71.7				11.6
3/10/2021				51.7			155		
3/15/2021		204				68.5			

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-21	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-1	GC-AP-MW-18
3/16/2021								933	
8/17/2021								745	12.2
8/18/2021									
8/23/2021									
8/24/2021	139				71.4	71.6			
8/25/2021		181	346	76.1			118		
3/28/2022									
3/29/2022	193				75.3		108		
3/30/2022				115					
4/4/2022			195.5 (D)				116.5 (D)	812.5 (D)	
4/5/2022									
4/6/2022		157							16.05 (D)
10/5/2022								737	
10/17/2022		467		103			96.199997		23.299999
10/18/2022	171		185		84.800003	104			
10/19/2022									
5/16/2023								578	
5/17/2023									
5/22/2023									19.1
5/23/2023									
5/24/2023			178			119			
5/30/2023	135			89.400002	69.5		106		
5/31/2023		162							

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-3	GC-AP-MW-17	GC-AP-MW-16	GC-AP-MW-11	GC-AP-MW-15	GC-AP-MW-23 (bg)	GC-AP-MW-2	GC-AP-MW-24 (bg)	GC-AP-MW-6
2/16/2016									
2/17/2016	<1	72.3	87.4	40.2	187	14.7	304	10.4	132
4/12/2016	0.49 (J)				188	20		11.3	130
4/13/2016		123	92.7	33.1			307		
5/31/2016				28.1	183				111
6/1/2016	0.544 (J)	144	111			20.1	273	10.4	
8/15/2016	0.332 (J)	50.1	98.3				275		
8/16/2016				38.5	196	19.1		12.2	
8/17/2016									95.8
9/19/2016									
9/20/2016									
10/11/2016	<1				216	18.4	284	19.8	101
10/12/2016		72.6	99.3	38.3					
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	<1	63.4	85.4		183	15	302	30.7	129
1/25/2017				32					
1/26/2017									
5/9/2017	2.1 (J)			44		14	250		
5/10/2017		82	74		160			33	120
6/27/2017		44	75		150	14			
6/28/2017	<1			88			230	56	100
8/29/2017				110		16		61	95
8/30/2017	<1	230	87		160		250		
6/4/2018	1.4 (J)						260		
6/5/2018		230	87	79	160	14		97	98
6/6/2018									
9/10/2018				80			280		
9/11/2018					140	13		83	100
9/12/2018	<1	33	63						
11/5/2018				81					
11/6/2018	<1	220	97		160		280		
11/7/2018						14		91	97
3/26/2019		161	123		157	12.3		103	120
3/27/2019	6.64			83.2			375		
9/9/2019	6.56	57.3					385		
9/10/2019			68	87.2	150	12.4		83.4	140
9/11/2019									
4/20/2020	10.5		49.6		142				
4/21/2020		78				10.2	522		153
4/22/2020				58.7				84.7	
8/11/2020		46.7	55						
8/12/2020					160	10.2		82.2	
8/17/2020	17.3						497		
8/18/2020				81.1					
8/19/2020									163
3/9/2021		95.8	43.9						187
3/10/2021				73.2	136	11.8		99.9	
3/15/2021									



# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-3	GC-AP-MW-17	GC-AP-MW-16	GC-AP-MW-11	GC-AP-MW-15	GC-AP-MW-23 (bg)	GC-AP-MW-2	GC-AP-MW-24 (bg)	GC-AP-MW-6
3/16/2021	7.62						548		
8/17/2021	12	32.8	46.6				502		
8/18/2021									
8/23/2021									
8/24/2021						11.6		81.8	210
8/25/2021				126	153				
3/28/2022						11.8	563		
3/29/2022					165				190
3/30/2022				125					
4/4/2022		68.9 (D)						90.2	
4/5/2022	14.95 (D)								
4/6/2022			45.3 (D)						
10/5/2022	5.11						590		
10/17/2022				144		9.72		79.599998	
10/18/2022		64.900002	42.400002		152				179
10/19/2022									
5/16/2023						9.41		103	
5/17/2023	19.6	122		150			689		
5/22/2023									
5/23/2023					131				
5/24/2023									
5/30/2023									210
5/31/2023			42.799999						

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-7	GC-AP-MW-25	GC-AP-MW-5	GC-AP-MW-32	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-28 (bg)
2/16/2016									
2/17/2016	311	28.7	<1						
4/12/2016		32.5	0.483 (J)						
4/13/2016	330								
5/31/2016	324		0.518 (J)						
6/1/2016		31.9							
8/15/2016									
8/16/2016				2.06	0.702 (J)	1.78	0.894 (J)	9.33	
8/17/2016	306	30.5	3.63						6.46
9/19/2016				1.44		2.06		11.2	
9/20/2016					<1		<1		8.3
10/11/2016		32.3	15.6	1.38	<1	2.33	<1	12.6	
10/12/2016	296								8.36
11/14/2016				1.15		2.31		12.4	
11/15/2016					<1		1.19		8.75
1/3/2017				1.57		2.81		14.3	
1/4/2017					<1		<1		7.85
1/23/2017					0.493 (J)				
1/24/2017		33.5	28.9	2.06		3.34			6.62
1/25/2017	243							15.2	
1/26/2017							0.6 (J)		
5/9/2017		33	25		<1		<1		5.6
5/10/2017	210			2.1 (J)		2.9 (J)		12	
6/27/2017				2.7 (J)	<1	3.4 (J)	<1	13	5.3
6/28/2017	210	35	45						
8/29/2017	220	37							
8/30/2017			96	2.6 (J)	<1	3.7 (J)	<1	15	8.2
6/4/2018									
6/5/2018	390		36	3.1 (J)	<1	3.7 (J)	1.4 (J)	17	8.3
6/6/2018		47							
9/10/2018									
9/11/2018	360		48	1.6 (J)	<1	2.2 (J)	<1	16	8.9
9/12/2018		41							
11/5/2018				2.4 (J)					
11/6/2018		48	93		<1	3.1 (J)	<1	15	8.6
11/7/2018	390								
3/26/2019	430				<1		0.594 (J)		10.1
3/27/2019		62.4	33.4	3.24		3.55		15.1	
9/9/2019									
9/10/2019	409	66							
9/11/2019			149	2.66	<1	3.83	<1	14.5	10.6
4/20/2020									
4/21/2020	318		163		<1		0.694 (J)		9.4
4/22/2020		76.1		2.51		3.78		9.64	
8/11/2020		79.5				4.33			
8/12/2020			132	2.54				13.6	
8/17/2020									
8/18/2020					<1		0.608 (J)		10.3
8/19/2020	296								
3/9/2021	347								
3/10/2021		70.3							
3/15/2021				8.5	<1	3.74	<1	2.76	10.4



# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-27 (bg)GC-AP-MW-26 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	0.928 (J)	16.2
9/19/2016		
9/20/2016	0.478 (J)	14.9
10/11/2016		
10/12/2016	0.727 (J)	12.4
11/14/2016		
11/15/2016	0.448 (J)	8.6
1/3/2017		
1/4/2017	0.627 (J)	12.2
1/23/2017	1.34	16
1/24/2017		
1/25/2017		
1/26/2017		
5/9/2017	<1	55
5/10/2017		
6/27/2017	<1	45
6/28/2017		
8/29/2017	<1	37
8/30/2017		
6/4/2018		
6/5/2018	2.1 (J)	9.3
6/6/2018		
9/10/2018		
9/11/2018	<1	7.8
9/12/2018		
11/5/2018		
11/6/2018	<1	6
11/7/2018		
3/26/2019	1.66	6.86
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	1.29	5.29
4/20/2020		
4/21/2020	2.21	6.28
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	1.57	9.57
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	2.5	7.66

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-26 (bg)
3/16/2021		
8/17/2021		
8/18/2021	3.18	7.07
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	6.24	
3/29/2022		
3/30/2022		
4/4/2022		12.5
4/5/2022		
4/6/2022		
10/5/2022		
10/17/2022		
10/18/2022		
10/19/2022	3.95	12.5
5/16/2023		
5/17/2023		
5/22/2023		
5/23/2023		
5/24/2023		
5/30/2023	5.96	16
5/31/2023		

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLS  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-21	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-1	GC-AP-MW-18
2/16/2016	226	242	340	264	656	312	264		
2/17/2016								1540	464
4/12/2016		176	298						491
4/13/2016	202			226	634	324	238	1200	
5/31/2016		189	309			333	206		
6/1/2016	224			231	672			1440	468
8/15/2016								1420	454
8/16/2016		192		181		327	180		
8/17/2016	290		269		624				
9/19/2016									
9/20/2016									
10/11/2016								1420	
10/12/2016	315			225	586	312	223		
10/31/2016									
11/1/2016		244	252						
11/2/2016									422
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								1350	408
1/25/2017	332	274	259	277	596	286	271		
1/26/2017									
5/9/2017		191	285	255			236	1540	
5/10/2017	361				576	326			358
6/27/2017								1470	382
6/28/2017	396	176	348	175	612	304	198		
8/29/2017	402	163	528	218	640	348	187		
8/30/2017								1530	392
6/4/2018								1370	
6/5/2018	448				474	346			352
6/6/2018		138	932	207			199		
9/10/2018				197				1380	
9/11/2018	462	185			496	335	184		
9/12/2018			180						339
11/5/2018		208		200			210		
11/6/2018								1450	368
11/7/2018	506		528		514	342			
3/26/2019	586	198		218	546		230		406
3/27/2019			834			347		1910	
9/9/2019									409 (D)
9/10/2019	586		658	198	601 (D)	351	218 (D)	1740	
9/11/2019		316							
4/20/2020		201							
4/21/2020	578		628	265	638		291	1530	429
4/22/2020						338			
8/11/2020			688						
8/12/2020									390
8/17/2020								1590	
8/18/2020	542	444		179		376	250		
8/19/2020					658				

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-21	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-12	GC-AP-MW-1	GC-AP-MW-18
3/9/2021	532		618		746				412
3/10/2021				296			331		
3/15/2021		374				406			
3/16/2021								1620	
8/17/2021								1340	397
8/18/2021									
8/23/2021									
8/24/2021	624				690	423			
8/25/2021		359	774	207			263		
3/28/2022									
3/29/2022	800				730		290		
3/30/2022				320					
4/4/2022			644 (D)			443.5 (D)		1310 (D)	
4/5/2022									
4/6/2022		298							408.5 (D)
10/5/2022								1190	
10/17/2022		708		311			243		382
10/18/2022	692		662		700	449			
10/19/2022									
5/16/2023								1050	
5/17/2023									
5/22/2023									362
5/23/2023									
5/24/2023			650			490			
5/30/2023	646			237	676		279		
5/31/2023		333							





# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-3	GC-AP-MW-17	GC-AP-MW-16	GC-AP-MW-11	GC-AP-MW-15	GC-AP-MW-23 (bg)	GC-AP-MW-2	GC-AP-MW-24 (bg)	GC-AP-MW-6
3/9/2021		684	524						716
3/10/2021				274	397	105		179	
3/15/2021									
3/16/2021	340						890		
8/17/2021	297	506	490				808		
8/18/2021									
8/23/2021									
8/24/2021						96.7		167	792
8/25/2021				358	407				
3/28/2022						96	868		
3/29/2022					406				722
3/30/2022				280					
4/4/2022		553 (D)						155	
4/5/2022	338 (D)								
4/6/2022			472 (D)						
10/5/2022	319						864		
10/17/2022				323		83.300003		134	
10/18/2022		598	486		423				752
10/19/2022									
5/16/2023						86		182	
5/17/2023	349	648		354			1030		
5/22/2023									
5/23/2023					410				
5/24/2023									
5/30/2023									818
5/31/2023			502						

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-7	GC-AP-MW-25	GC-AP-MW-5	GC-AP-MW-32	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-28 (bg)
2/16/2016									
2/17/2016	892	144	238						
4/12/2016		140	316						
4/13/2016	1010								
5/31/2016	1100		320						
6/1/2016		139							
8/15/2016									
8/16/2016				49.3	<25	142	41.3	101	
8/17/2016	1070	142	325						65.3
9/19/2016				44.7		121		80	
9/20/2016					26.7		42.7		44
10/11/2016			333						
10/12/2016	1040								
10/31/2016					25.3		140		38.7
11/1/2016				48		103		78	
11/2/2016		128							
11/28/2016				40.7		84		68.7	
11/29/2016					<25		78		34
1/3/2017				49.3		89.3		60.7	
1/4/2017					34.7		34		42
1/23/2017					33.3				
1/24/2017		124	336	48.7		83.3			45.3
1/25/2017	972							54.7	
1/26/2017							32.7		
5/9/2017		136	317		<25		<25		49.3
5/10/2017	740			46.7		31.3		60.7	
6/27/2017				55.3	<25	67.3	30.7	58	46
6/28/2017	914	145	373						
8/29/2017	924	139							
8/30/2017			432	57.3	28	64	25.3	66.7	38.7
6/4/2018									
6/5/2018	1060		347	52.7	28.7	50	<25	71.3	34.7
6/6/2018		153							
9/10/2018									
9/11/2018	1020		370	60	29.3	53.3	<25	66.7	34.7
9/12/2018		156							
11/5/2018				53.3					
11/6/2018		153	409		<25	66	<25	61.3	36
11/7/2018	1050								
3/26/2019	1100				26.15 (D)		<25		30
3/27/2019		178	328	51.35 (D)		48.7		65.3	
9/9/2019									
9/10/2019	1100	182							
9/11/2019			455	55.3	34	52.7	<25	68.3 (D)	40
4/20/2020									
4/21/2020	1010		494		26.7		<25		36
4/22/2020		195		52.7		49.3		62.7	
8/11/2020		193				52			
8/12/2020			433	49.3				62	
8/17/2020									
8/18/2020					30		<25		35.3
8/19/2020	1050								

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-7	GC-AP-MW-25	GC-AP-MW-5	GC-AP-MW-32	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-28 (bg)
3/9/2021	1090								
3/10/2021		246							
3/15/2021				46	30	49.3	<25	48	30
3/16/2021			510						
8/17/2021									
8/18/2021					28.7		<25		32
8/23/2021			481	64.7		49.3		48.7	
8/24/2021	930	224							
8/25/2021									
3/28/2022				51.3	27.3	43.3	<25	57.3	38.7
3/29/2022	894	247							
3/30/2022									
4/4/2022			488						
4/5/2022									
4/6/2022									
10/5/2022				43.299999		40.700001		62.700001	
10/17/2022			483						
10/18/2022	1040	256							
10/19/2022					28		<25		28.700001
5/16/2023									
5/17/2023			496						
5/22/2023				51.299999				66	
5/23/2023						47.299999			
5/24/2023									
5/30/2023	1000	225			28.700001		<25		32.700001
5/31/2023									

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

GC-AP-MW-27 (bg)GC-AP-MW-26 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	36.7	64
9/19/2016		
9/20/2016	25.3	60
10/11/2016		
10/12/2016	<25	54.7
10/31/2016		
11/1/2016		
11/2/2016		
11/28/2016		
11/29/2016	<25	42
1/3/2017		
1/4/2017	27.3	56
1/23/2017	<25	50.7
1/24/2017		
1/25/2017		
1/26/2017		
5/9/2017	28.7	126
5/10/2017		
6/27/2017	27.3	93.3
6/28/2017		
8/29/2017	30.7	84
8/30/2017		
6/4/2018		
6/5/2018	26	38.7
6/6/2018		
9/10/2018		
9/11/2018	<25	35.3
9/12/2018		
11/5/2018		
11/6/2018	26	40.7
11/7/2018		
3/26/2019	<25	36.7
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	27.3	40.7
4/20/2020		
4/21/2020	30.7	39.3
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	27.3	42
8/19/2020		

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/14/2023 2:20 PM View: PLs  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-26 (bg)
3/9/2021		
3/10/2021		
3/15/2021	30.7	42.7
3/16/2021		
8/17/2021		
8/18/2021	28.7	43.3
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	32.7	
3/29/2022		
3/30/2022		
4/4/2022		40.7
4/5/2022		
4/6/2022		
10/5/2022		
10/17/2022		
10/18/2022		
10/19/2022	26	54
5/16/2023		
5/17/2023		
5/22/2023		
5/23/2023		
5/24/2023		
5/30/2023	33.299999	57.299999
5/31/2023		

FIGURE E.

# Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 7/14/2023, 2:31 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-14	0.1976	137	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.07374	161	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-16	0.1242	121	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.09149	109	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.04204	-95	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.004949	127	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.02291	99	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.1082	-121	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.1473	126	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-1	-14.37	-102	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-10	4.072	114	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-11	4.802	168	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-12	3.284	100	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-13	7.423	124	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	14.42	121	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-15	5.714	142	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	9.333	186	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	12.1	154	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	15.95	139	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.222	-144	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	5.858	180	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.1592	-117	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.1436	-125	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-30 (bg)	-0.1095	-110	-87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	7.704	176	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	12.71	116	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-14	-0.8818	-114	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-16	-0.5951	-89	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.0757	-124	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-31	0.1175	92	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-1.065	-142	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-6	1.842	89	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-7	8.701	110	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	7.942	172	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.02058	122	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.01095	107	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-17	0.02632	98	87	Yes	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-8	0.006765	108	87	Yes	21	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (bg)	-0.0772	-181	-105	Yes	24	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-24 (bg)	-0.06219	-146	-105	Yes	24	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (bg)	-0.08501	-147	-105	Yes	24	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (bg)	-0.1019	-113	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (bg)	-0.3835	-190	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (bg)	-0.1028	-168	-111	Yes	25	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-10	14.37	174	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-11	15.31	130	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-6.528	-112	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-2	51.18	120	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.219	-164	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	13.38	132	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.4528	92	87	Yes	21	23.81	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.5321	116	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	26.21	165	87	Yes	21	4.762	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-6	12.86	93	87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-9	19.57	109	87	Yes	21	0	n/a	n/a	0.01	NP

# Trend Tests - Prediction Limit Exceedances - Significant Results Page 2

Plant Greene County Client: Southern Company Data: Greene County AP Printed 7/14/2023, 2:31 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
TDS (mg/L)	GC-AP-MW-10	20.19	153	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	23.01	164	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-13	23.51	91	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-14	64.33	95	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	25.06	182	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	29.37	123	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	64.31	124	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-6.224	-129	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	20.42	127	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-25	16.25	154	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-2.081	-100	-87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-1.511	-118	-87	Yes	21	61.9	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	29.95	158	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-6	22.74	95	87	Yes	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	77.45	181	87	Yes	21	0	n/a	n/a	0.01	NP



# Trend Tests - Prediction Limit Exceedances - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 7/14/2023, 2:31 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.01101	45	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-10	0.1178	75	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-11	-0.01142	-14	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-12	0.01095	24	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-13	0.01876	32	81	No	20	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.1976</b>	<b>137</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>0.07374</b>	<b>161</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>0.1242</b>	<b>121</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>0.09149</b>	<b>109</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-18</b>	<b>-0.04204</b>	<b>-95</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	GC-AP-MW-2	0.001878	49	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-21	0.01619	32	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-23 (bg)	0	40	81	No	20	85	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-24 (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GC-AP-MW-25</b>	<b>0.004949</b>	<b>127</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	GC-AP-MW-26 (bg)	0	9	81	No	20	95	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-27 (bg)	0	25	81	No	20	90	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-28 (bg)	0	9	81	No	20	95	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-29 (bg)	0	13	81	No	20	95	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-30 (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>0.02291</b>	<b>99</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-6</b>	<b>-0.1082</b>	<b>-121</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	GC-AP-MW-8	-0.02044	-9	-81	No	20	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>0.1473</b>	<b>126</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-1</b>	<b>-14.37</b>	<b>-102</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>4.072</b>	<b>114</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-11</b>	<b>4.802</b>	<b>168</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-12</b>	<b>3.284</b>	<b>100</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-13</b>	<b>7.423</b>	<b>124</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>14.42</b>	<b>121</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>5.714</b>	<b>142</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>9.333</b>	<b>186</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>12.1</b>	<b>154</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GC-AP-MW-18	0.0227	1	87	No	21	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-2</b>	<b>15.95</b>	<b>139</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-2.222</b>	<b>-144</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-24 (bg)</b>	<b>5.858</b>	<b>180</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GC-AP-MW-26 (bg)	-0.09736	-12	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (bg)	0.06404	54	87	No	21	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-28 (bg)</b>	<b>-0.1592</b>	<b>-117</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-29 (bg)</b>	<b>-0.1436</b>	<b>-125</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GC-AP-MW-3	-5.003	-74	-87	No	21	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-30 (bg)</b>	<b>-0.1095</b>	<b>-110</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>7.704</b>	<b>176</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GC-AP-MW-6	3.706	84	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-7	-0.7744	-7	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-8	2.62	82	87	No	21	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>12.71</b>	<b>116</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-1	-0.177	-9	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-10	-0.1768	-23	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-11	-0.3355	-27	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-12	-0.2065	-25	-87	No	21	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>-0.8818</b>	<b>-114</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-15	-0.3923	-55	-87	No	21	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>-0.5951</b>	<b>-89</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

# Trend Tests - Prediction Limit Exceedances - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 7/14/2023, 2:31 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-17	-1.044	-85	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-18	0.4132	83	87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-2	-0.4718	-72	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-21	0.03201	10	87	No	21	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-0.0757</b>	<b>-124</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-24 (bg)	-0.03819	-16	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-25	-0.3488	-34	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-26 (bg)	-0.0009283	-1	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-27 (bg)	0.07381	86	87	No	21	4.762	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-28 (bg)	-0.05837	-71	-87	No	21	9.524	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-29 (bg)	-0.1933	-83	-87	No	21	9.524	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-3	-0.4196	-76	-87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-30 (bg)	0.2963	77	87	No	21	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-31</b>	<b>0.1175</b>	<b>92</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>-1.065</b>	<b>-142</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-6</b>	<b>1.842</b>	<b>89</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-7</b>	<b>8.701</b>	<b>110</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-8	3.68	47	87	No	21	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>7.942</b>	<b>172</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride (mg/L)	GC-AP-MW-10	0.006581	54	87	No	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-12	0.002654	32	87	No	21	0	n/a	n/a	0.01	NP
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.02058</b>	<b>122</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>0.01095</b>	<b>107</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>0.02632</b>	<b>98</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Fluoride (mg/L)	GC-AP-MW-18	0.003711	72	87	No	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-23 (bg)	0	-1	-87	No	21	9.524	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-24 (bg)	0	74	87	No	21	66.67	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-26 (bg)	0	-7	-63	No	17	47.06	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-27 (bg)	0	1	81	No	20	90	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-28 (bg)	0	0	81	No	20	85	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-29 (bg)	0	37	87	No	21	90.48	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-30 (bg)	0	20	87	No	21	95.24	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-5	0.001186	19	87	No	21	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-6	0.000574	13	87	No	21	0	n/a	n/a	0.01	NP
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-8</b>	<b>0.006765</b>	<b>108</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH (SU)	GC-AP-MW-12	0.004117	23	98	No	23	0	n/a	n/a	0.01	NP
<b>pH (SU)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-0.0772</b>	<b>-181</b>	<b>-105</b>	<b>Yes</b>	<b>24</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH (SU)</b>	<b>GC-AP-MW-24 (bg)</b>	<b>-0.06219</b>	<b>-146</b>	<b>-105</b>	<b>Yes</b>	<b>24</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH (SU)	GC-AP-MW-26 (bg)	-0.09927	-105	-105	No	24	0	n/a	n/a	0.01	NP
<b>pH (SU)</b>	<b>GC-AP-MW-27 (bg)</b>	<b>-0.08501</b>	<b>-147</b>	<b>-105</b>	<b>Yes</b>	<b>24</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH (SU)</b>	<b>GC-AP-MW-28 (bg)</b>	<b>-0.1019</b>	<b>-113</b>	<b>-111</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH (SU)</b>	<b>GC-AP-MW-29 (bg)</b>	<b>-0.3835</b>	<b>-190</b>	<b>-111</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH (SU)</b>	<b>GC-AP-MW-30 (bg)</b>	<b>-0.1028</b>	<b>-168</b>	<b>-111</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GC-AP-MW-1	5.389	14	87	No	21	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>14.37</b>	<b>174</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-11</b>	<b>15.31</b>	<b>130</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GC-AP-MW-12	1.733	18	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-13	13.6	77	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	18.68	86	87	No	21	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>-6.528</b>	<b>-112</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GC-AP-MW-17	-2.687	-21	-87	No	21	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-2</b>	<b>51.18</b>	<b>120</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-1.219</b>	<b>-164</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-24 (bg)</b>	<b>13.38</b>	<b>132</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GC-AP-MW-26 (bg)	-0.9063	-46	-87	No	21	0	n/a	n/a	0.01	NP

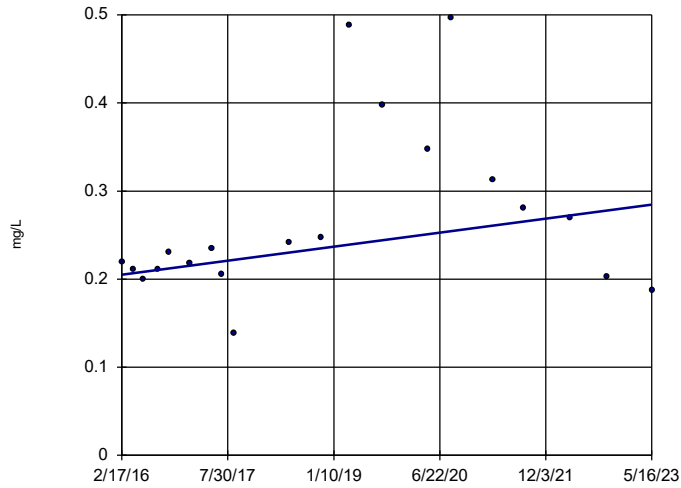
# Trend Tests - Prediction Limit Exceedances - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 7/14/2023, 2:31 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-27 (bg)</b>	<b>0.4528</b>	<b>92</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>23.81</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-28 (bg)</b>	<b>0.5321</b>	<b>116</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GC-AP-MW-29 (bg)	0	19	87	No	21	47.62	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-30 (bg)	0	35	87	No	21	71.43	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>26.21</b>	<b>165</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>4.762</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-6</b>	<b>12.86</b>	<b>93</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GC-AP-MW-7	-6.639	-23	-87	No	21	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>19.57</b>	<b>109</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-1	-14.15	-19	-87	No	21	0	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>20.19</b>	<b>153</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-11</b>	<b>23.01</b>	<b>164</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-12	8.785	64	87	No	21	0	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-13</b>	<b>23.51</b>	<b>91</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>64.33</b>	<b>95</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-15	9.251	73	87	No	21	0	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>25.06</b>	<b>182</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>29.37</b>	<b>123</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-18	-10.13	-67	-87	No	21	0	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-2</b>	<b>64.31</b>	<b>124</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-21	3.341	18	87	No	21	0	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-6.224</b>	<b>-129</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-24 (bg)</b>	<b>20.42</b>	<b>127</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-25</b>	<b>16.25</b>	<b>154</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-26 (bg)	-2.231	-38	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-27 (bg)	0.5746	59	87	No	21	23.81	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-28 (bg)</b>	<b>-2.081</b>	<b>-100</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-29 (bg)</b>	<b>-1.511</b>	<b>-118</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>61.9</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-3	-5.277	-85	-87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-30 (bg)	0.4363	48	87	No	21	23.81	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>29.95</b>	<b>158</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-6</b>	<b>22.74</b>	<b>95</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-7	0.9156	8	87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-8	11.88	54	87	No	21	0	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>77.45</b>	<b>181</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

### Sen's Slope Estimator

GC-AP-MW-1

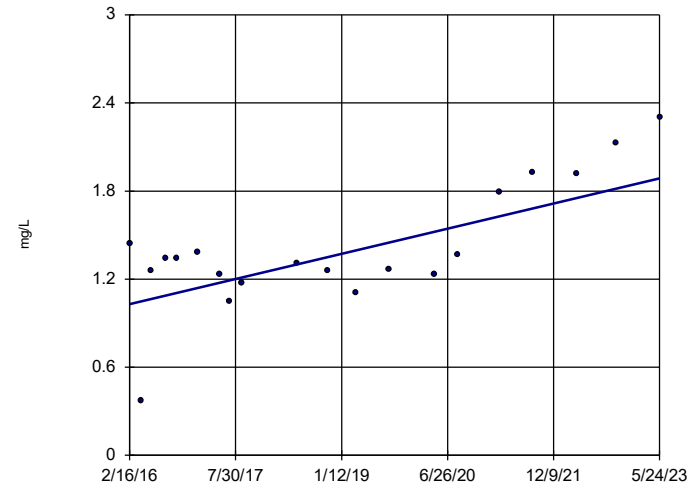


n = 20  
 Slope = 0.01101  
 units per year.  
 Mann-Kendall  
 statistic = 45  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron Analysis Run 7/14/2023 2:25 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-10

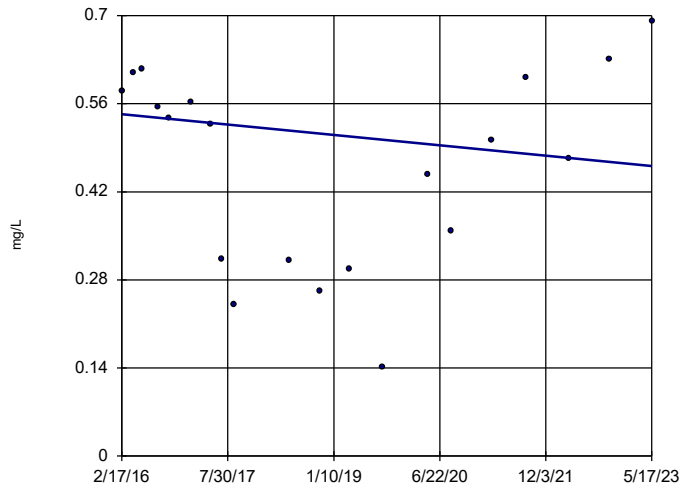


n = 20  
 Slope = 0.1178  
 units per year.  
 Mann-Kendall  
 statistic = 75  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron Analysis Run 7/14/2023 2:25 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-11

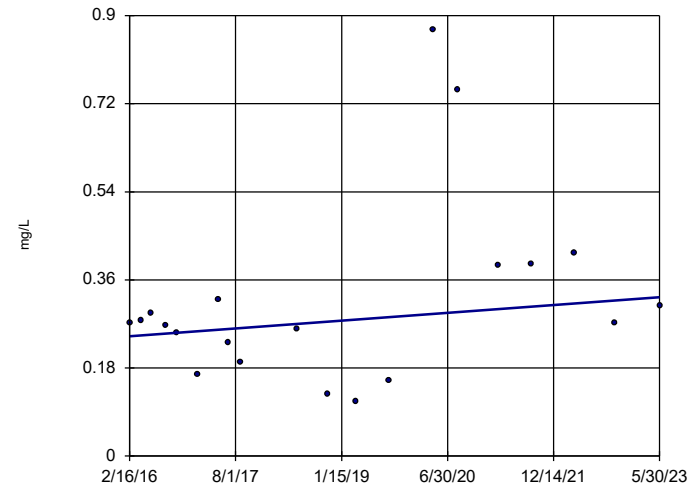


n = 20  
 Slope = -0.01142  
 units per year.  
 Mann-Kendall  
 statistic = -14  
 critical = -81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron Analysis Run 7/14/2023 2:25 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-12

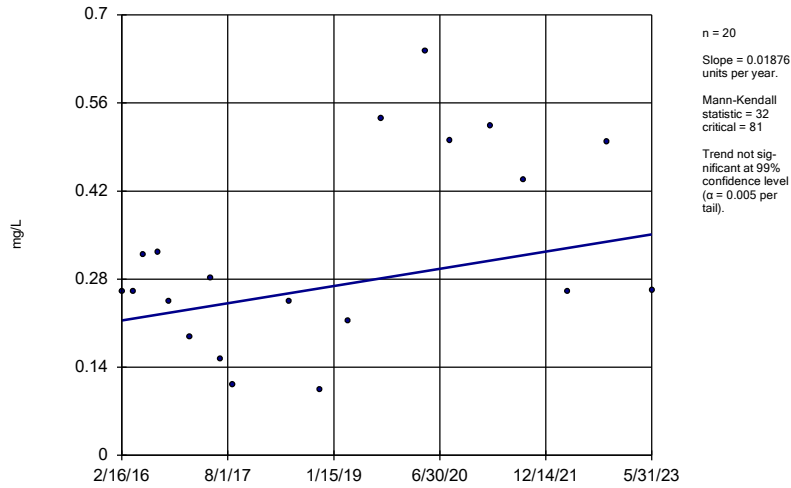


n = 20  
 Slope = 0.01095  
 units per year.  
 Mann-Kendall  
 statistic = 24  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron Analysis Run 7/14/2023 2:25 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

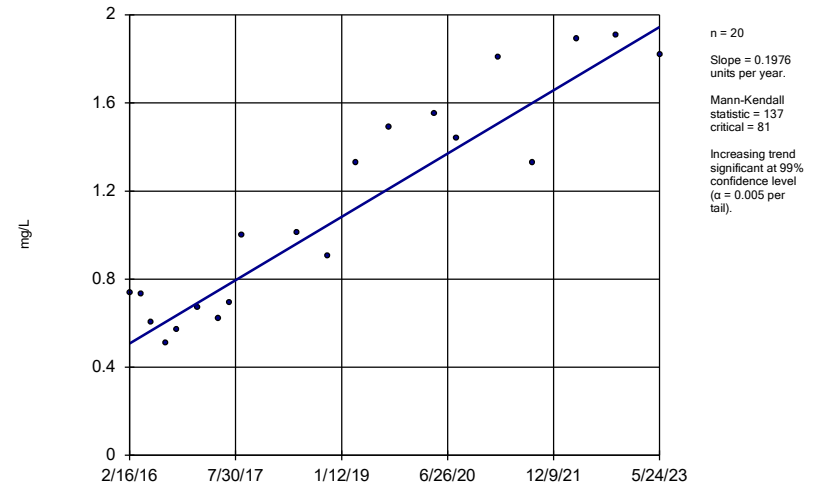
GC-AP-MW-13



Constituent: Boron Analysis Run 7/14/2023 2:25 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

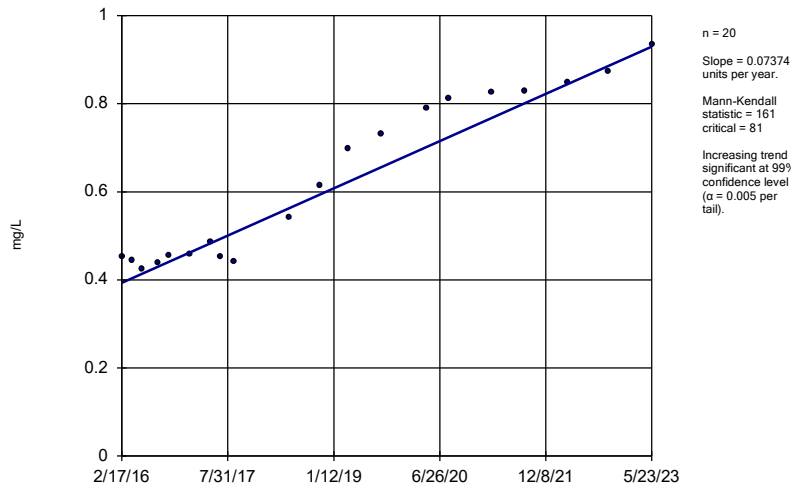
GC-AP-MW-14



Constituent: Boron Analysis Run 7/14/2023 2:25 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

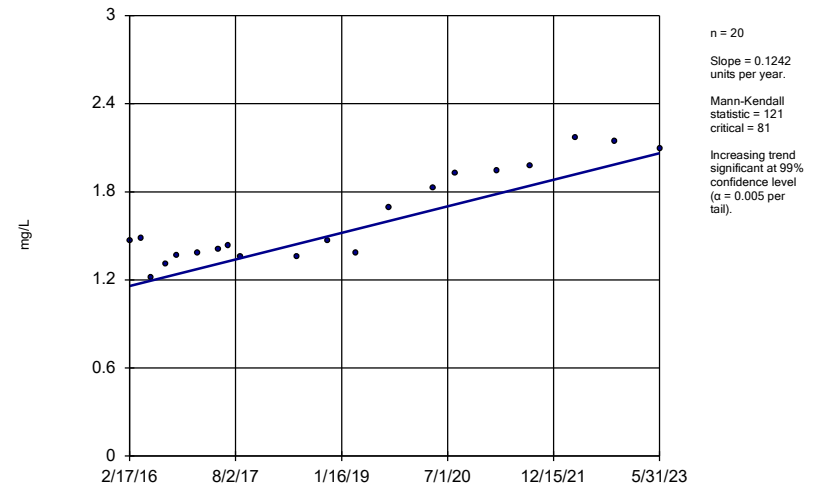
GC-AP-MW-15



Constituent: Boron Analysis Run 7/14/2023 2:25 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

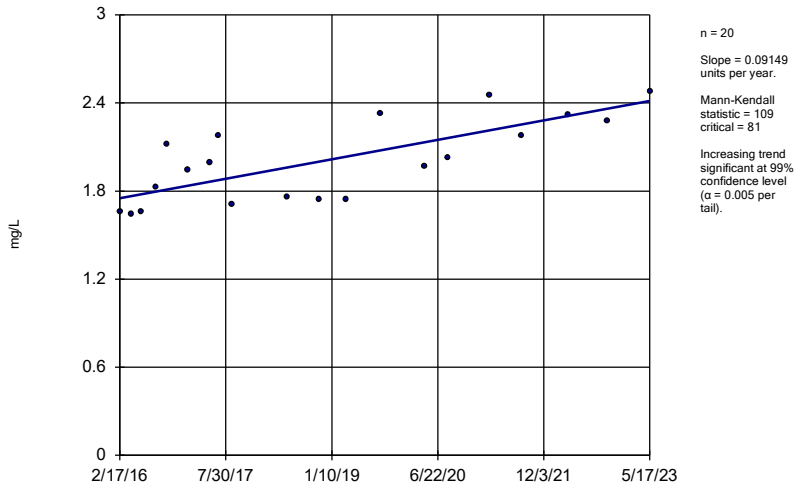
GC-AP-MW-16



Constituent: Boron Analysis Run 7/14/2023 2:25 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

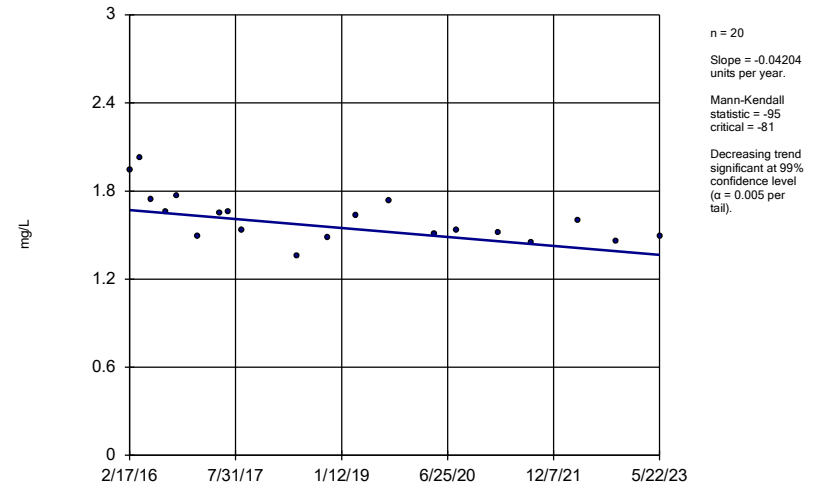
GC-AP-MW-17



Constituent: Boron Analysis Run 7/14/2023 2:25 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

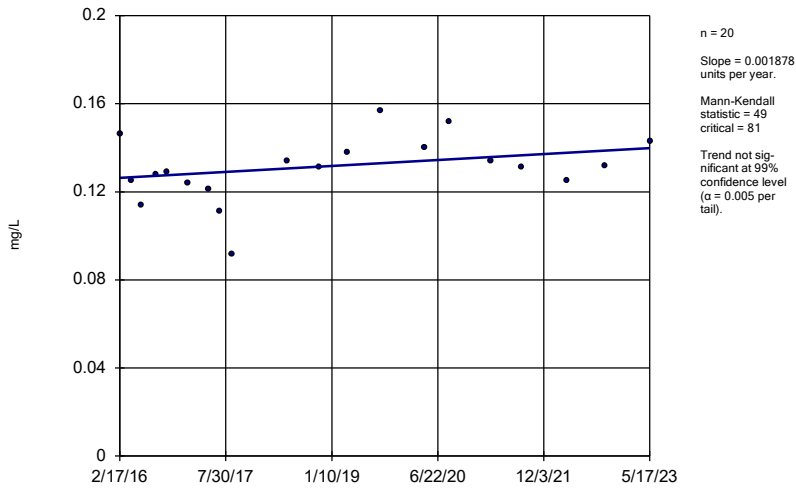
GC-AP-MW-18



Constituent: Boron Analysis Run 7/14/2023 2:25 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

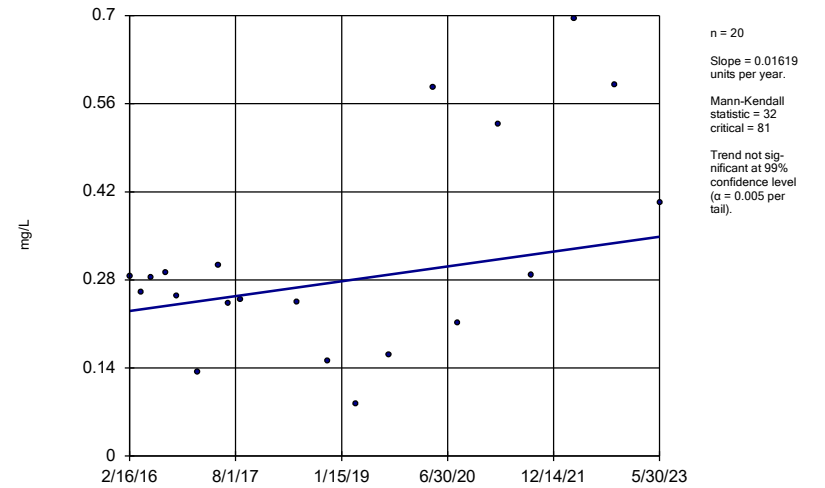
GC-AP-MW-2



Constituent: Boron Analysis Run 7/14/2023 2:25 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

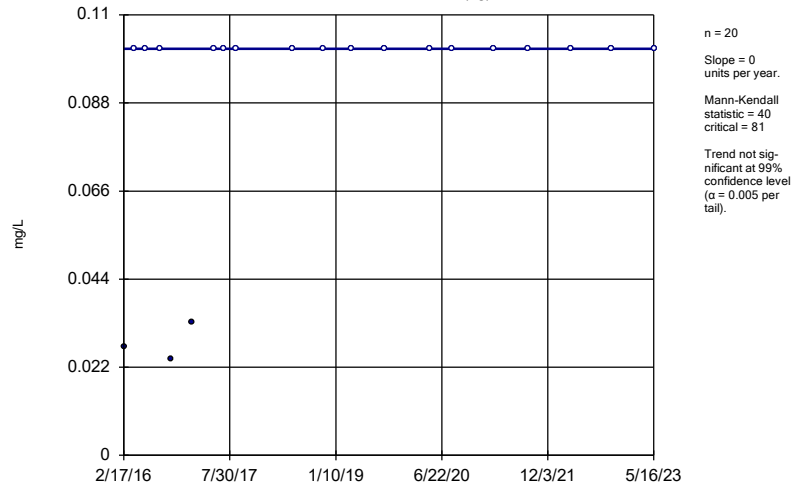
GC-AP-MW-21



Constituent: Boron Analysis Run 7/14/2023 2:25 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

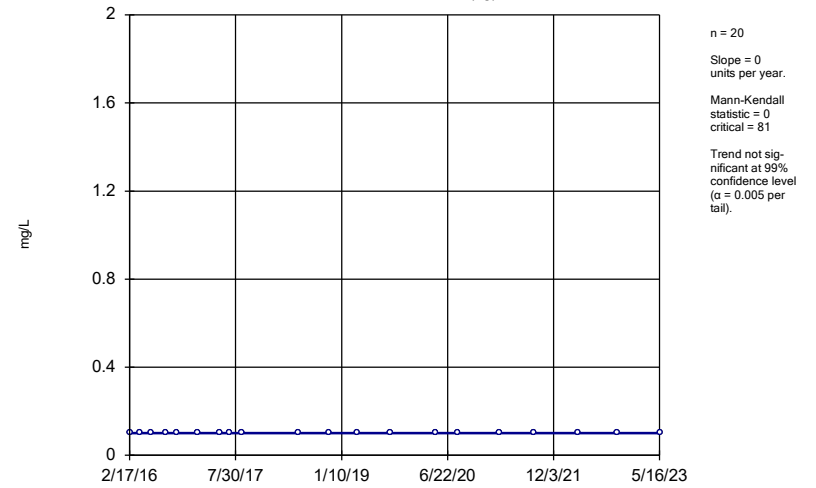
GC-AP-MW-23 (bg)



Constituent: Boron Analysis Run 7/14/2023 2:25 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

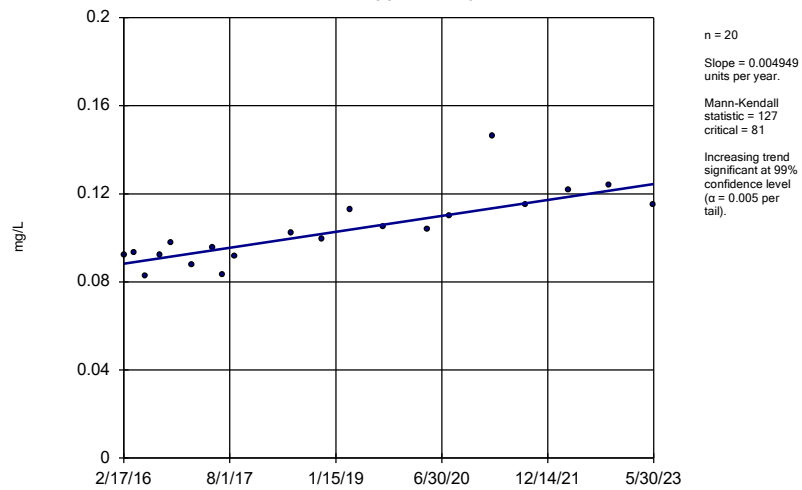
GC-AP-MW-24 (bg)



Constituent: Boron Analysis Run 7/14/2023 2:25 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

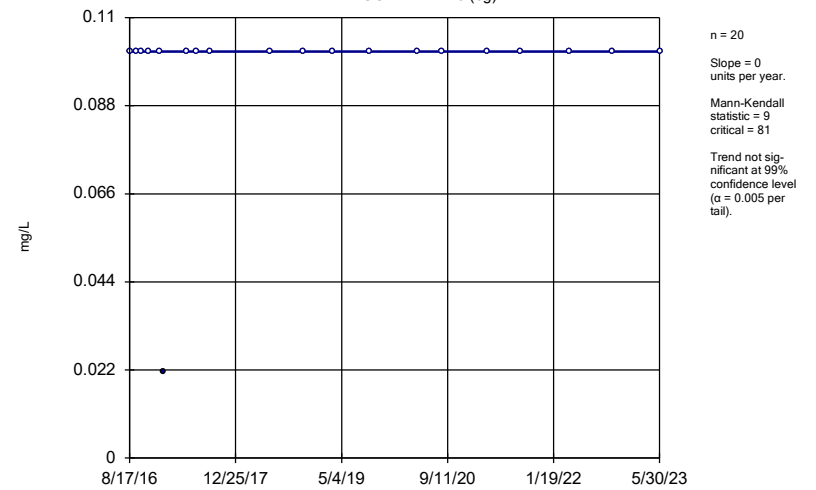
GC-AP-MW-25



Constituent: Boron Analysis Run 7/14/2023 2:25 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

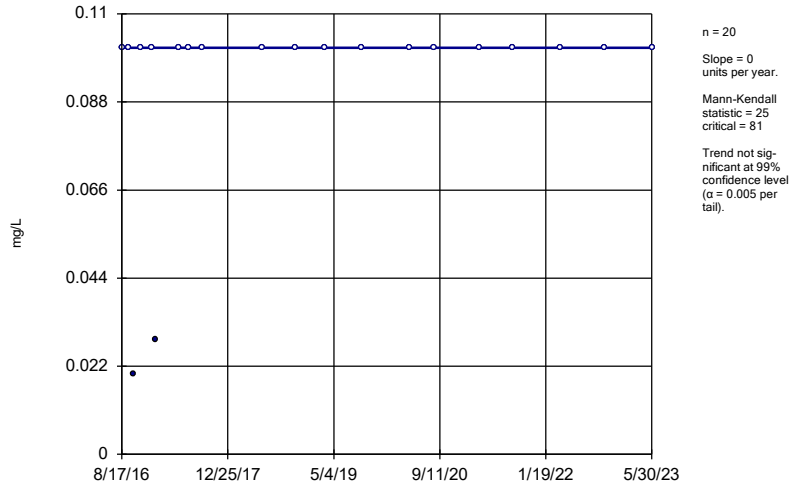
GC-AP-MW-26 (bg)



Constituent: Boron Analysis Run 7/14/2023 2:25 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

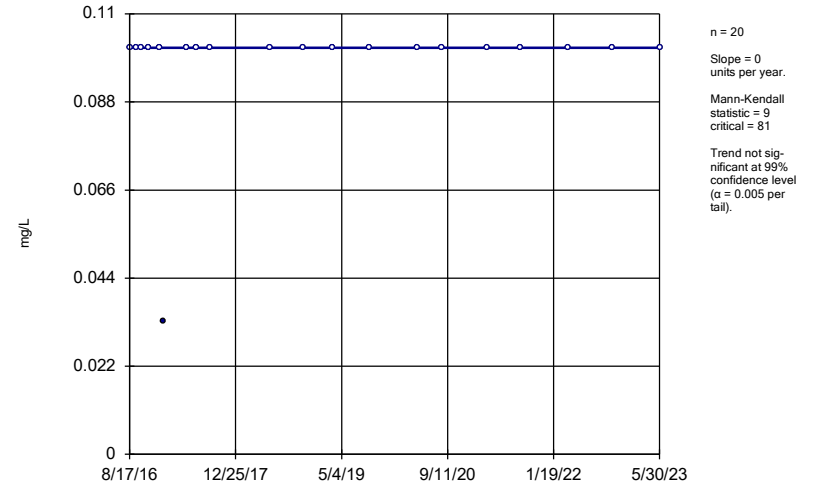
GC-AP-MW-27 (bg)



Constituent: Boron Analysis Run 7/14/2023 2:25 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

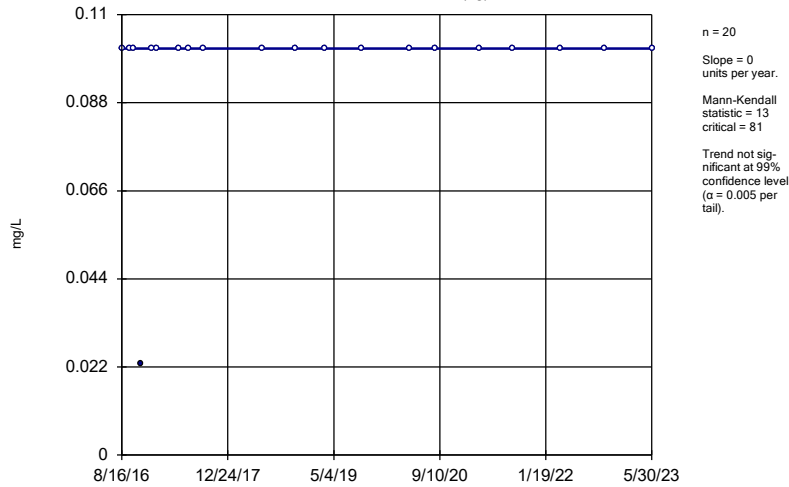
GC-AP-MW-28 (bg)



Constituent: Boron Analysis Run 7/14/2023 2:25 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

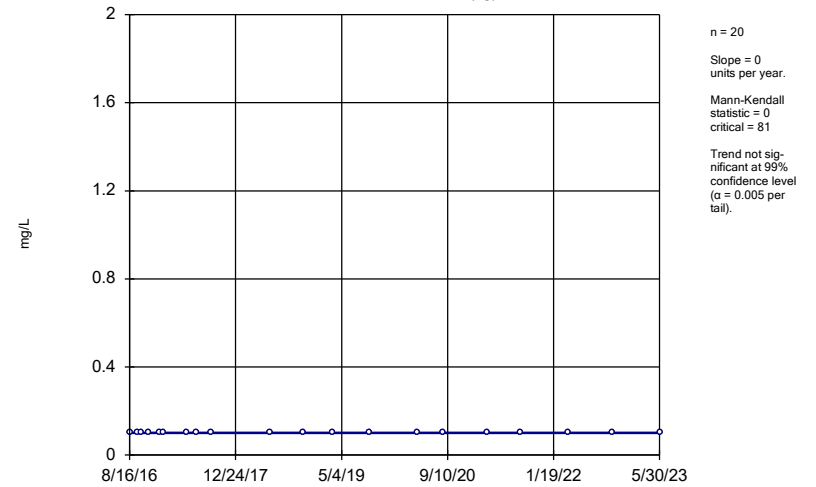
GC-AP-MW-29 (bg)



Constituent: Boron Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-30 (bg)

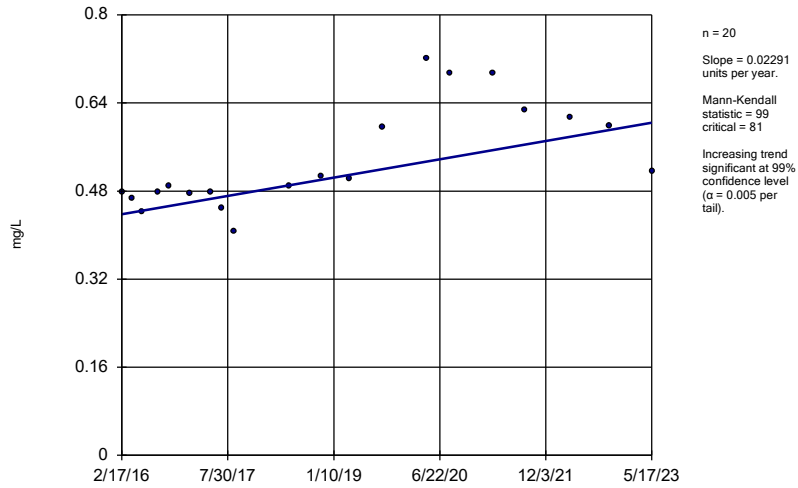


Constituent: Boron Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP



### Sen's Slope Estimator

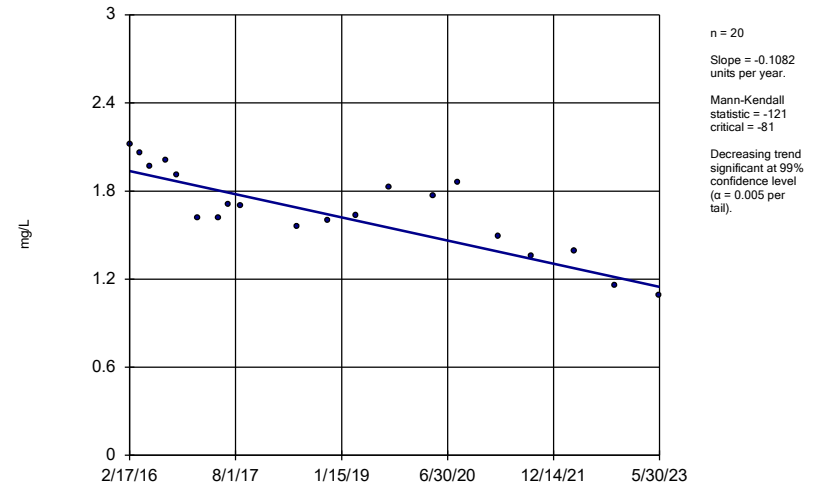
GC-AP-MW-5



Constituent: Boron Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

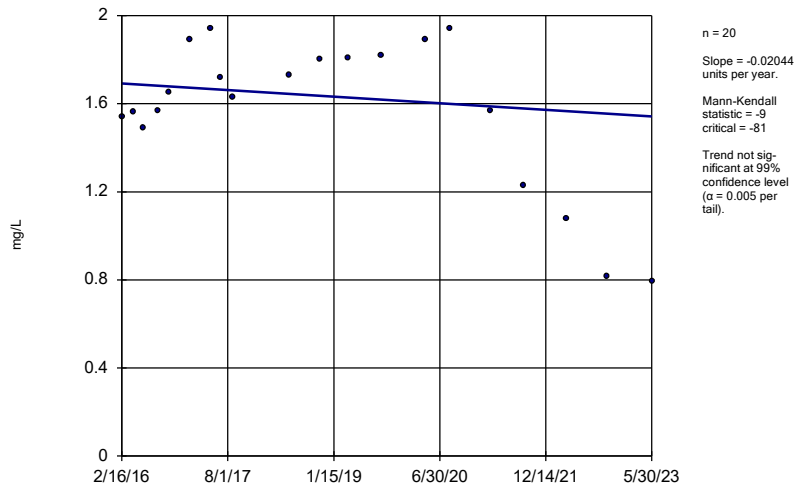
GC-AP-MW-6



Constituent: Boron Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

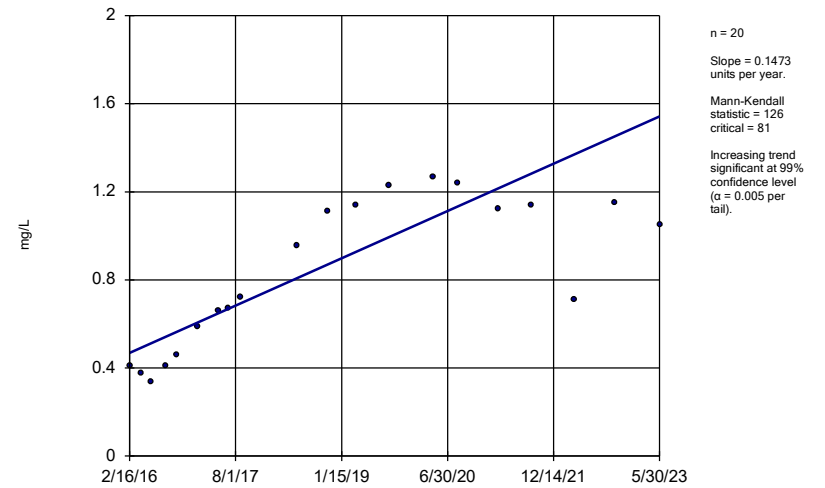
GC-AP-MW-8



Constituent: Boron Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

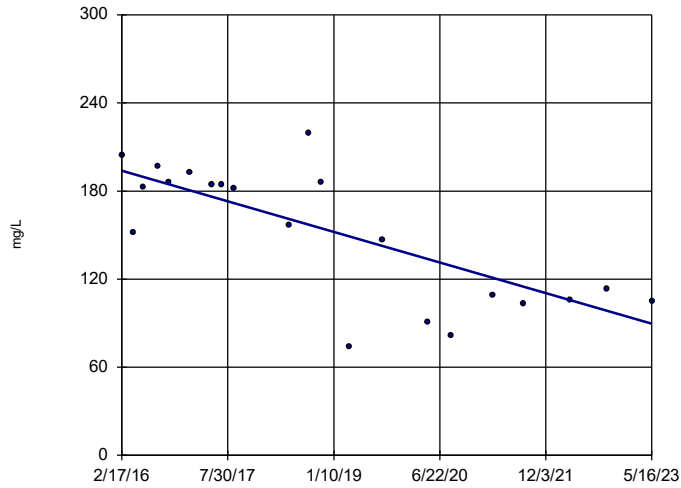
GC-AP-MW-9



Constituent: Boron Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

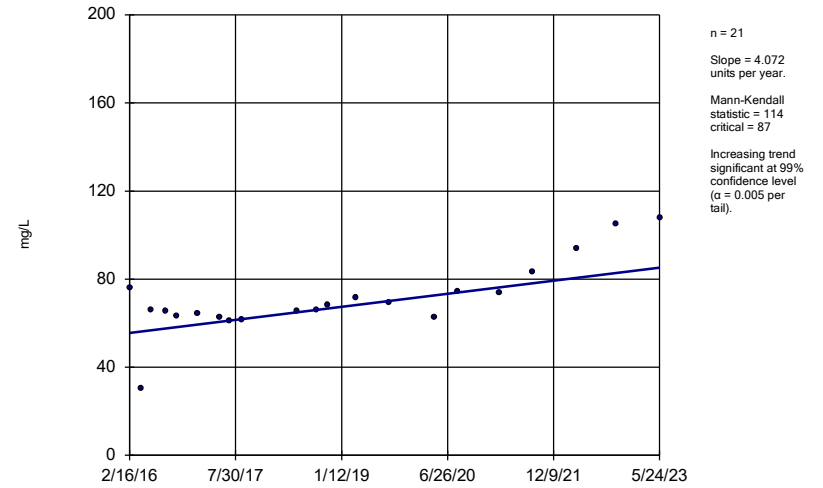
GC-AP-MW-1



Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

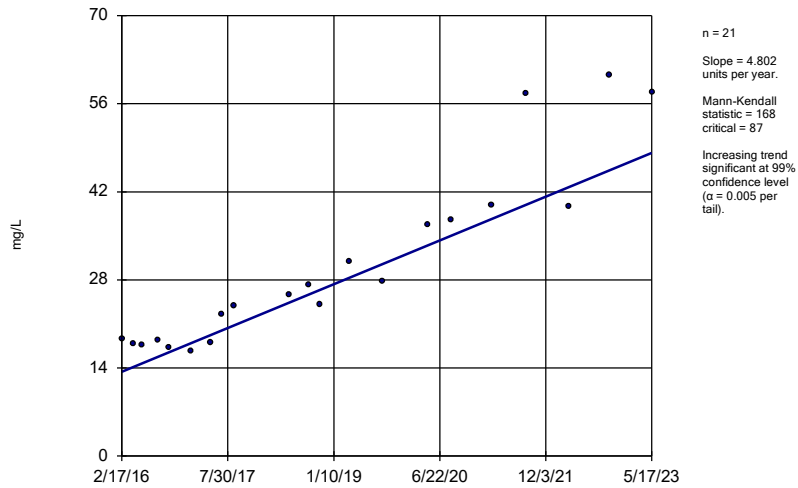
GC-AP-MW-10



Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

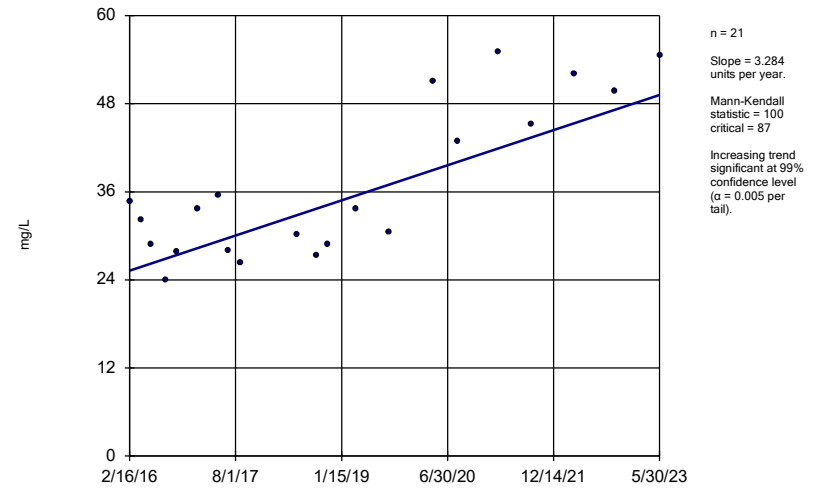
GC-AP-MW-11



Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

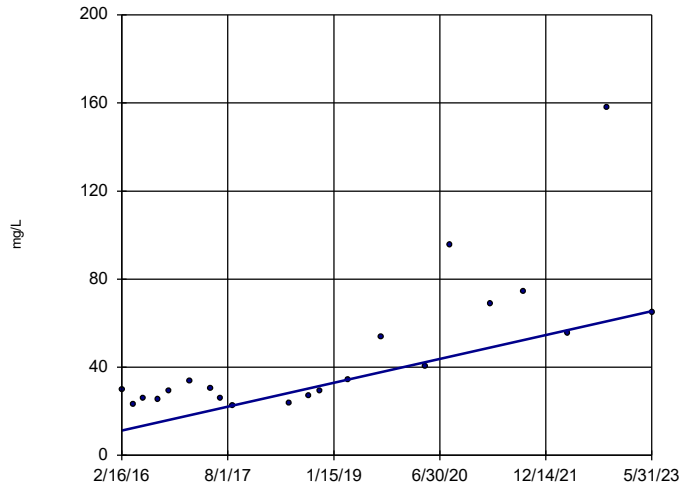
GC-AP-MW-12



Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-13

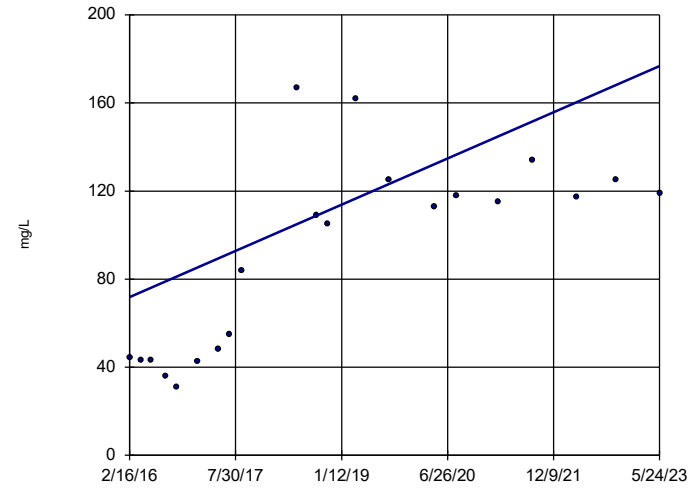


n = 21  
 Slope = 7.423  
 units per year.  
 Mann-Kendall  
 statistic = 124  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-14

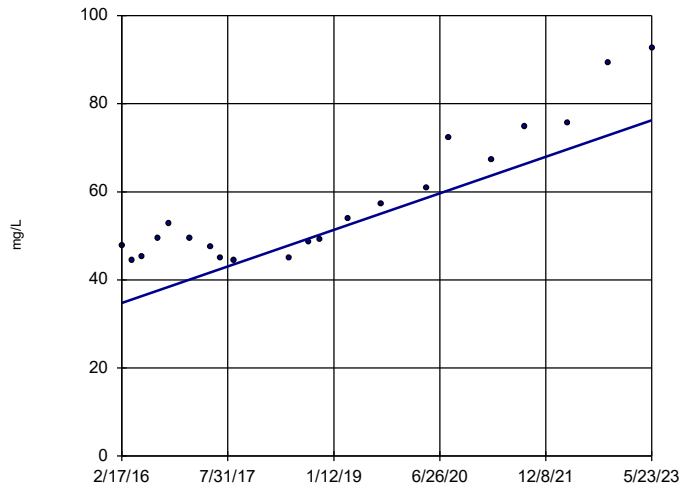


n = 21  
 Slope = 14.42  
 units per year.  
 Mann-Kendall  
 statistic = 121  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-15

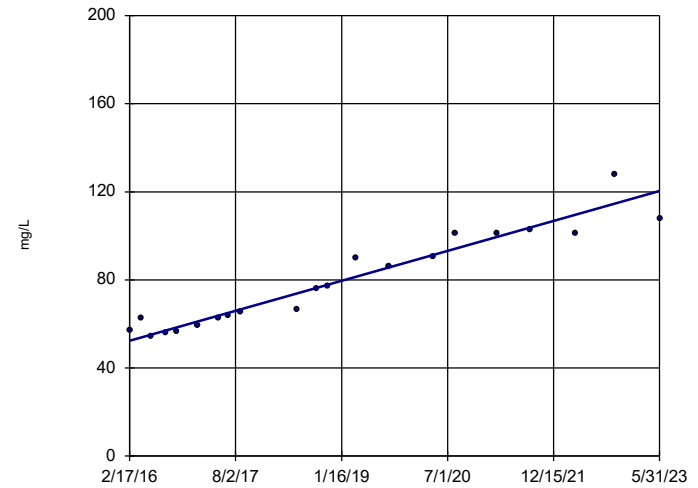


n = 21  
 Slope = 5.714  
 units per year.  
 Mann-Kendall  
 statistic = 142  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-16

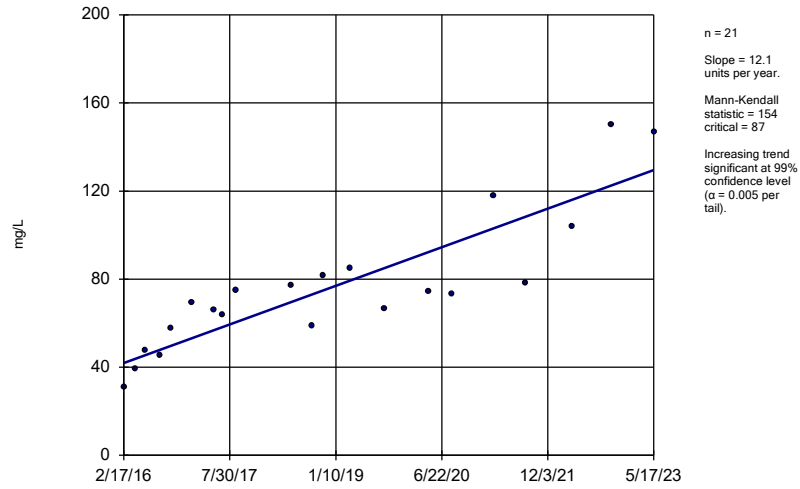


n = 21  
 Slope = 9.333  
 units per year.  
 Mann-Kendall  
 statistic = 186  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

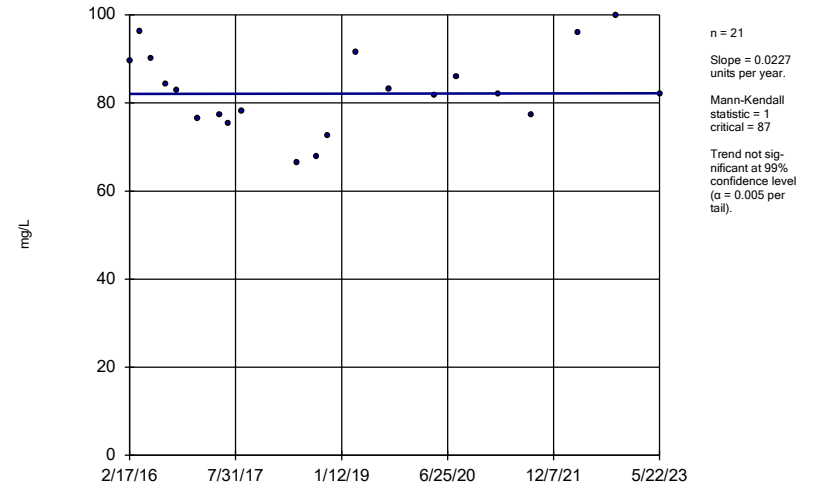
GC-AP-MW-17



Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

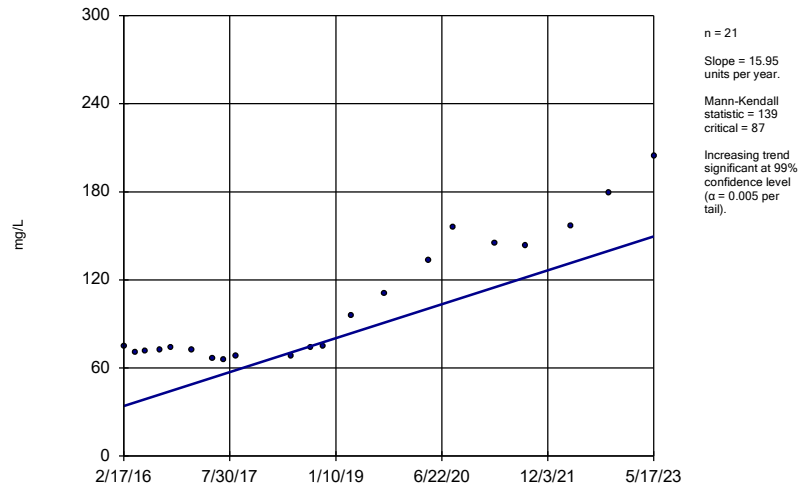
GC-AP-MW-18



Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

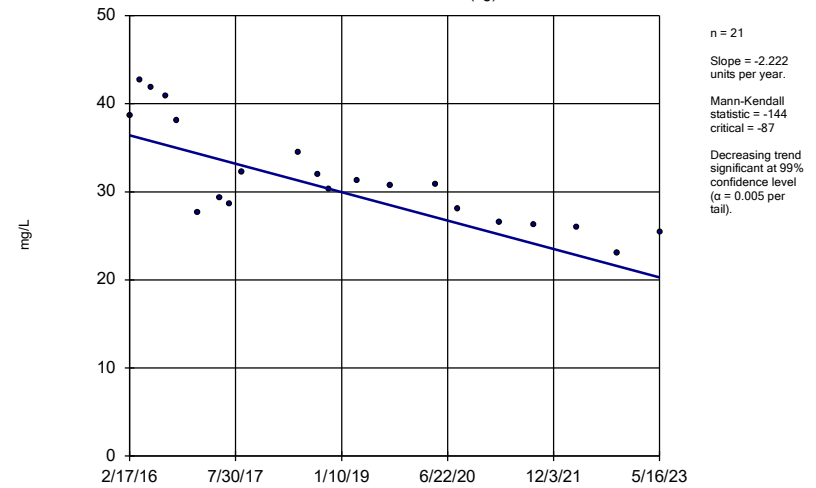
GC-AP-MW-2



Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

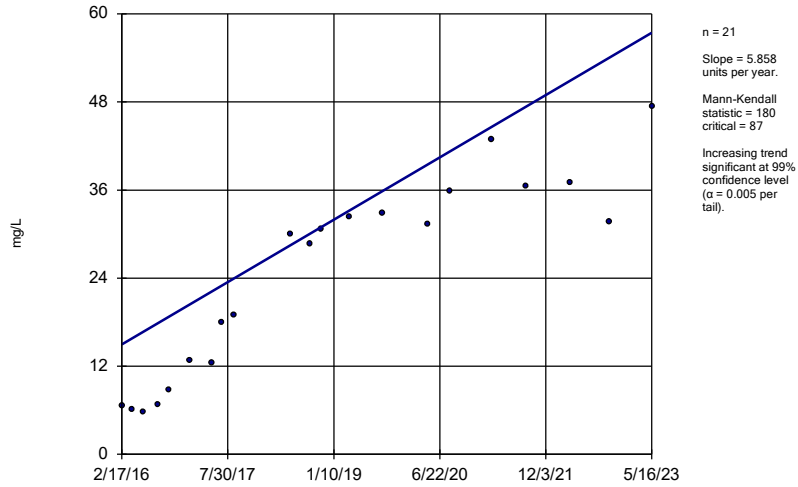
GC-AP-MW-23 (bg)



Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

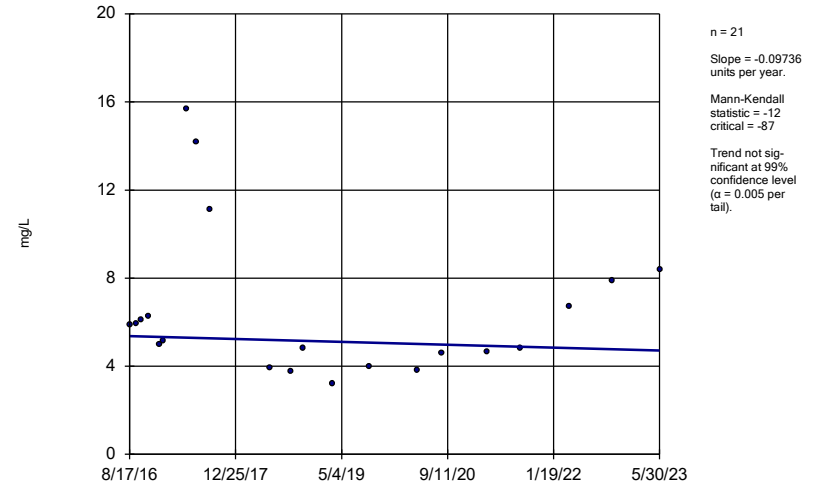
GC-AP-MW-24 (bg)



Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

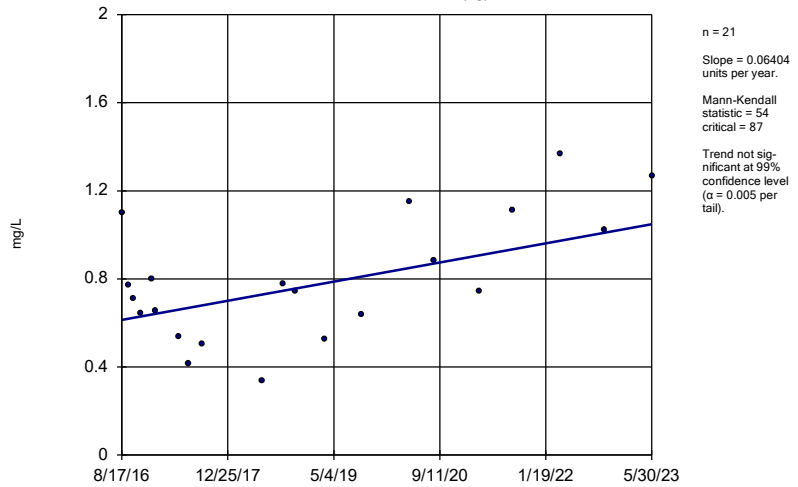
GC-AP-MW-26 (bg)



Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

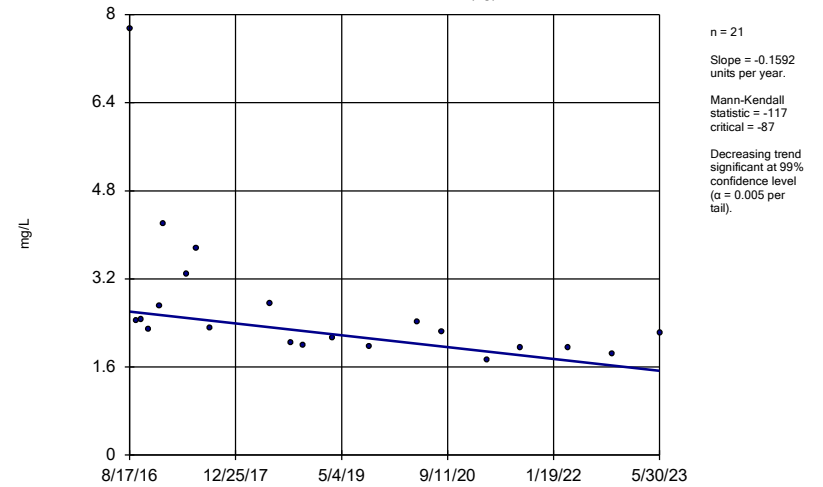
GC-AP-MW-27 (bg)



Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

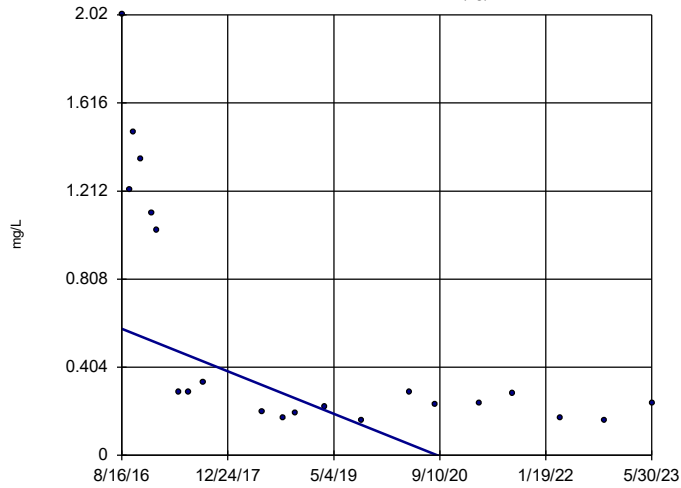
GC-AP-MW-28 (bg)



Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-29 (bg)

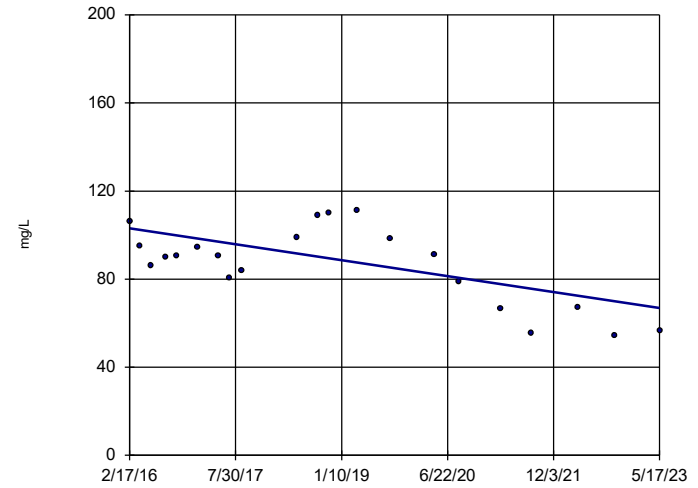


n = 21  
 Slope = -0.1436  
 units per year.  
 Mann-Kendall  
 statistic = -125  
 critical = -87  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-3

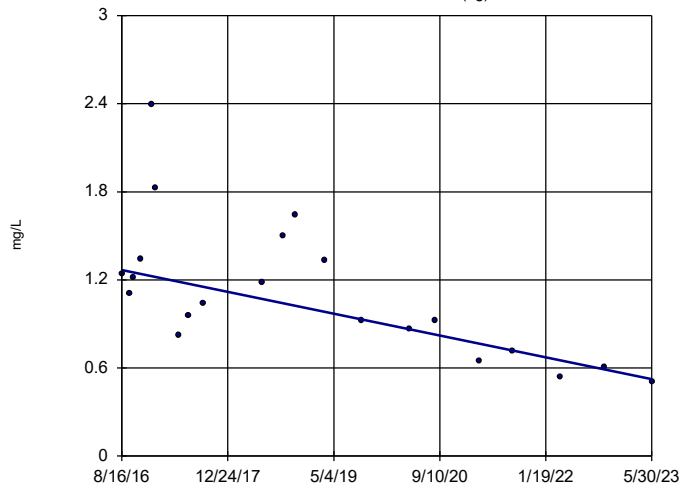


n = 21  
 Slope = -5.003  
 units per year.  
 Mann-Kendall  
 statistic = -74  
 critical = -87  
 Trend not sign-  
 ificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-30 (bg)

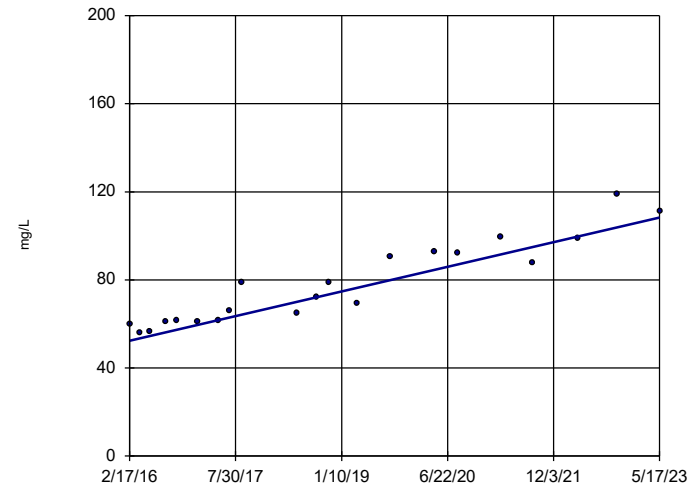


n = 21  
 Slope = -0.1095  
 units per year.  
 Mann-Kendall  
 statistic = -110  
 critical = -87  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-5

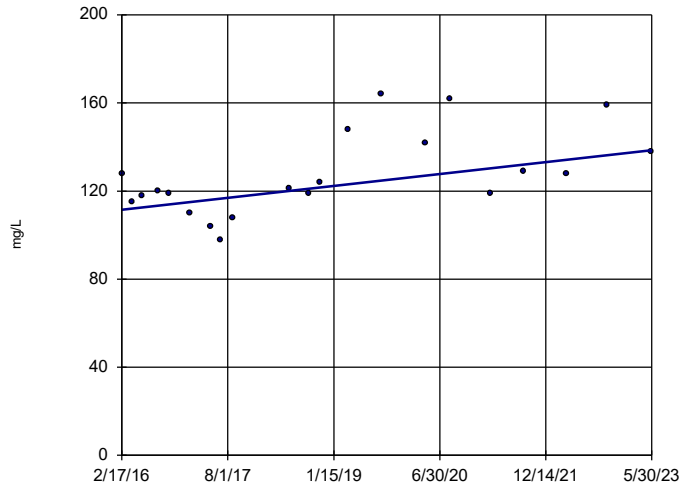


n = 21  
 Slope = 7.704  
 units per year.  
 Mann-Kendall  
 statistic = 176  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-6

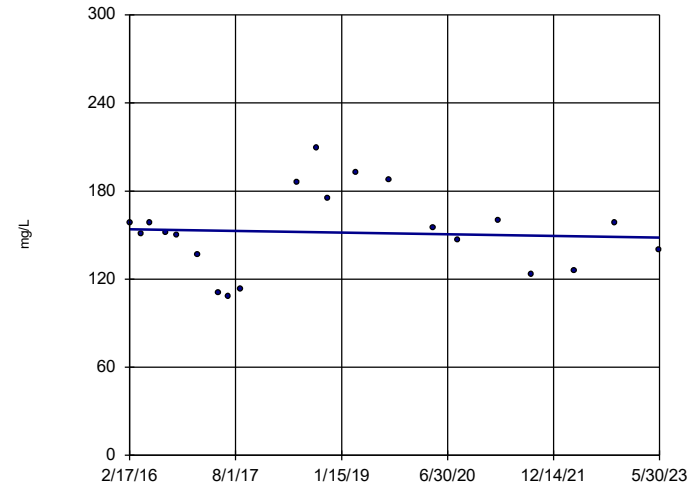


n = 21  
 Slope = 3.706  
 units per year.  
 Mann-Kendall  
 statistic = 84  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-7

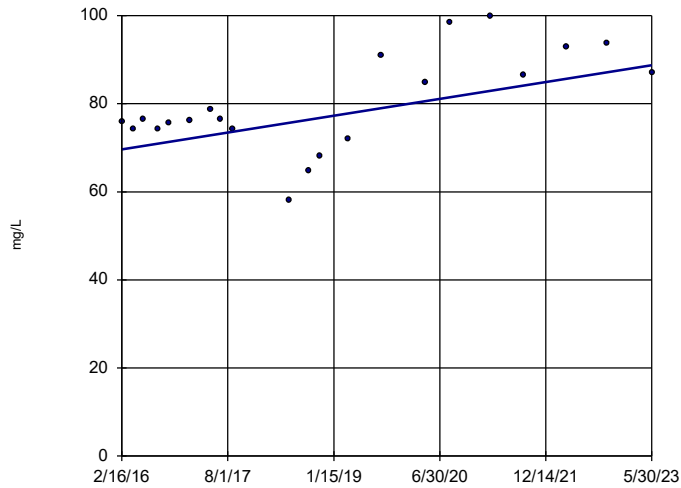


n = 21  
 Slope = -0.7744  
 units per year.  
 Mann-Kendall  
 statistic = -7  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-8

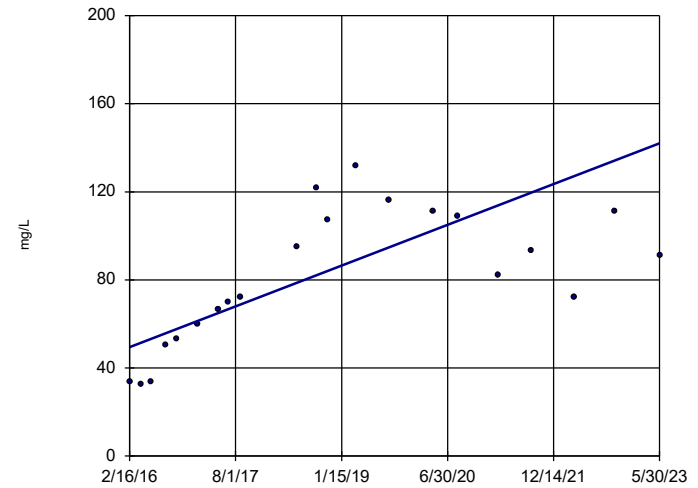


n = 21  
 Slope = 2.62  
 units per year.  
 Mann-Kendall  
 statistic = 82  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-9

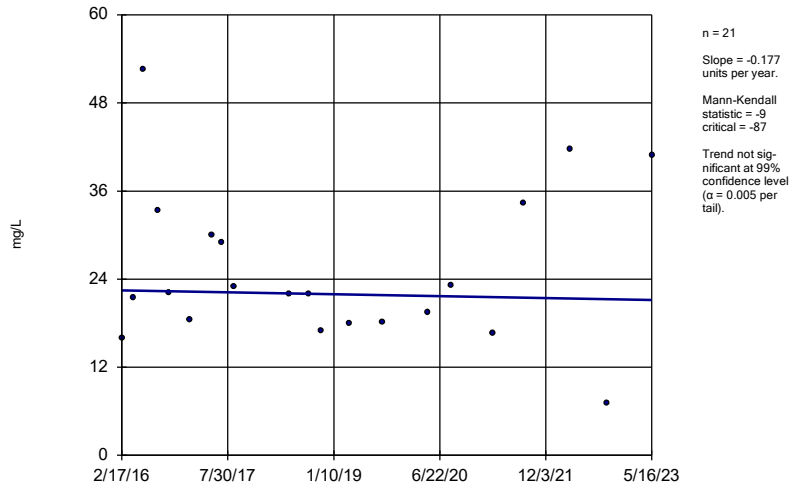


n = 21  
 Slope = 12.71  
 units per year.  
 Mann-Kendall  
 statistic = 116  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

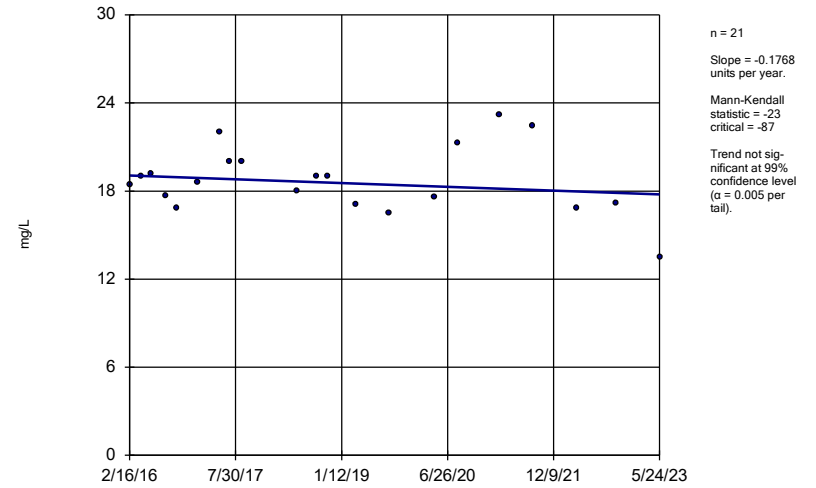
GC-AP-MW-1



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

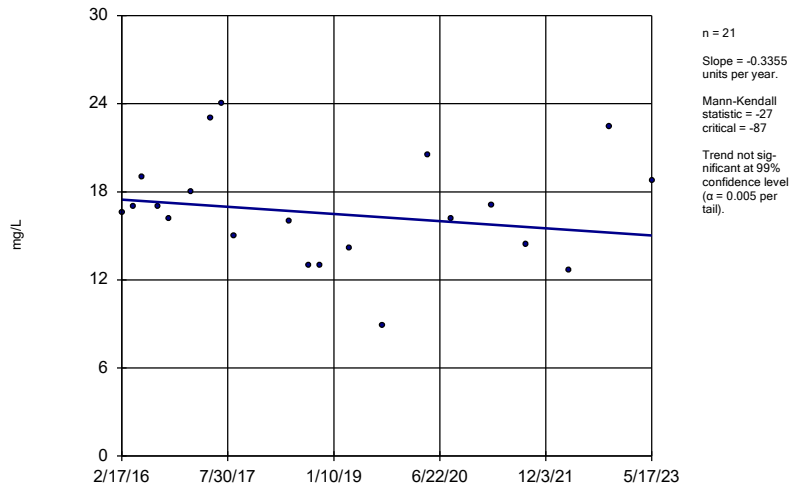
GC-AP-MW-10



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

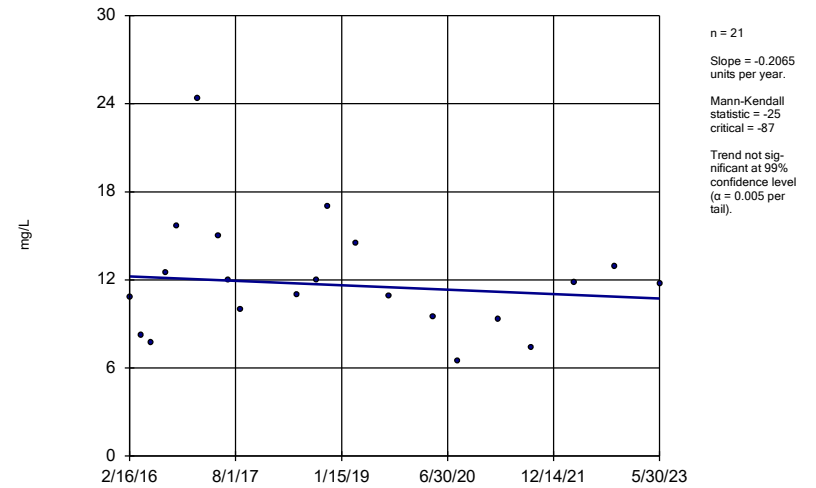
GC-AP-MW-11



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-12

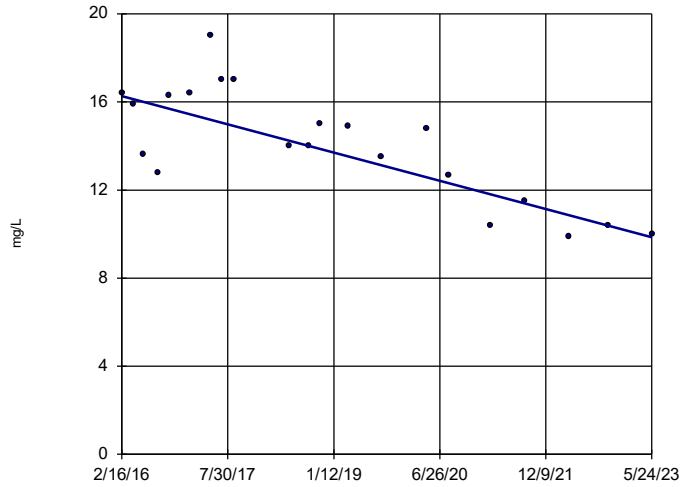


Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP



### Sen's Slope Estimator

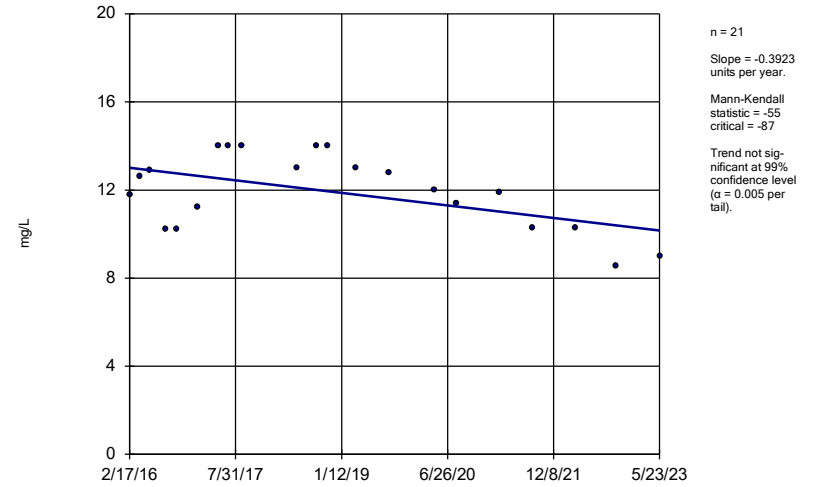
GC-AP-MW-14



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

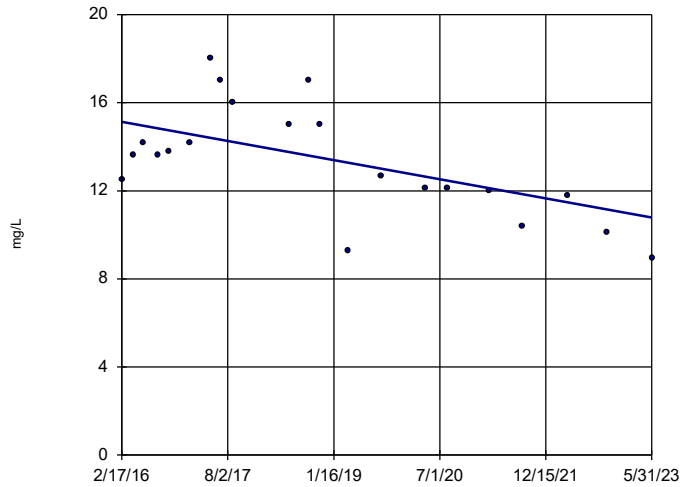
GC-AP-MW-15



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

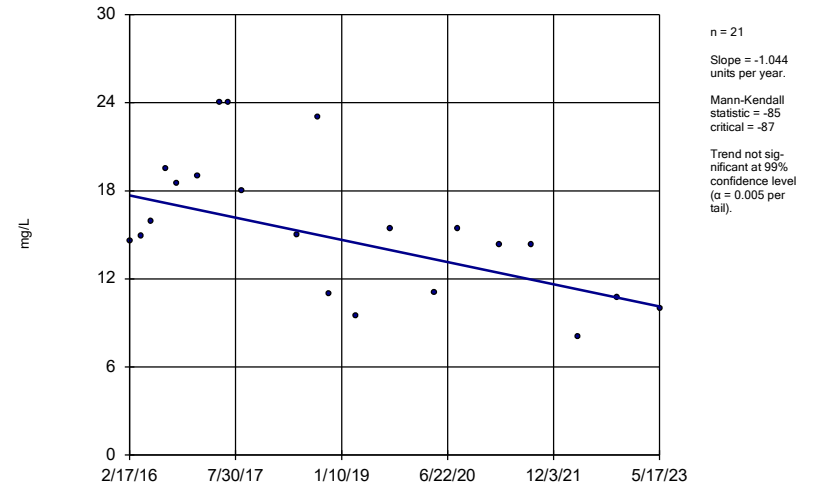
GC-AP-MW-16



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

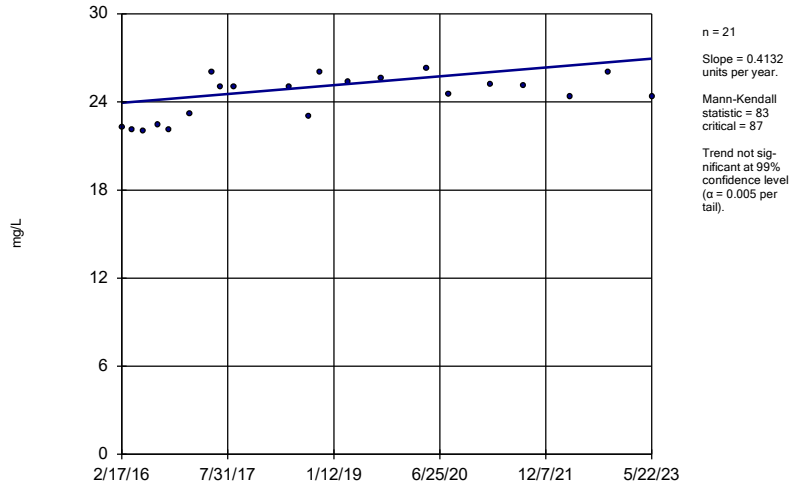
GC-AP-MW-17



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

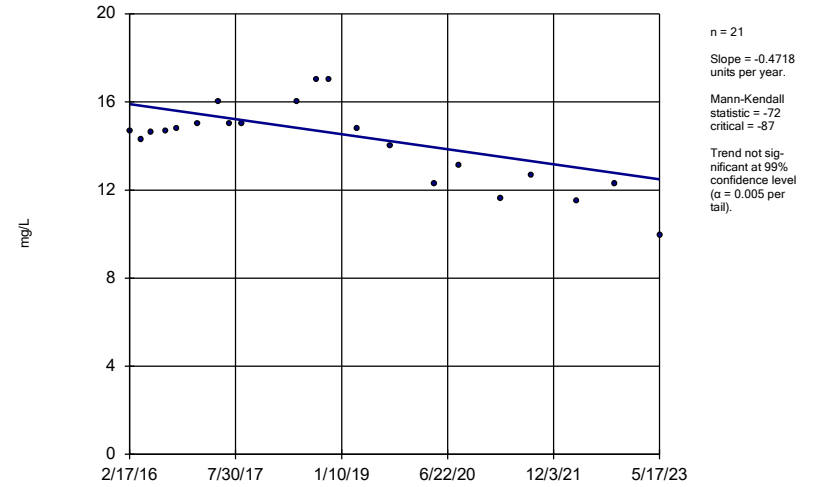
GC-AP-MW-18



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

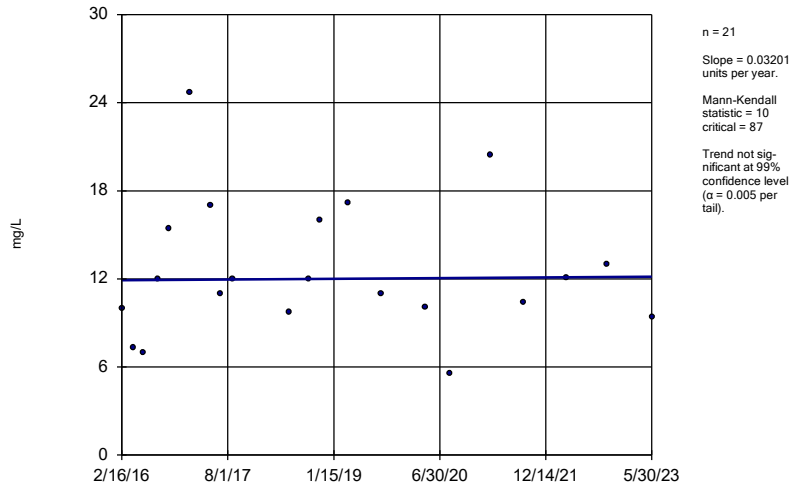
GC-AP-MW-2



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

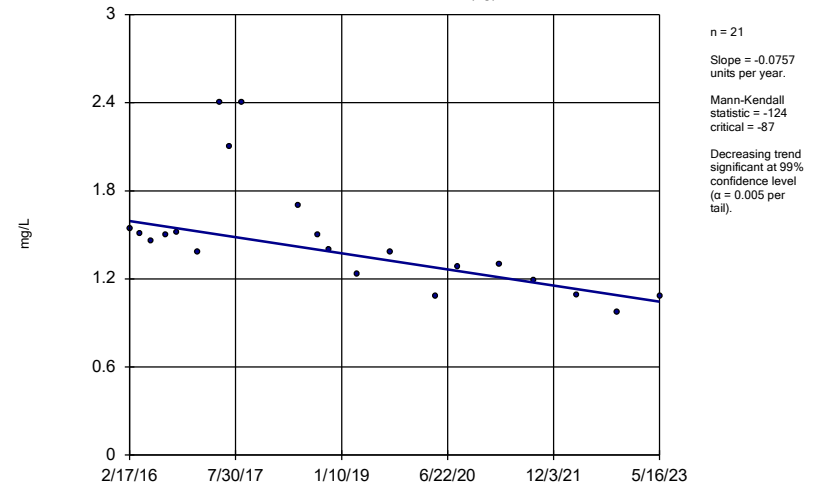
GC-AP-MW-21



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

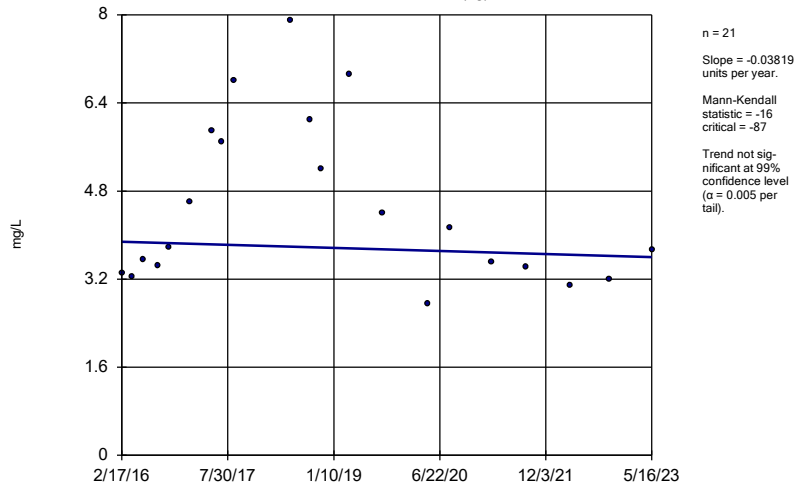
GC-AP-MW-23 (bg)



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

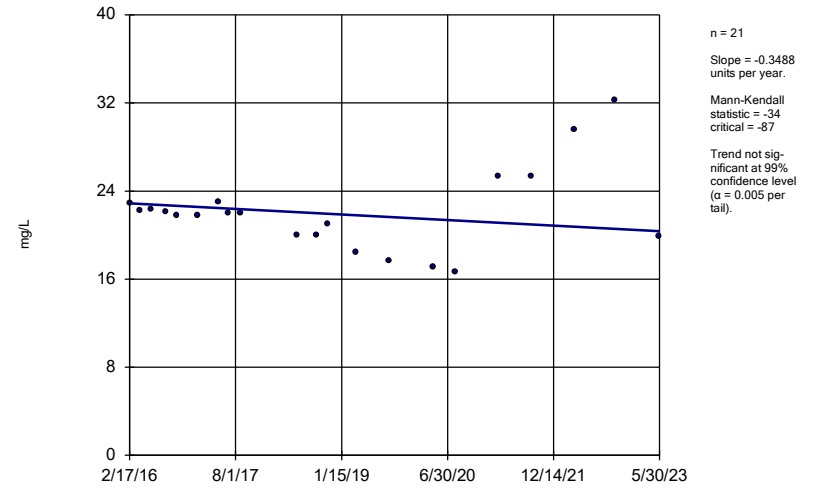
GC-AP-MW-24 (bg)



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

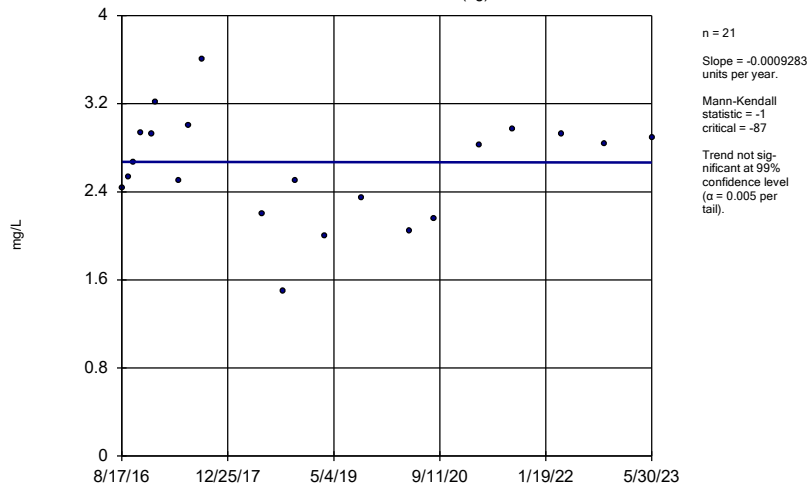
GC-AP-MW-25



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

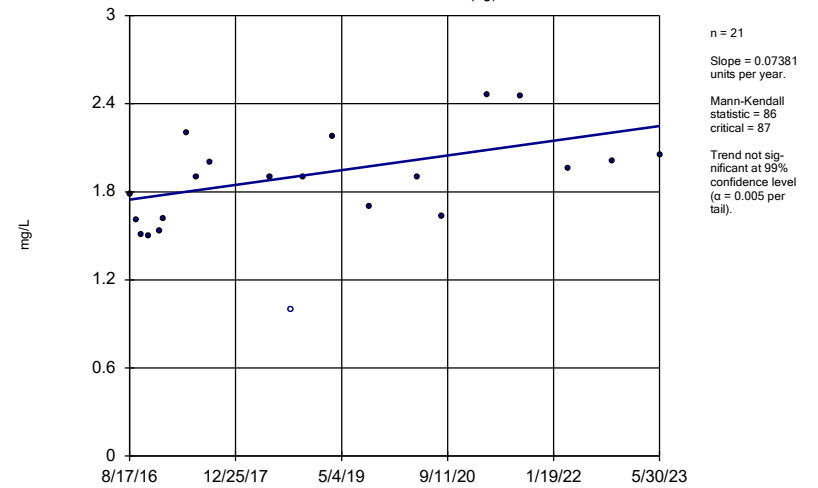
GC-AP-MW-26 (bg)



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

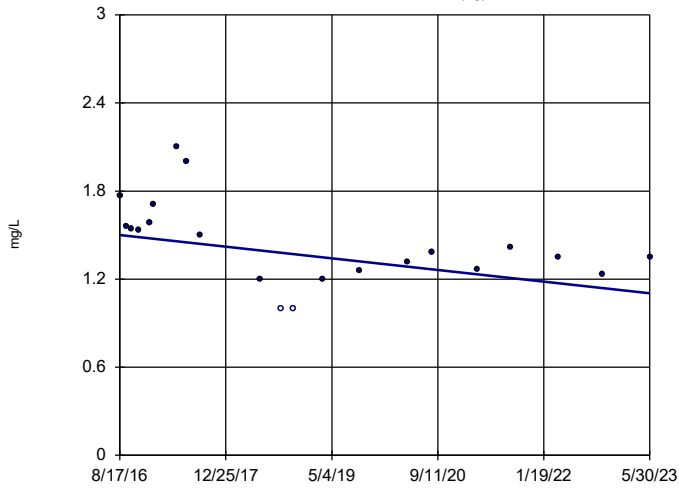
GC-AP-MW-27 (bg)



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

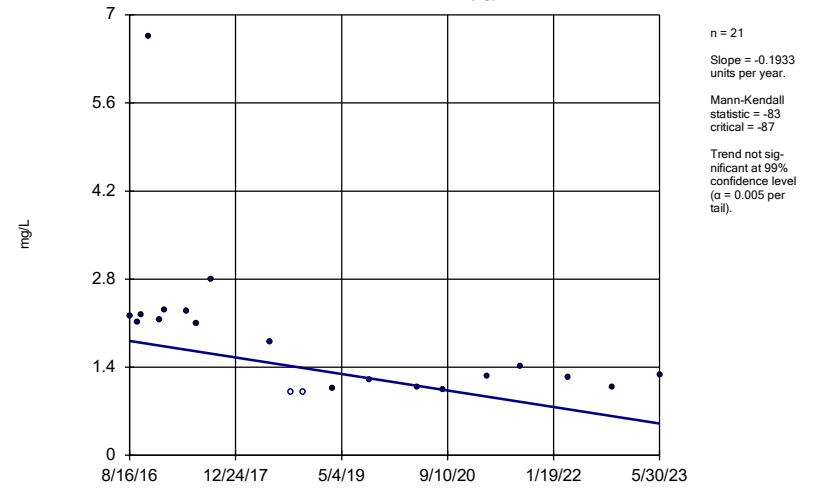
GC-AP-MW-28 (bg)



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

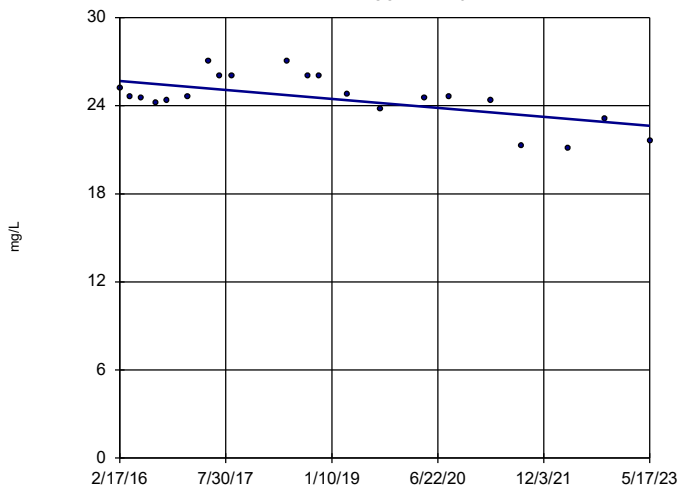
GC-AP-MW-29 (bg)



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

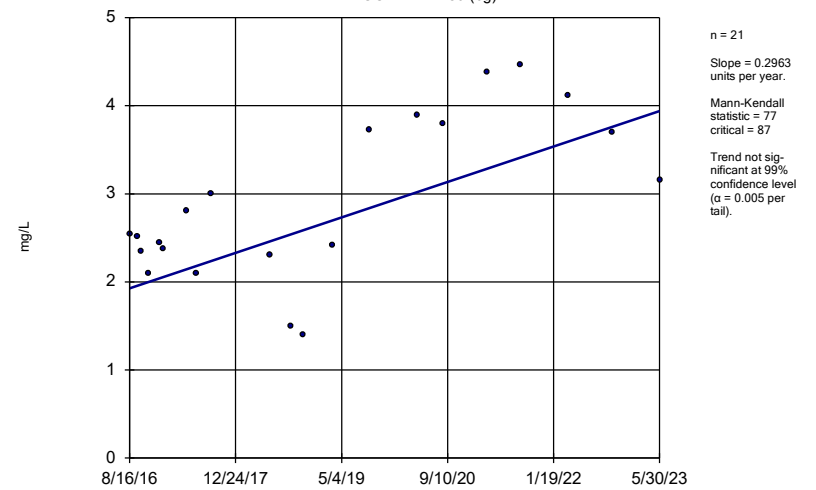
GC-AP-MW-3



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

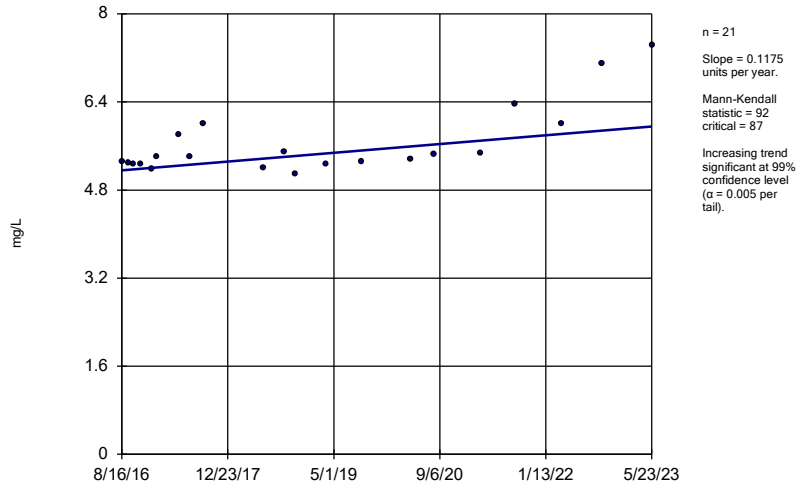
GC-AP-MW-30 (bg)



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

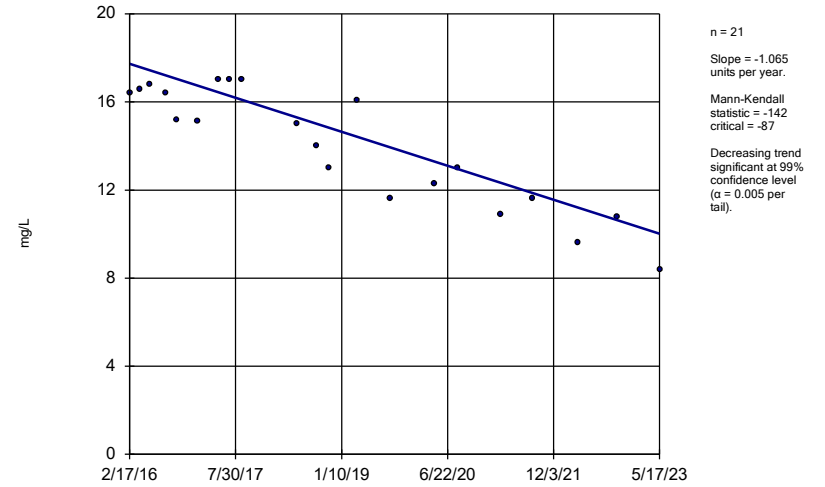
GC-AP-MW-31



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

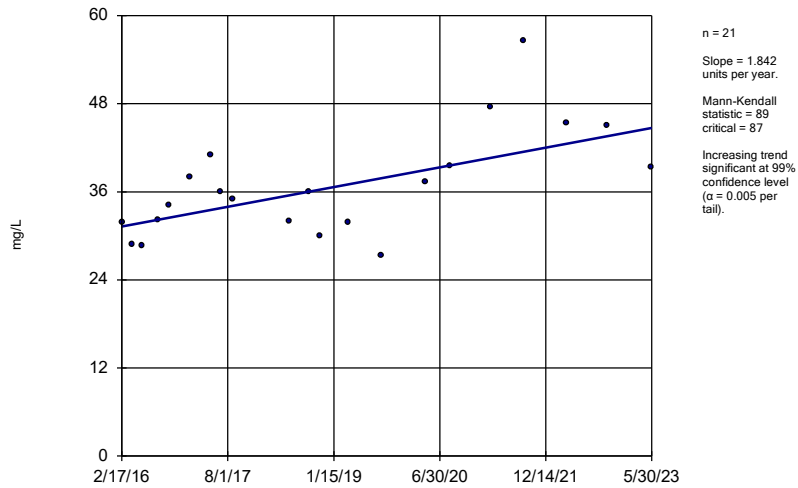
GC-AP-MW-5



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

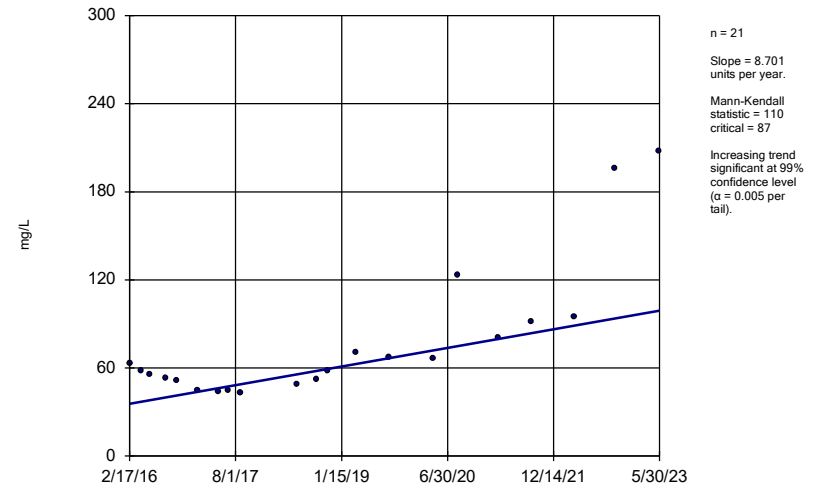
GC-AP-MW-6



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

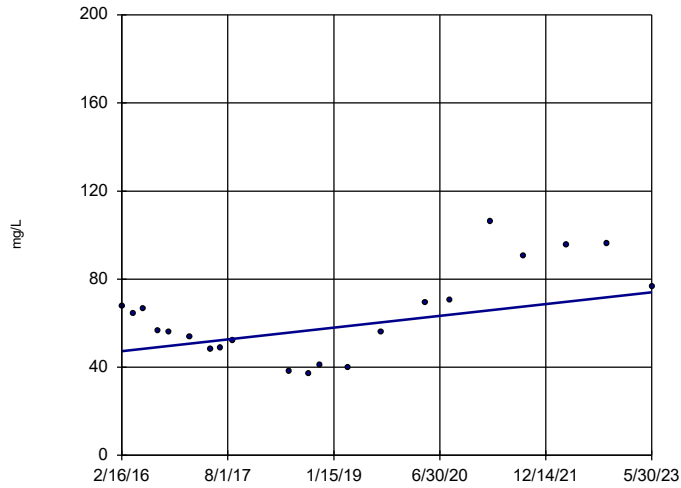
GC-AP-MW-7



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

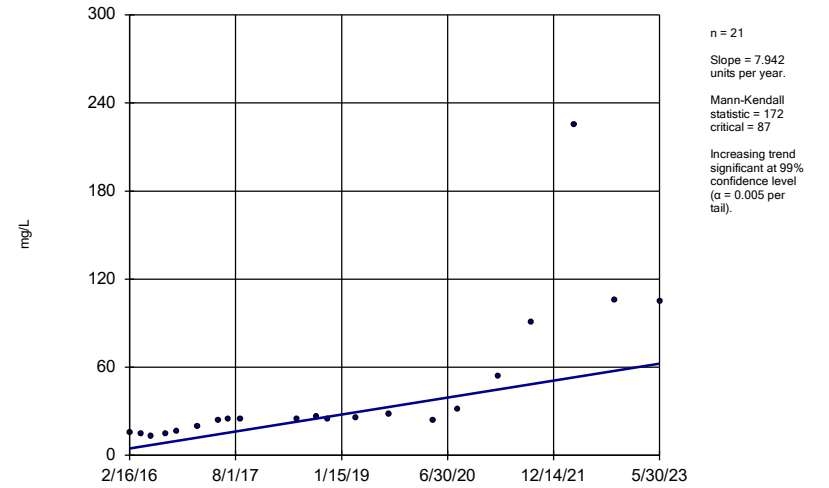
GC-AP-MW-8



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

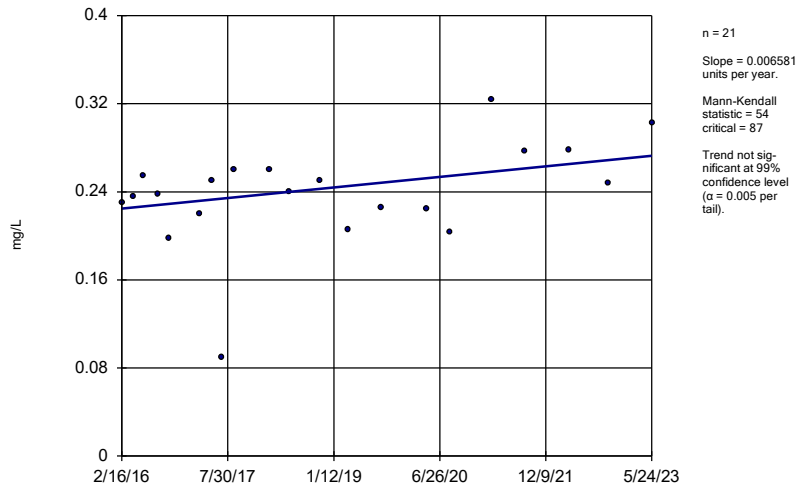
GC-AP-MW-9



Constituent: Chloride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

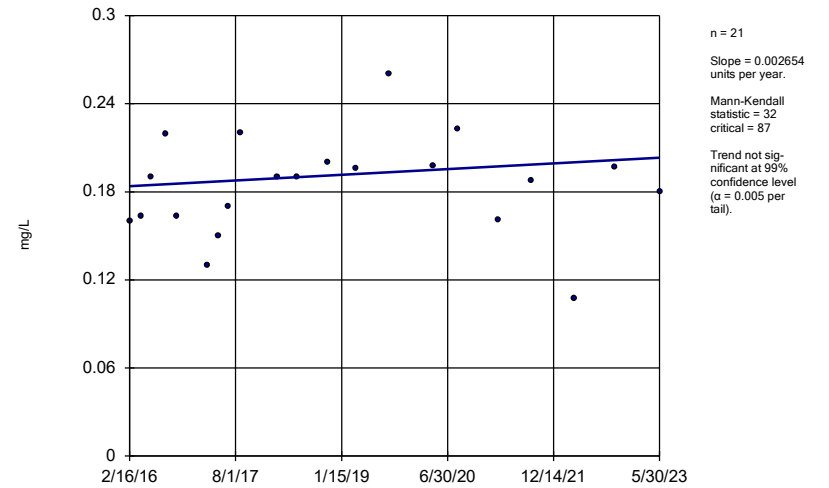
GC-AP-MW-10



Constituent: Fluoride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

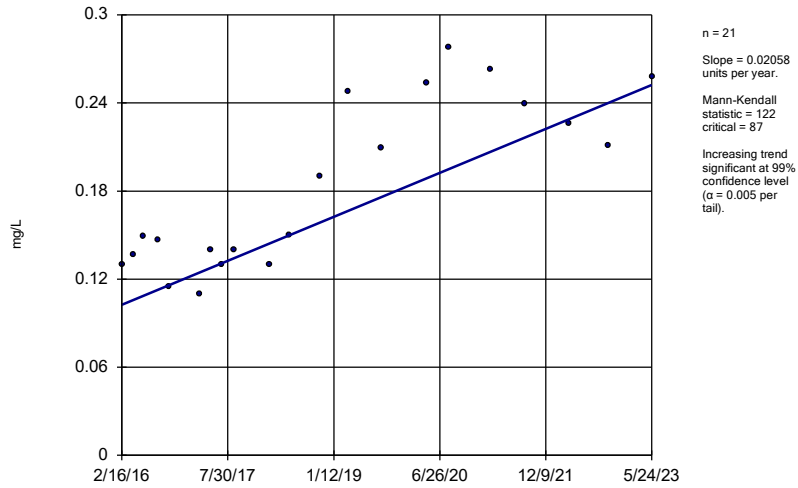
GC-AP-MW-12



Constituent: Fluoride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

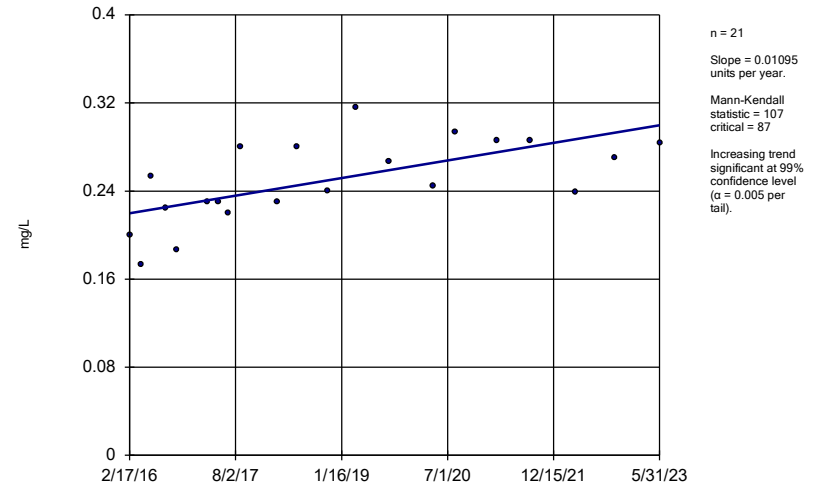
GC-AP-MW-14



Constituent: Fluoride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

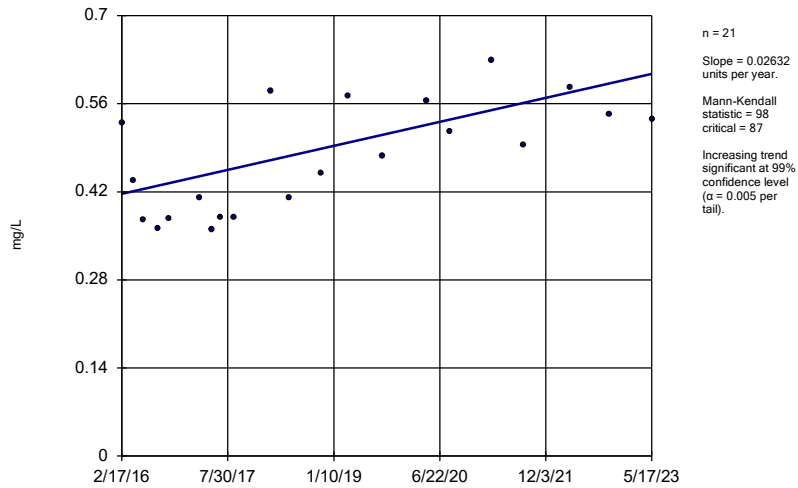
GC-AP-MW-16



Constituent: Fluoride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

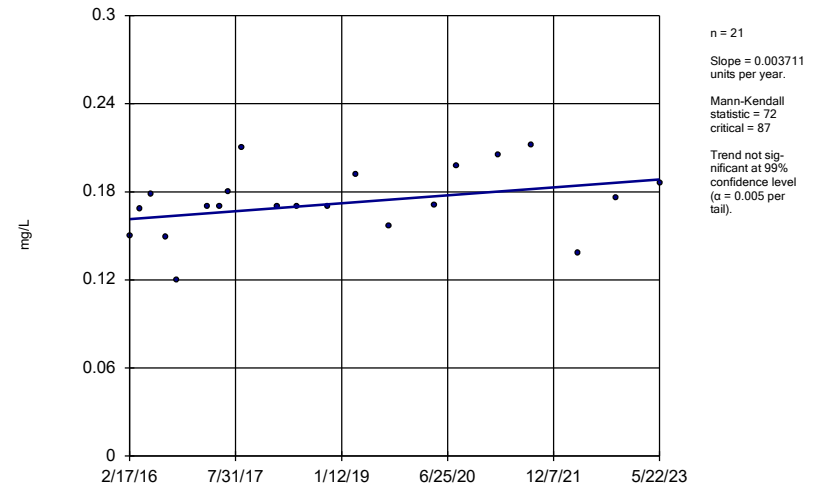
GC-AP-MW-17



Constituent: Fluoride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

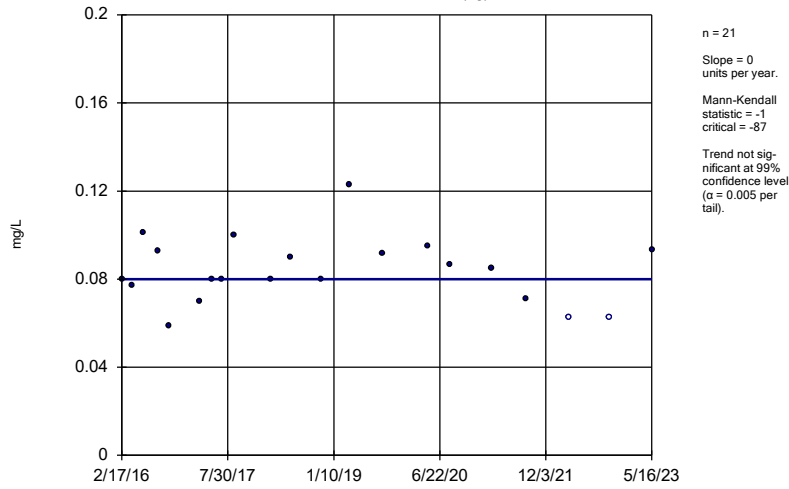
GC-AP-MW-18



Constituent: Fluoride Analysis Run 7/14/2023 2:26 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

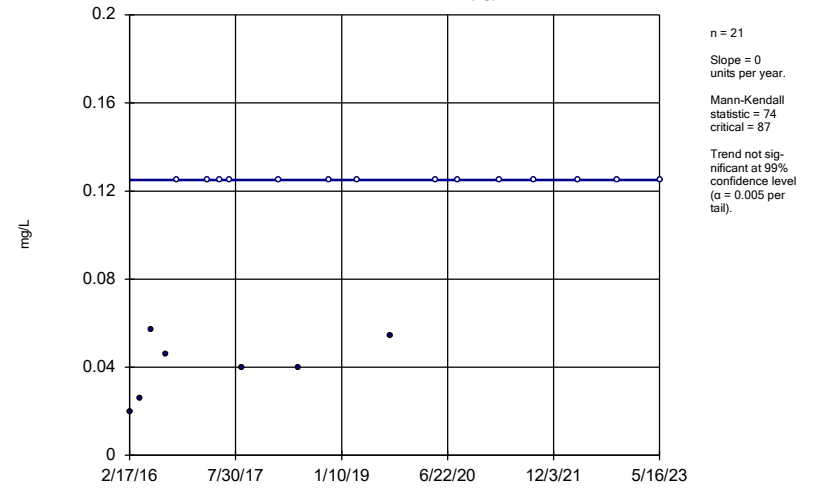
GC-AP-MW-23 (bg)



Constituent: Fluoride Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

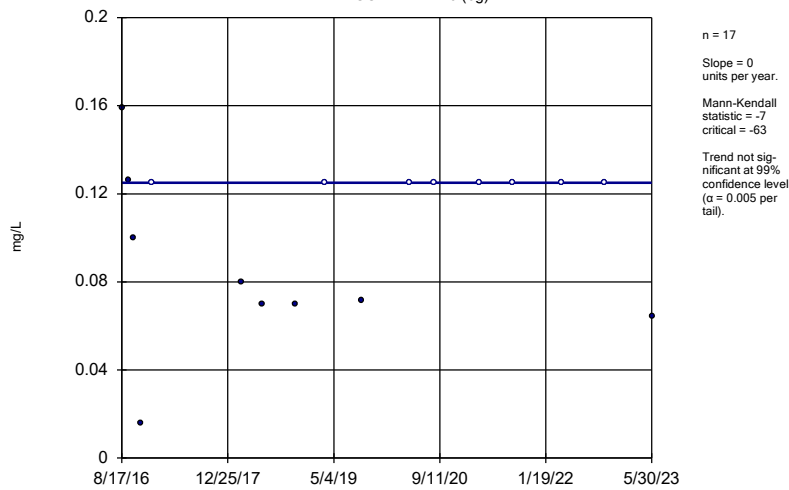
GC-AP-MW-24 (bg)



Constituent: Fluoride Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

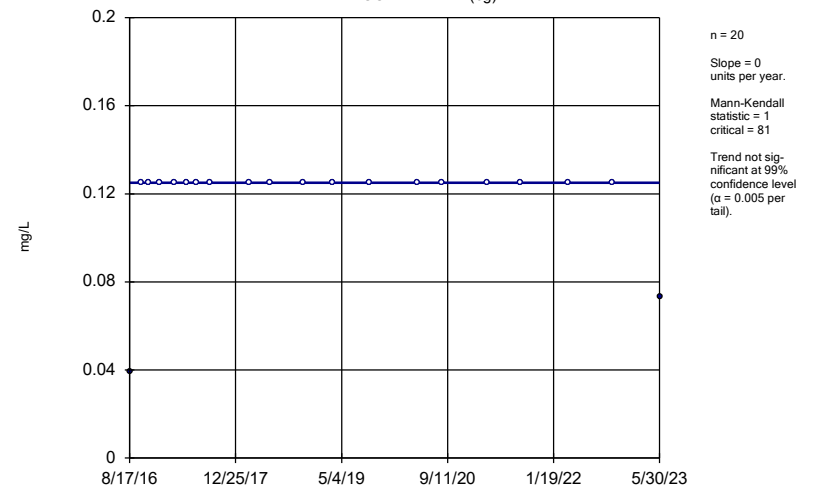
GC-AP-MW-26 (bg)



Constituent: Fluoride Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-27 (bg)

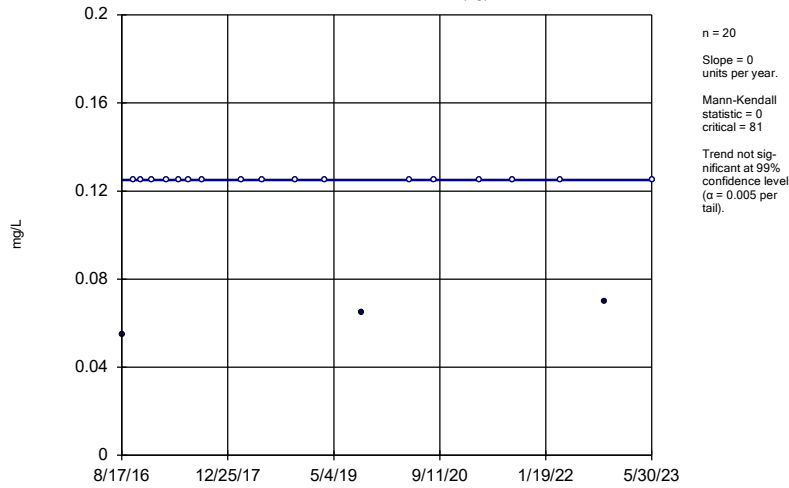


Constituent: Fluoride Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP



### Sen's Slope Estimator

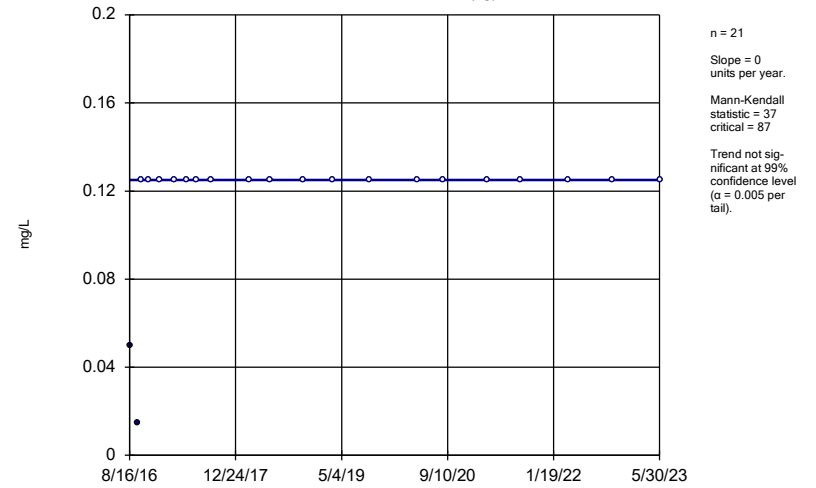
GC-AP-MW-28 (bg)



Constituent: Fluoride Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

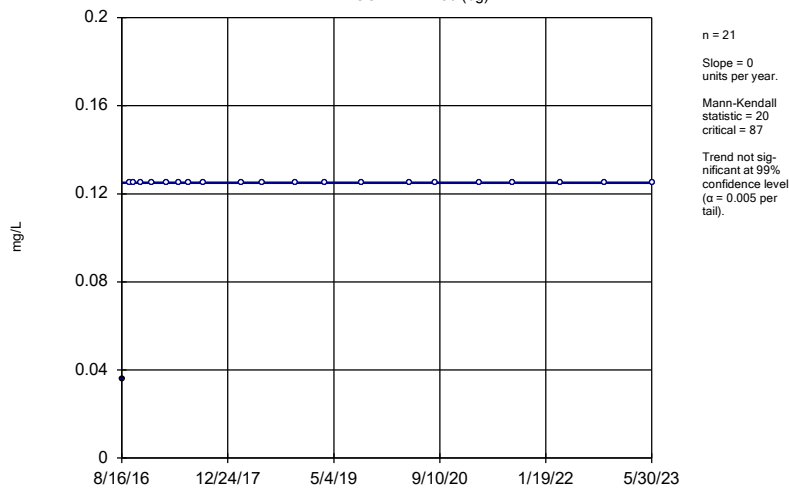
GC-AP-MW-29 (bg)



Constituent: Fluoride Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

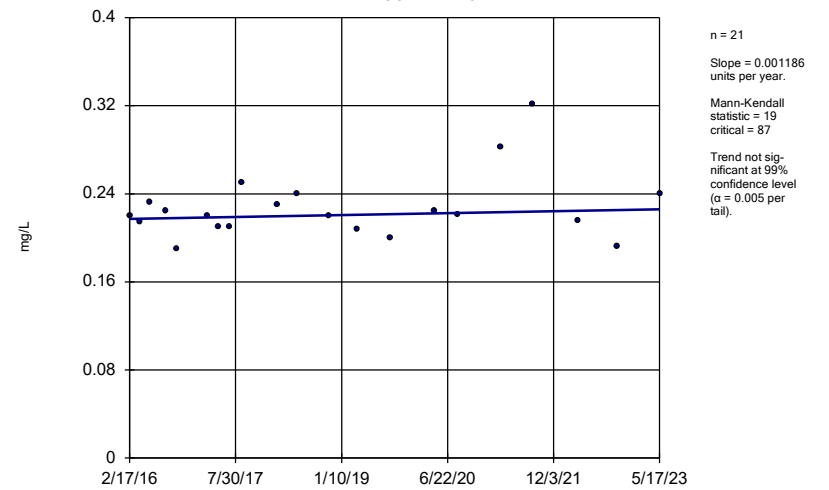
GC-AP-MW-30 (bg)



Constituent: Fluoride Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

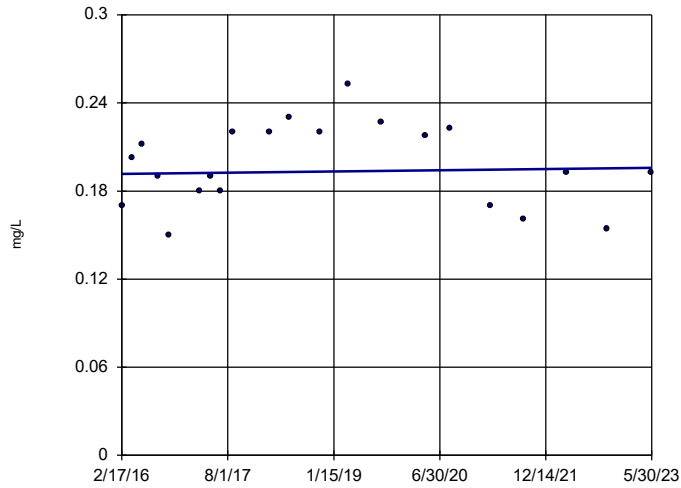
GC-AP-MW-5



Constituent: Fluoride Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-6

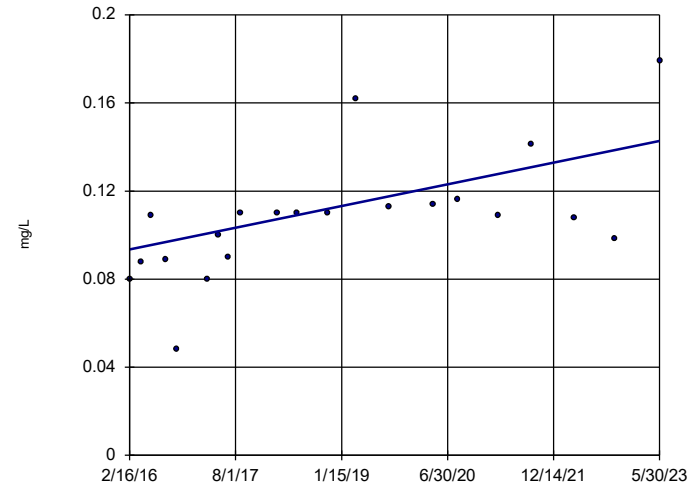


n = 21  
 Slope = 0.000574 units per year.  
 Mann-Kendall statistic = 13  
 critical = 87  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-8

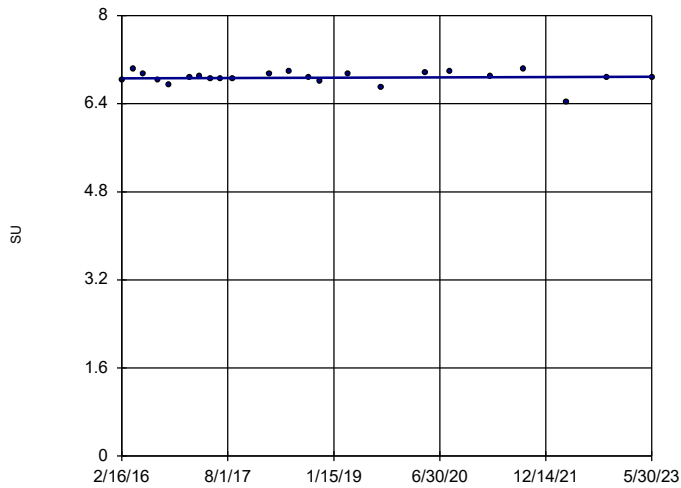


n = 21  
 Slope = 0.006765 units per year.  
 Mann-Kendall statistic = 108  
 critical = 87  
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-12

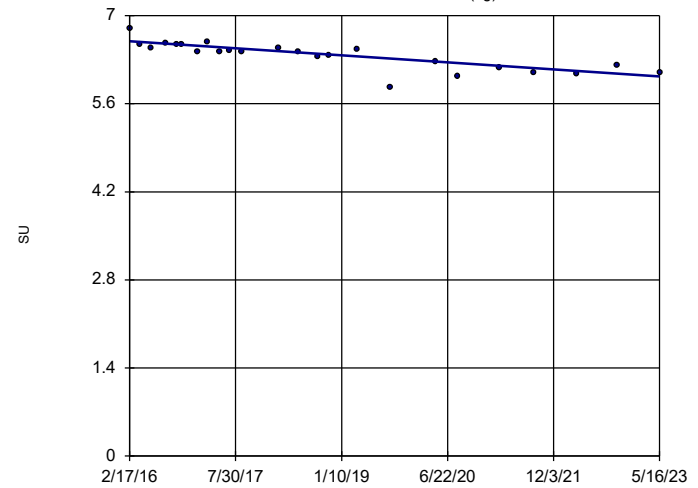


n = 23  
 Slope = 0.004117 units per year.  
 Mann-Kendall statistic = 23  
 critical = 98  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-23 (bg)

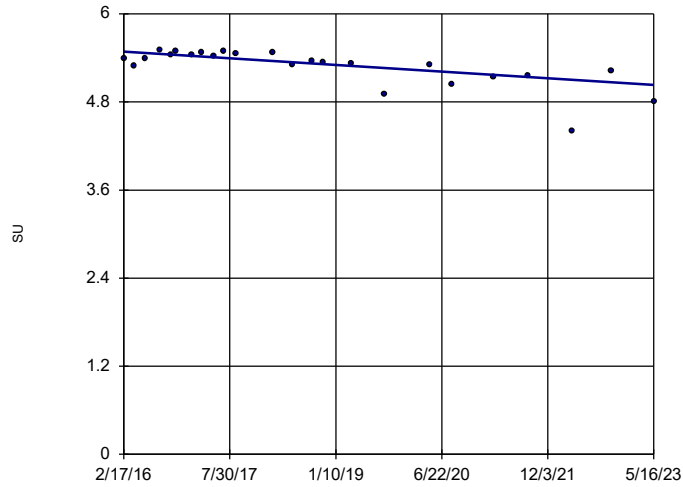


n = 24  
 Slope = -0.0772 units per year.  
 Mann-Kendall statistic = -181  
 critical = -105  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

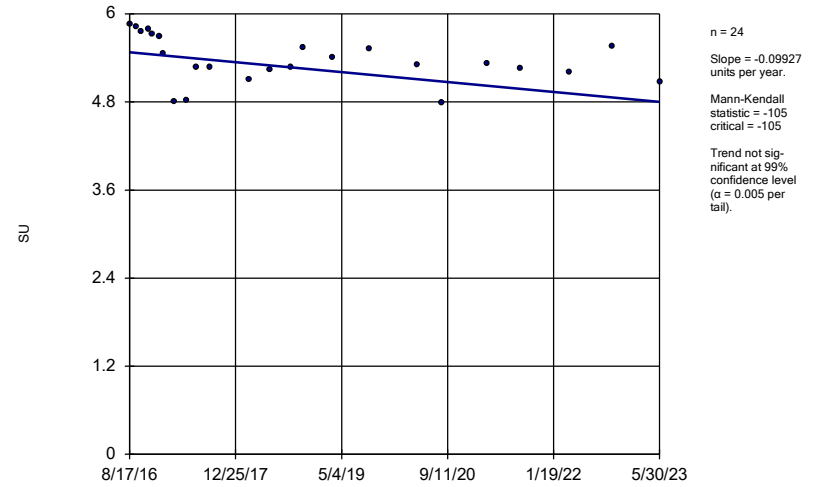
GC-AP-MW-24 (bg)



Constituent: pH Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

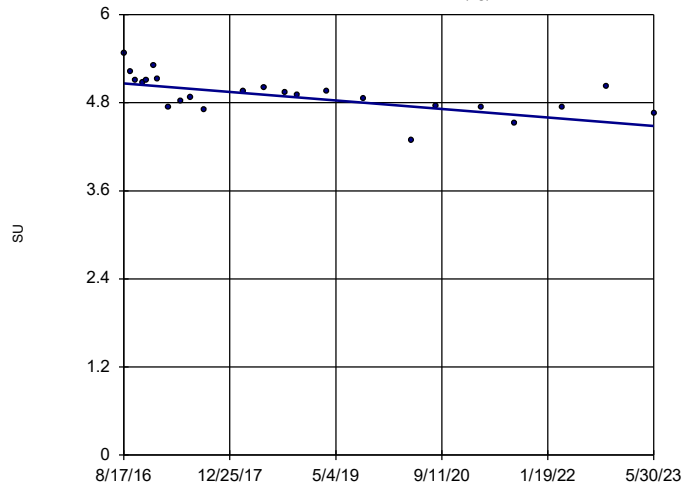
GC-AP-MW-26 (bg)



Constituent: pH Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

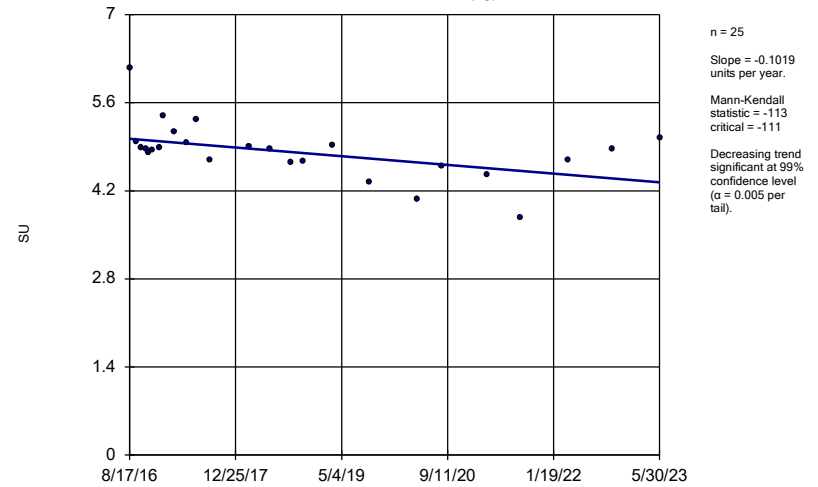
GC-AP-MW-27 (bg)



Constituent: pH Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

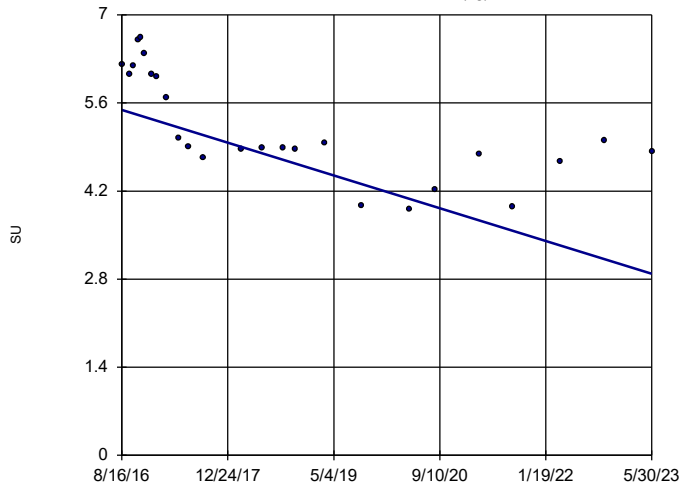
GC-AP-MW-28 (bg)



Constituent: pH Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-29 (bg)

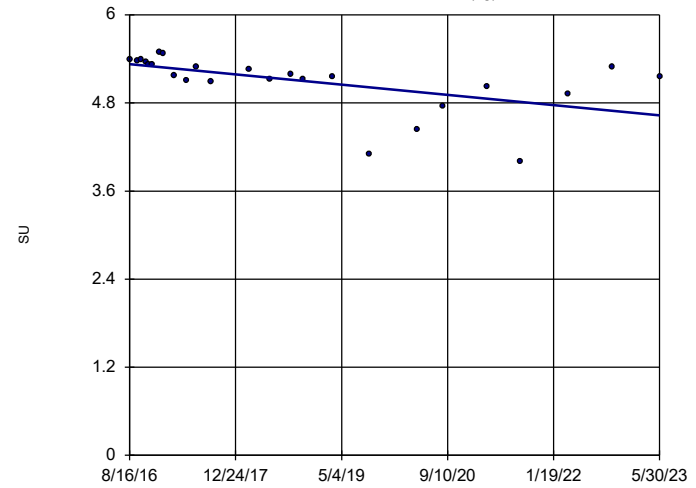


n = 25  
 Slope = -0.3835  
 units per year.  
 Mann-Kendall  
 statistic = -190  
 critical = -111  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-30 (bg)

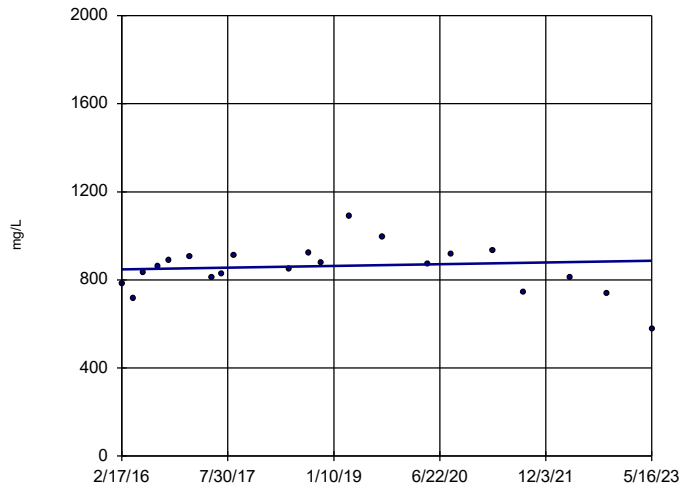


n = 25  
 Slope = -0.1028  
 units per year.  
 Mann-Kendall  
 statistic = -168  
 critical = -111  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: pH Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-1

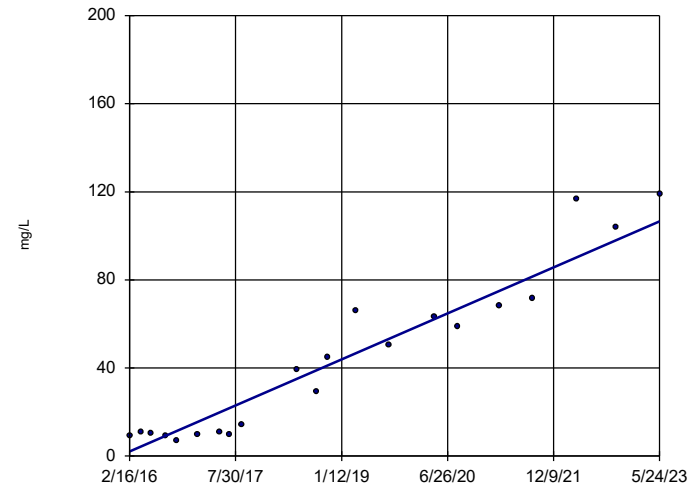


n = 21  
 Slope = 5.389  
 units per year.  
 Mann-Kendall  
 statistic = 14  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-10

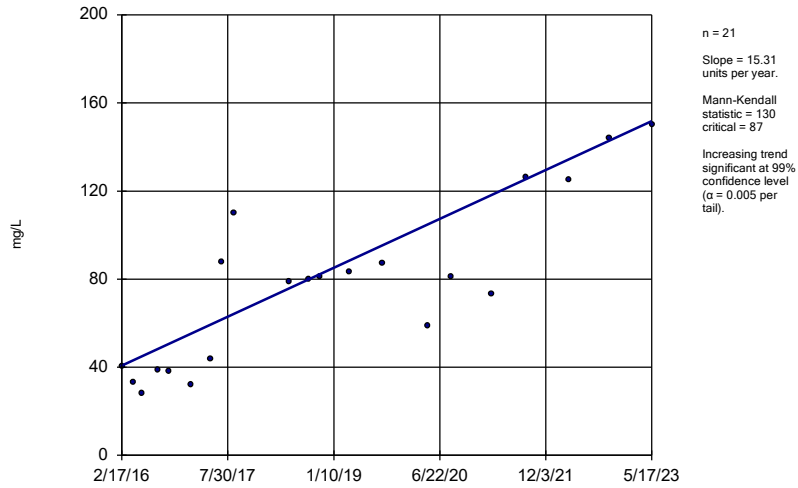


n = 21  
 Slope = 14.37  
 units per year.  
 Mann-Kendall  
 statistic = 174  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

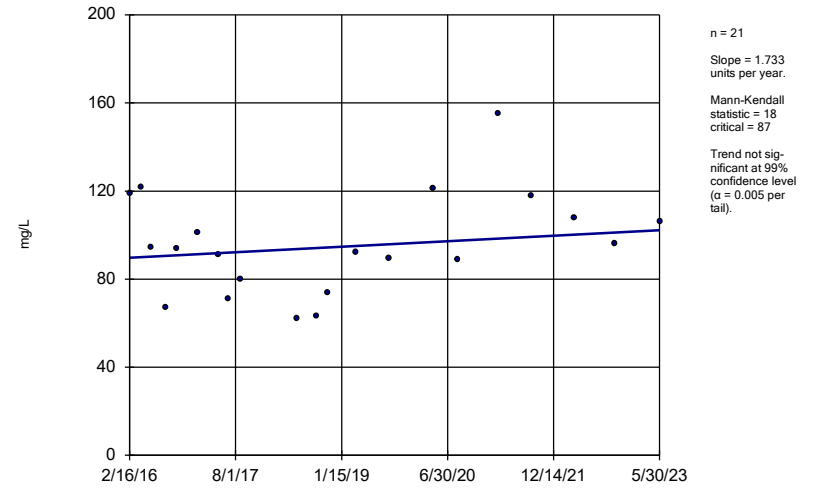
GC-AP-MW-11



Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

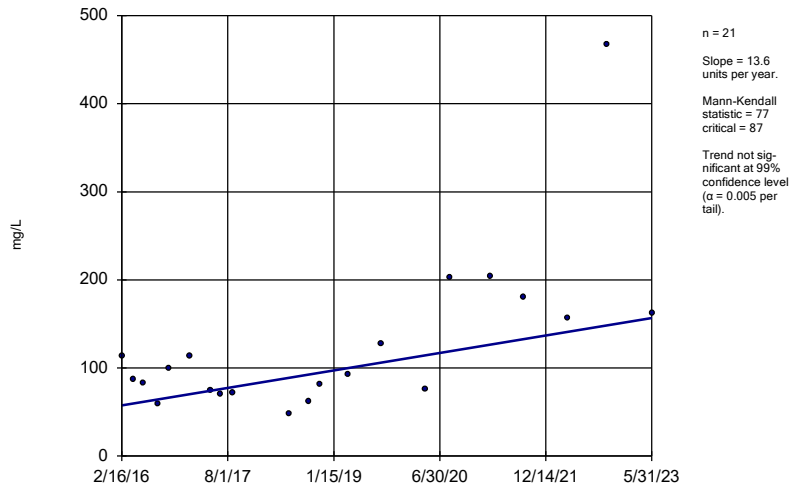
GC-AP-MW-12



Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

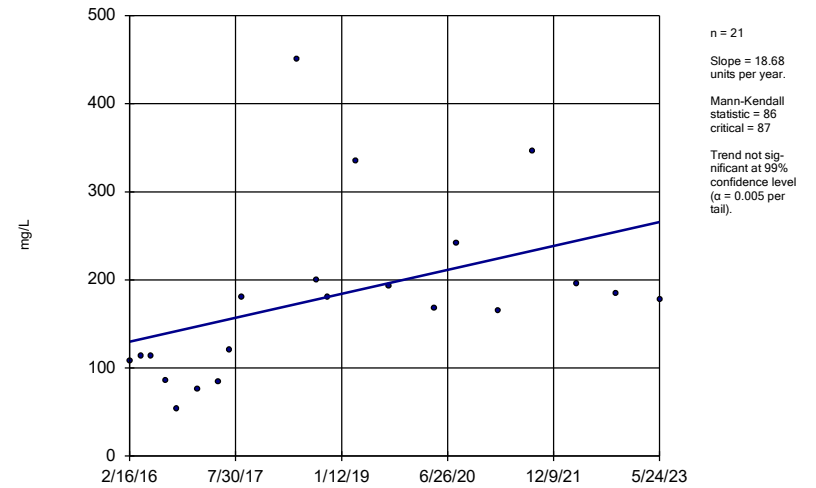
GC-AP-MW-13



Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

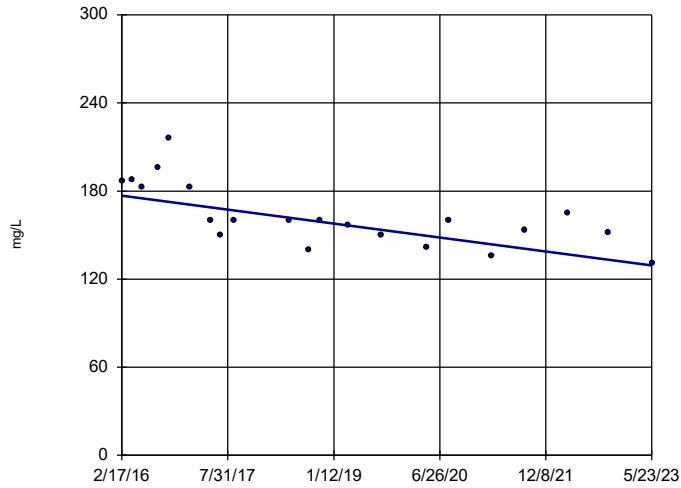
GC-AP-MW-14



Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-15

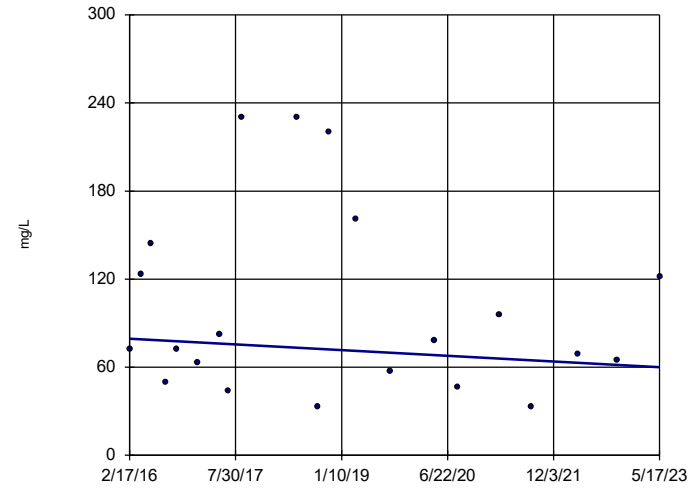


n = 21  
 Slope = -6.528  
 units per year.  
 Mann-Kendall  
 statistic = -112  
 critical = -87  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-17

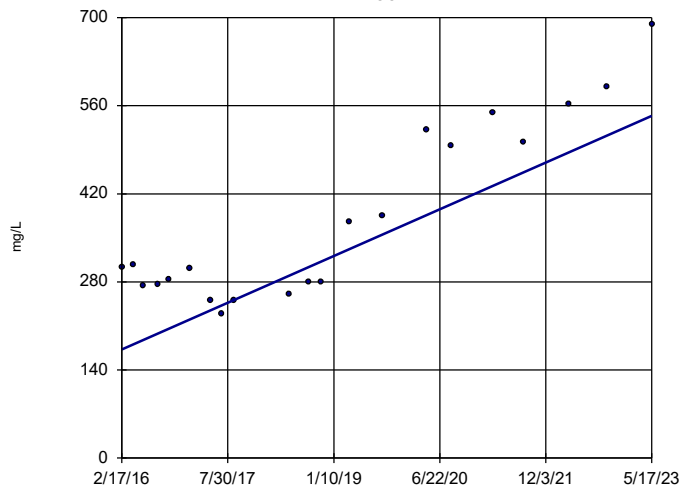


n = 21  
 Slope = -2.687  
 units per year.  
 Mann-Kendall  
 statistic = -21  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-2

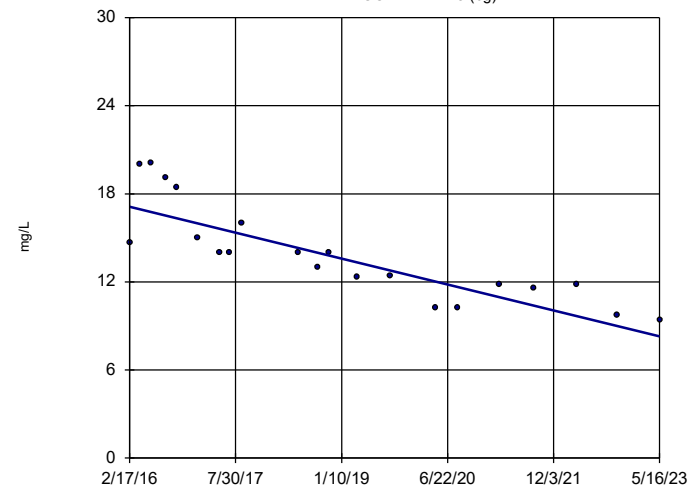


n = 21  
 Slope = 51.18  
 units per year.  
 Mann-Kendall  
 statistic = 120  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-23 (bg)

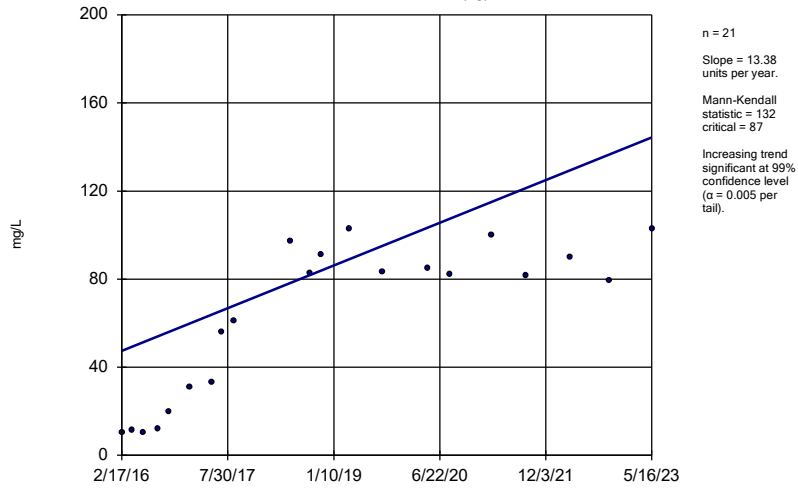


n = 21  
 Slope = -1.219  
 units per year.  
 Mann-Kendall  
 statistic = -164  
 critical = -87  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

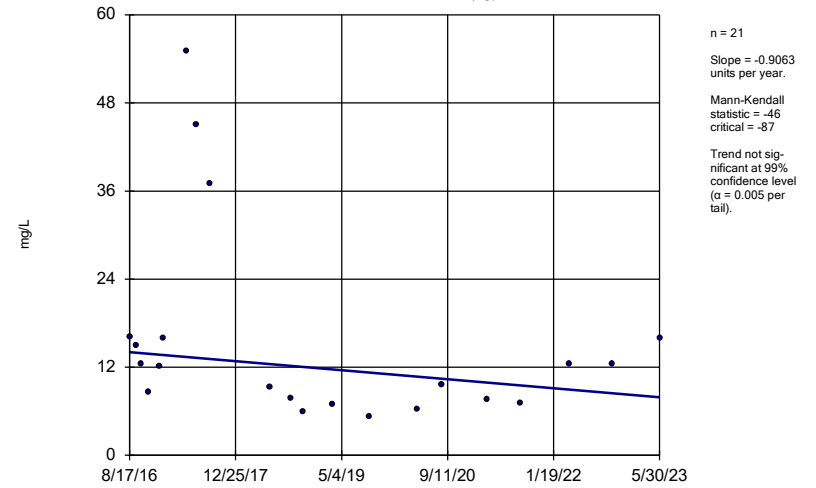
GC-AP-MW-24 (bg)



Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

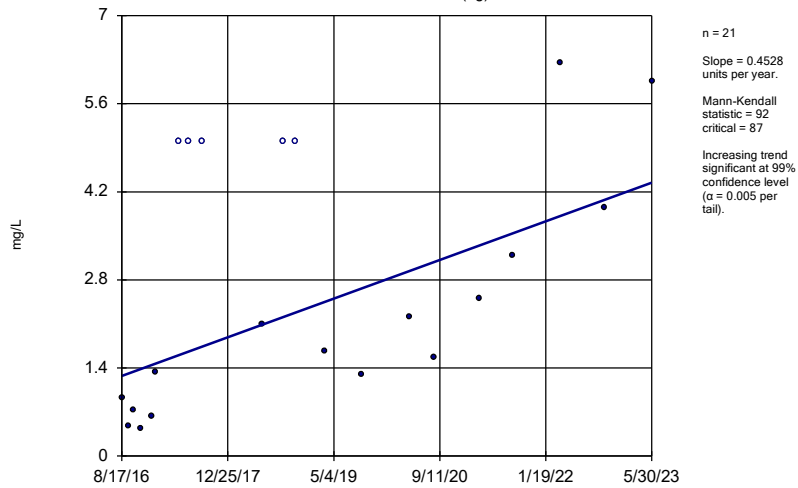
GC-AP-MW-26 (bg)



Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

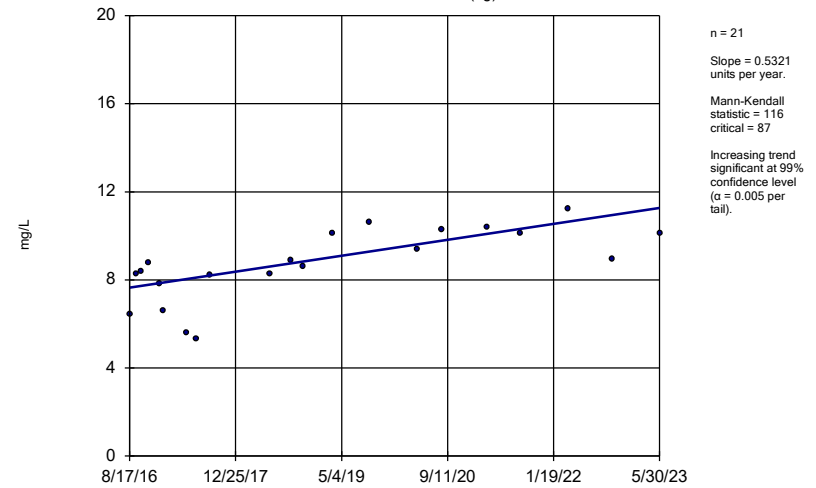
GC-AP-MW-27 (bg)



Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

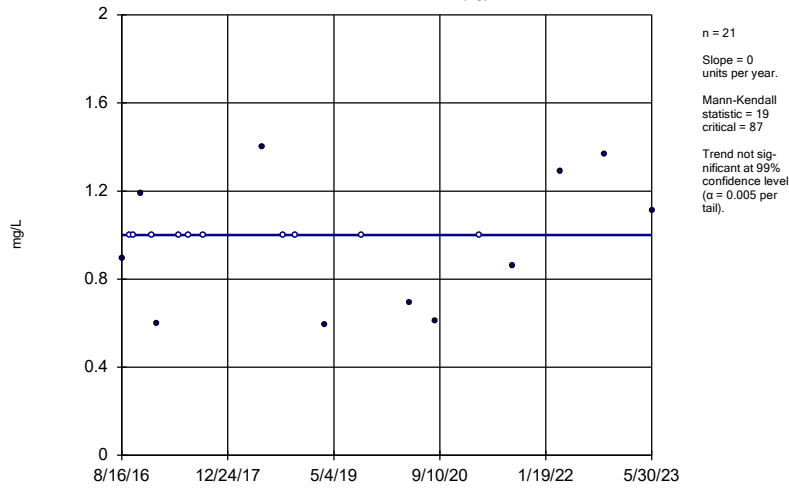
GC-AP-MW-28 (bg)



Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

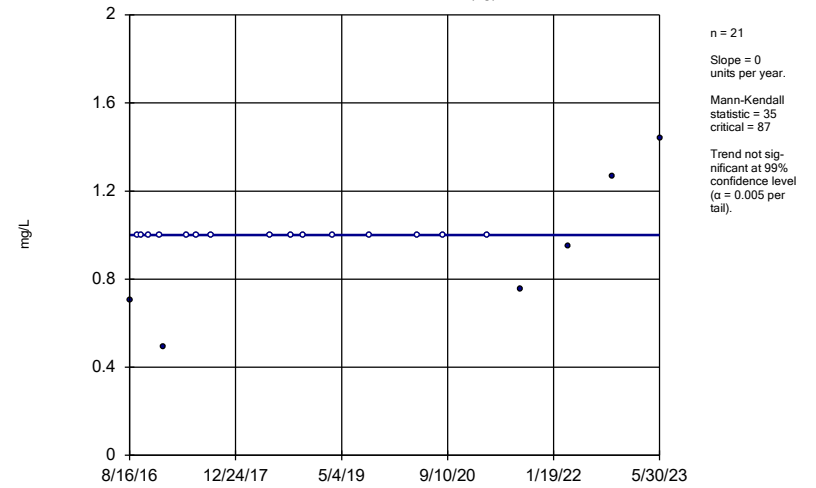
GC-AP-MW-29 (bg)



Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

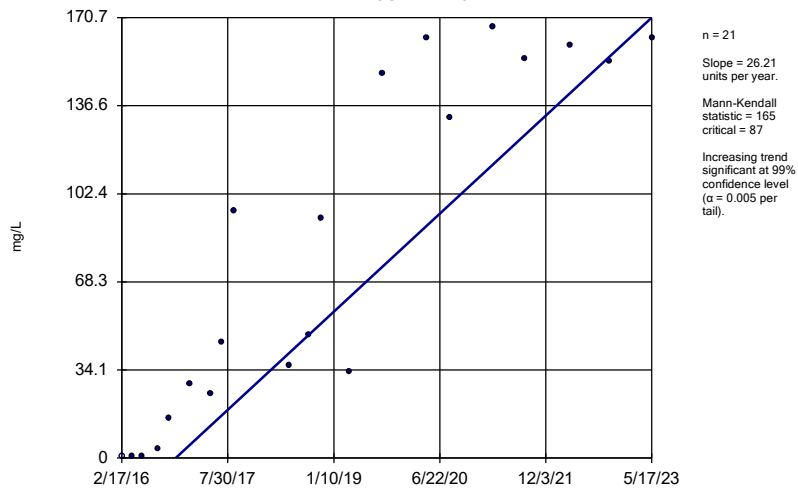
GC-AP-MW-30 (bg)



Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

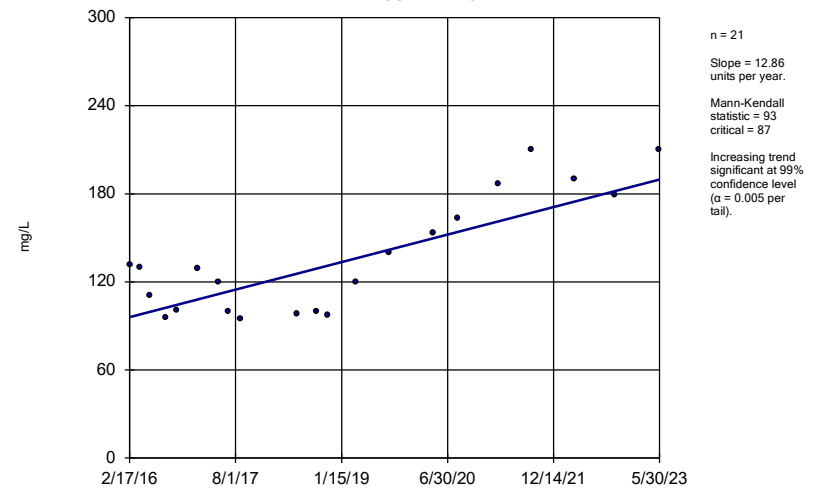
GC-AP-MW-5



Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-6

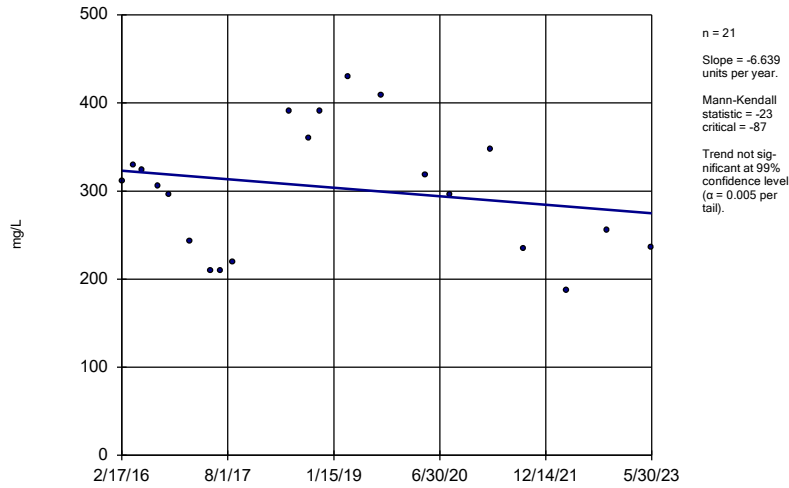


Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP



### Sen's Slope Estimator

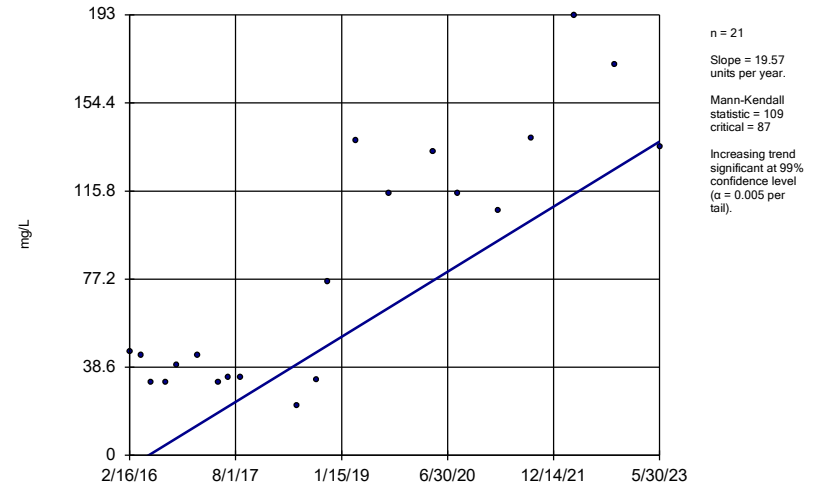
GC-AP-MW-7



Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

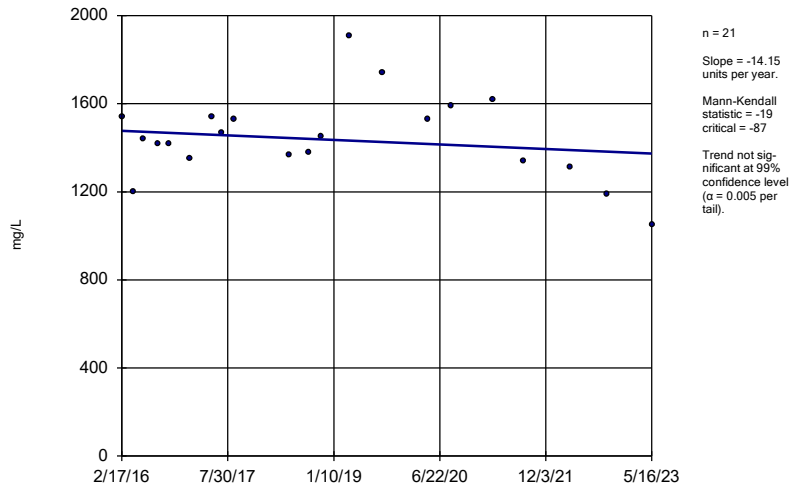
GC-AP-MW-9



Constituent: Sulfate Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

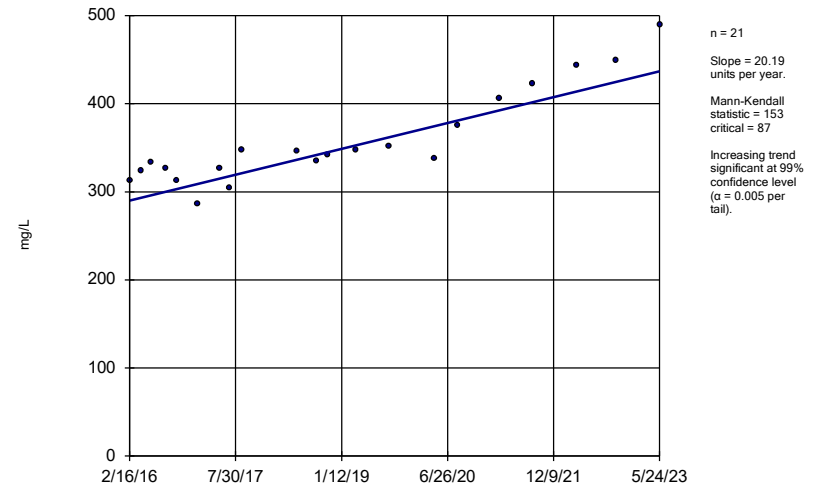
GC-AP-MW-1



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

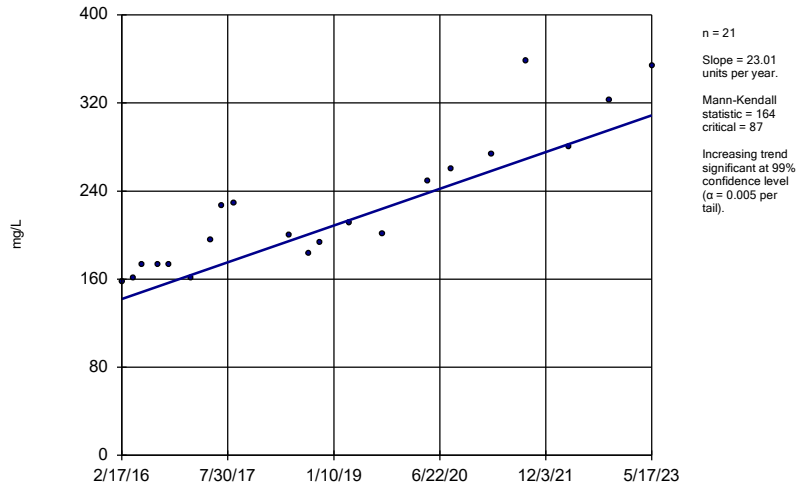
GC-AP-MW-10



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

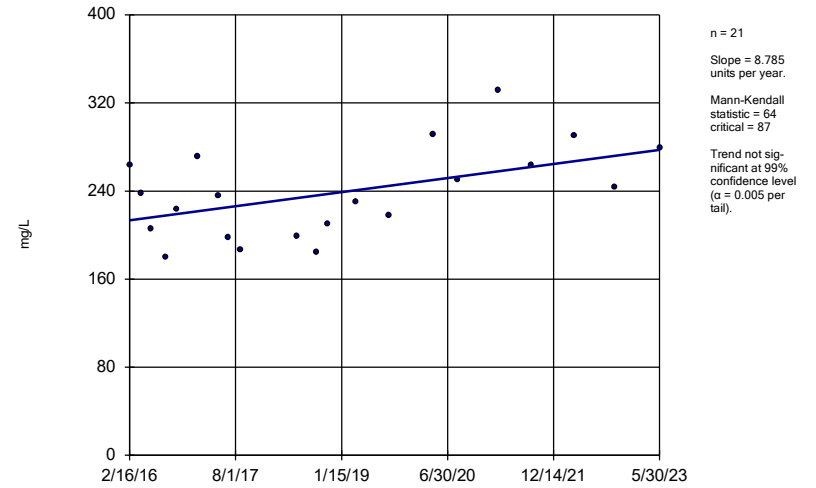
GC-AP-MW-11



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

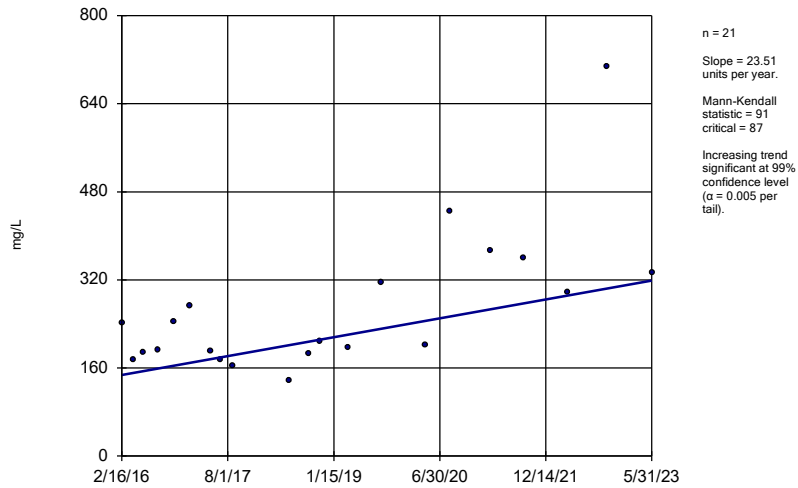
GC-AP-MW-12



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

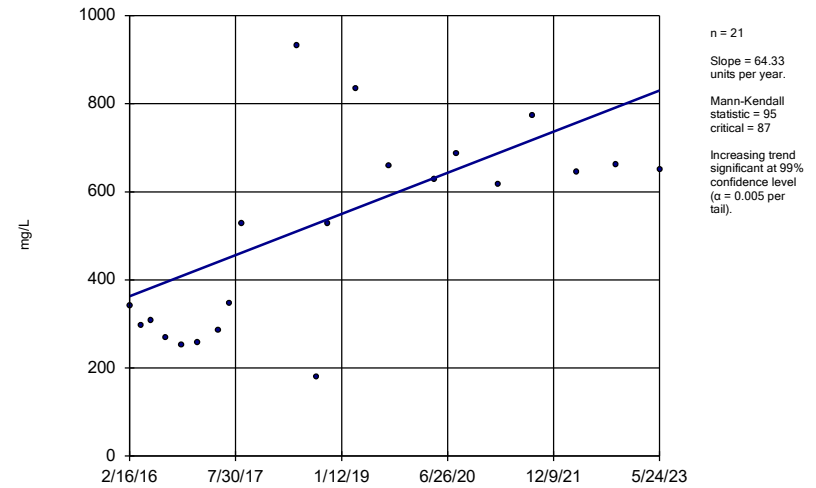
GC-AP-MW-13



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

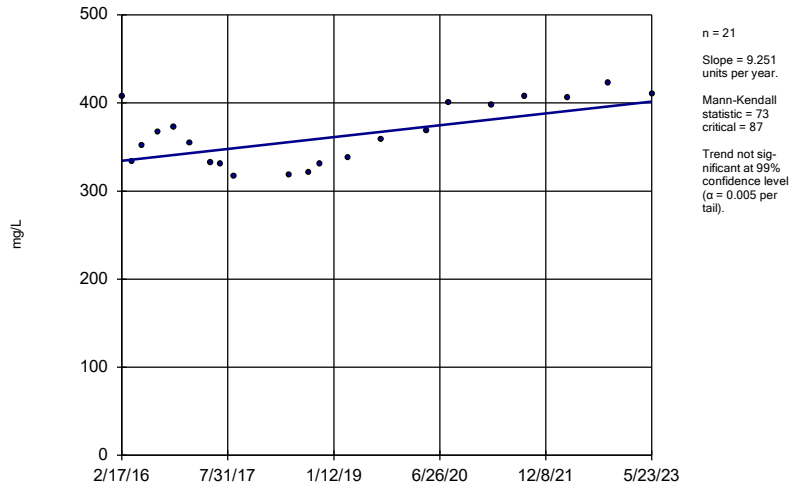
GC-AP-MW-14



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

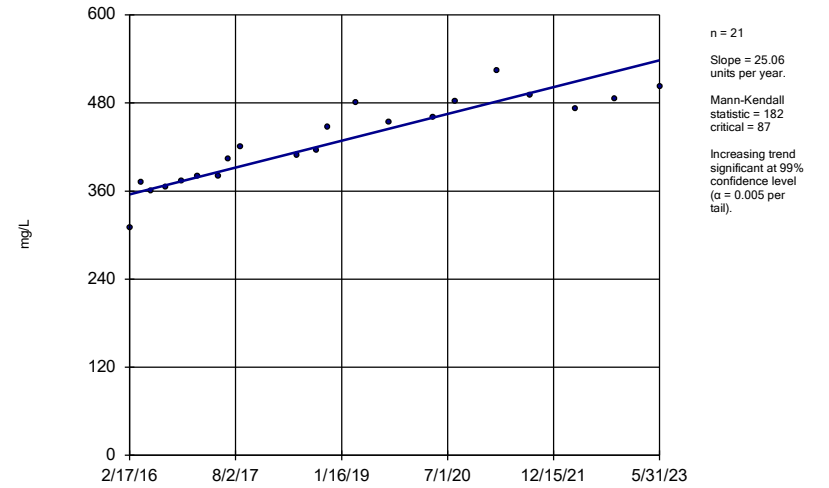
GC-AP-MW-15



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

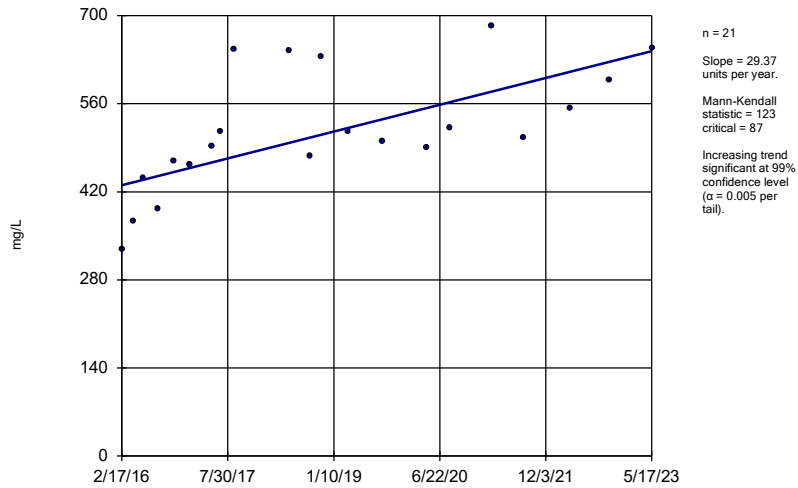
GC-AP-MW-16



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

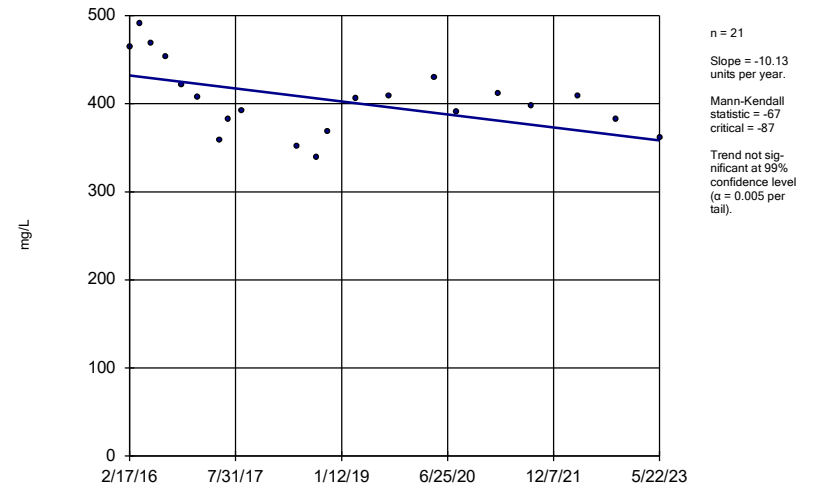
GC-AP-MW-17



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

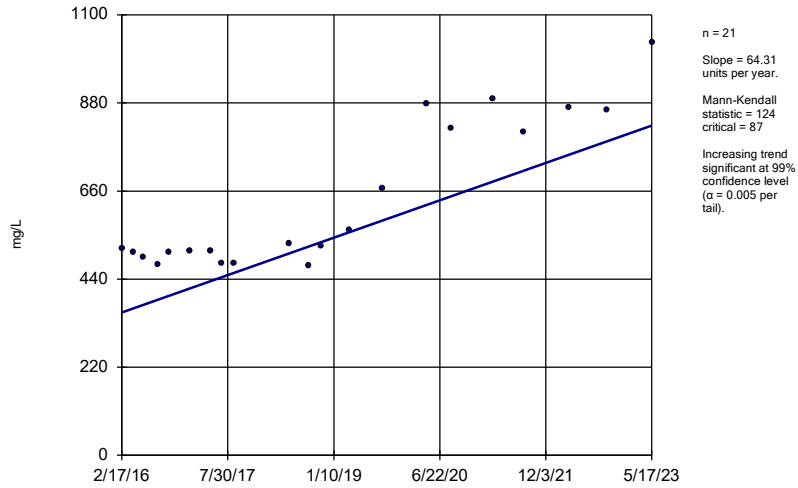
GC-AP-MW-18



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

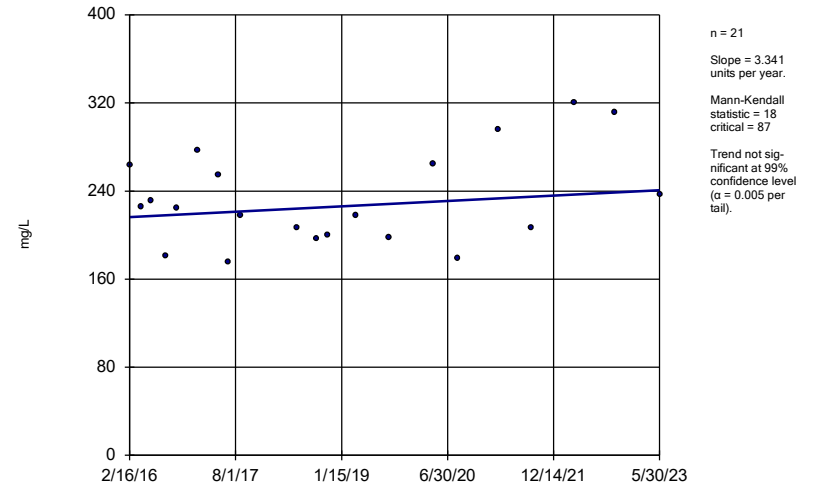
GC-AP-MW-2



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

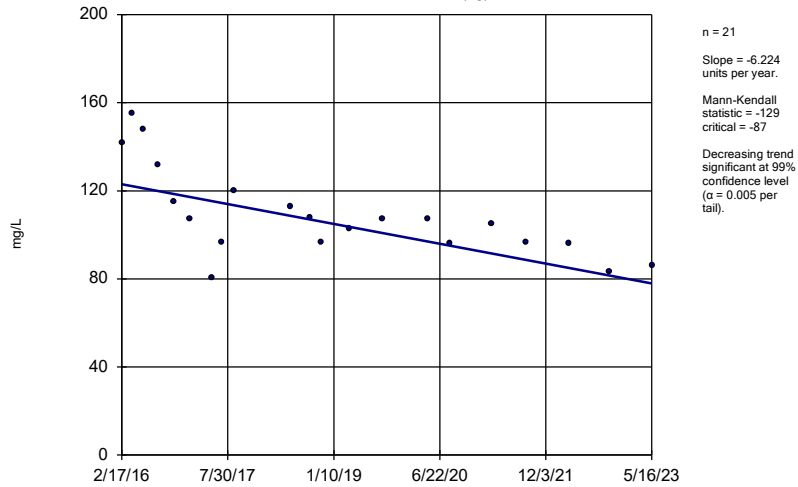
GC-AP-MW-21



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

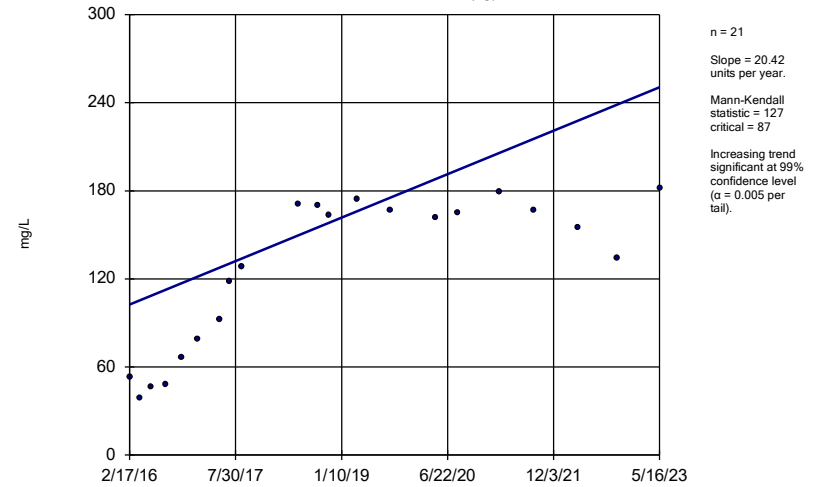
GC-AP-MW-23 (bg)



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

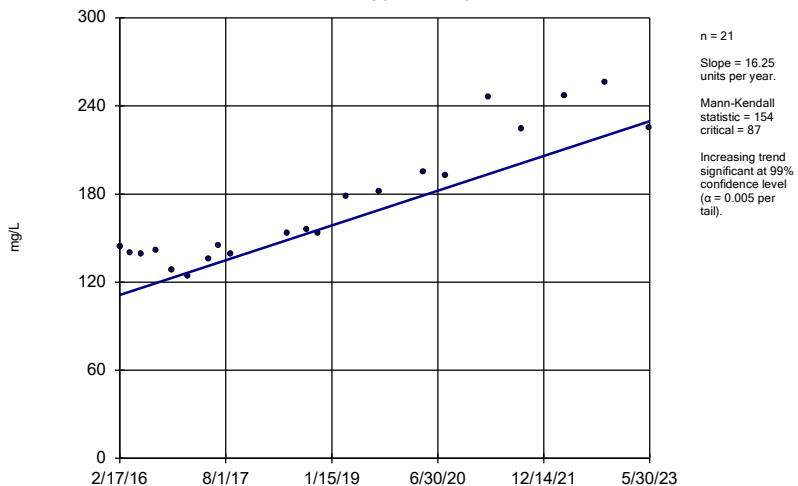
GC-AP-MW-24 (bg)



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

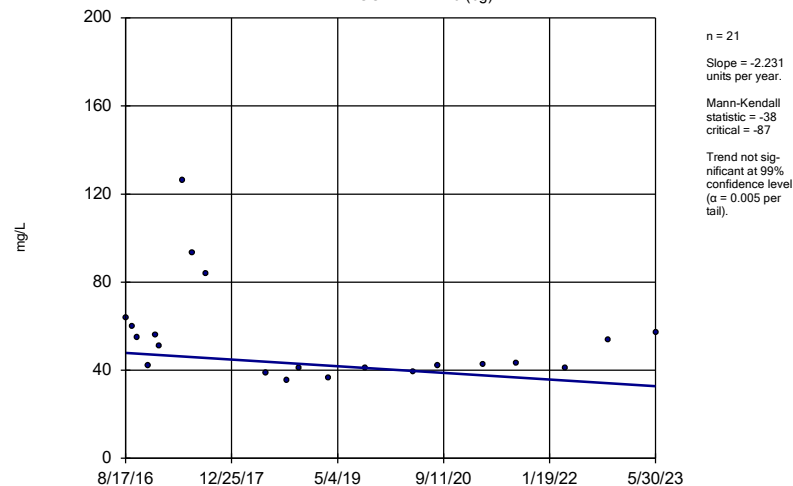
GC-AP-MW-25



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

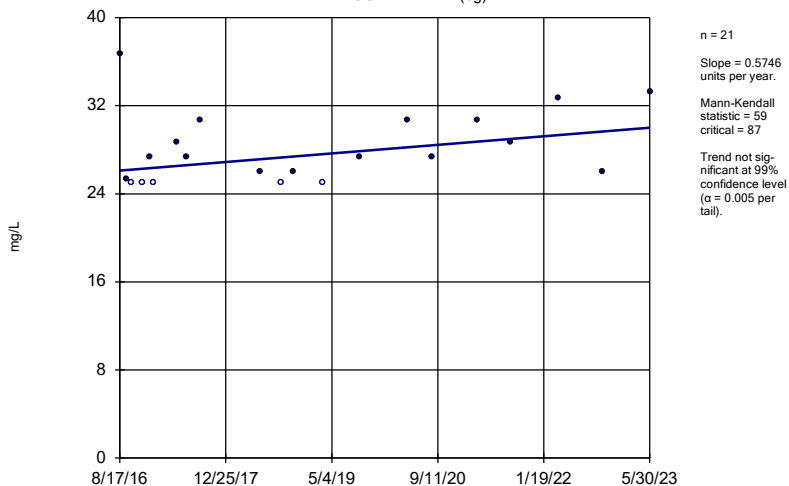
GC-AP-MW-26 (bg)



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

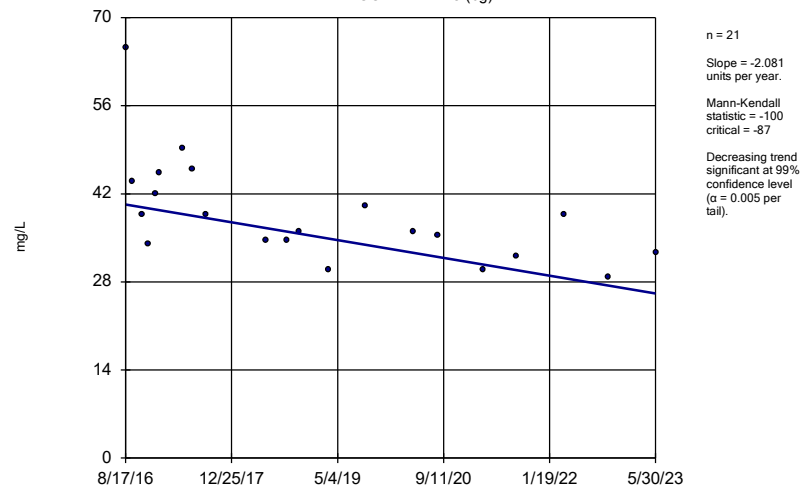
GC-AP-MW-27 (bg)



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

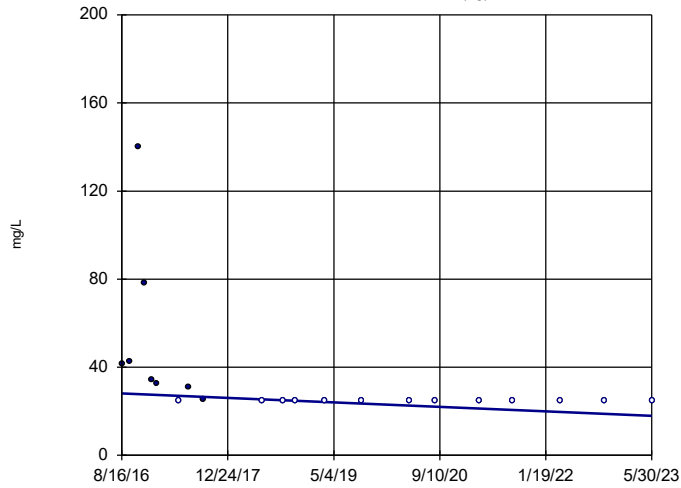
GC-AP-MW-28 (bg)



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-29 (bg)

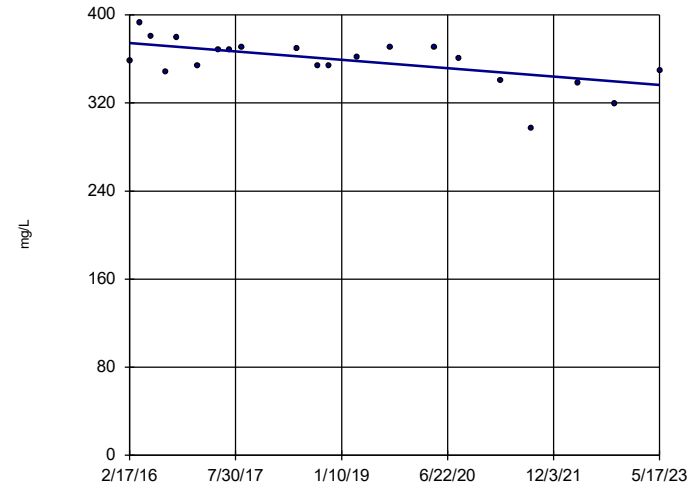


n = 21  
 Slope = -1.511  
 units per year.  
 Mann-Kendall  
 statistic = -118  
 critical = -87  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-3

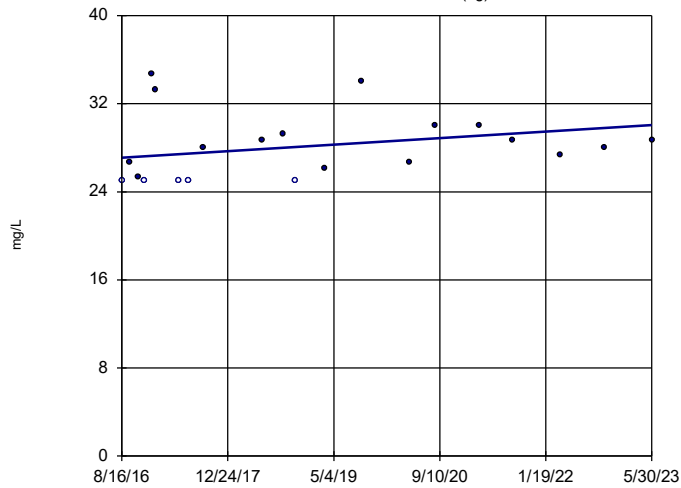


n = 21  
 Slope = -5.277  
 units per year.  
 Mann-Kendall  
 statistic = -85  
 critical = -87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-30 (bg)

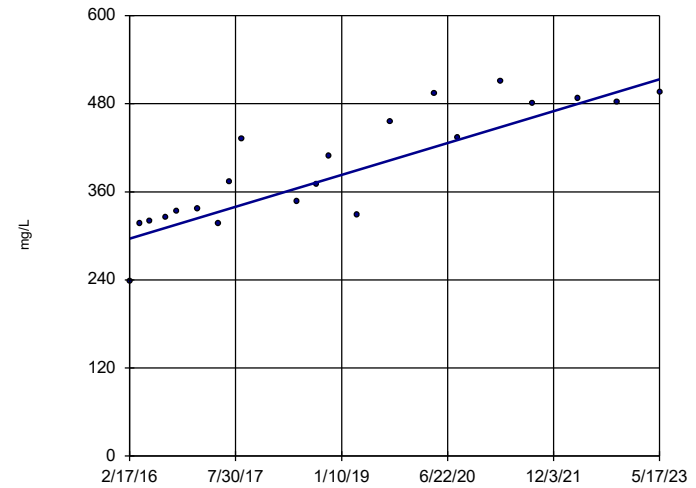


n = 21  
 Slope = 0.4363  
 units per year.  
 Mann-Kendall  
 statistic = 48  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-5

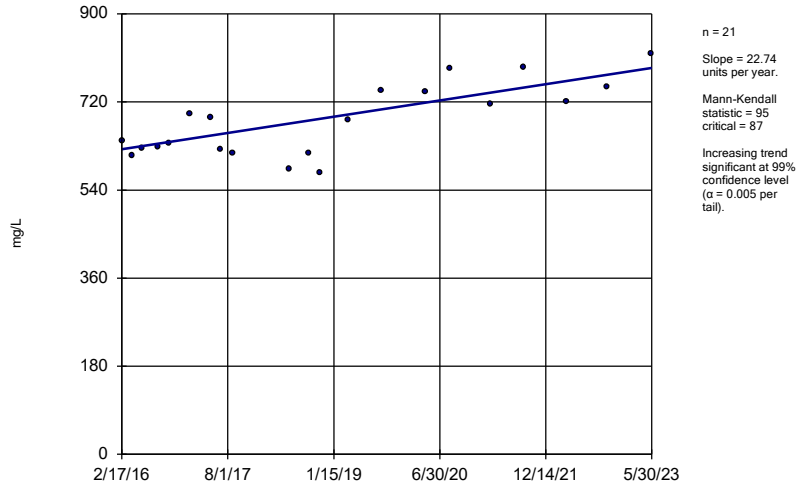


n = 21  
 Slope = 29.95  
 units per year.  
 Mann-Kendall  
 statistic = 158  
 critical = 87  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

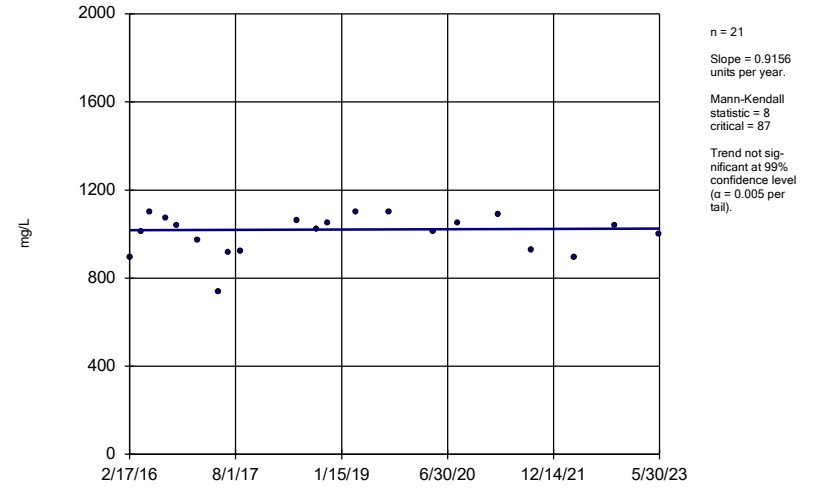
GC-AP-MW-6



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

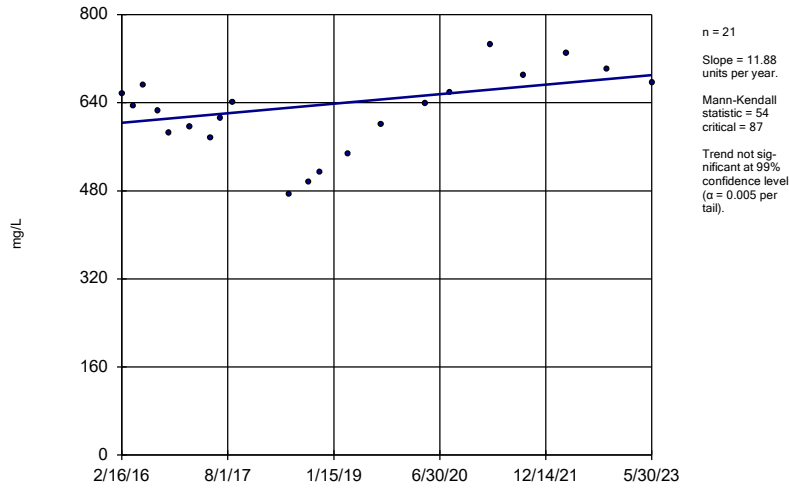
GC-AP-MW-7



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

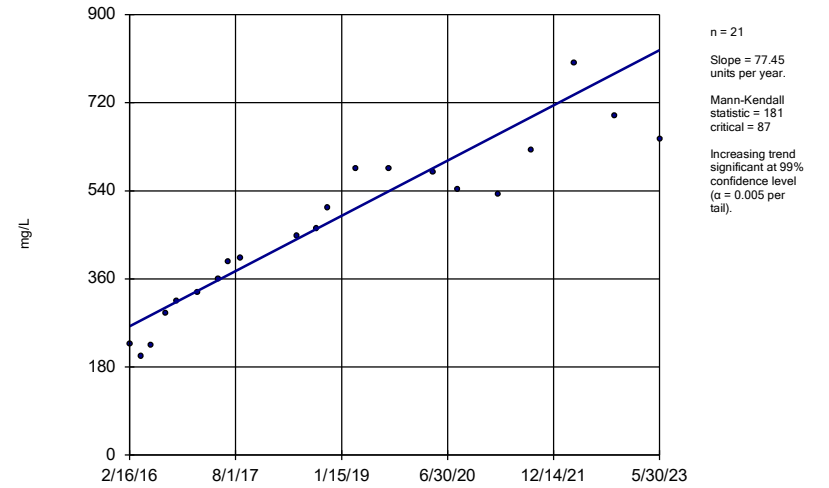
GC-AP-MW-8



Constituent: TDS Analysis Run 7/14/2023 2:27 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-9



Constituent: TDS Analysis Run 7/14/2023 2:28 PM View: Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

FIGURE F.



# Upper Tolerance Limits

Plant Greene County Client: Southern Company Data: Greene County AP Printed 12/9/2022, 11:08 AM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bq N</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.00137	133	n/a	92.48	n/a	n/a	0.00109	NP Inter(NDs)
Arsenic (mg/L)	0.0044	133	n/a	81.2	n/a	n/a	0.00109	NP Inter(NDs)
Barium (mg/L)	0.347	133	n/a	0	n/a	n/a	0.00109	NP Inter(normality)
Beryllium (mg/L)	0.00226	133	n/a	87.97	n/a	n/a	0.00109	NP Inter(NDs)
Cadmium (mg/L)	0.000912	133	n/a	72.18	n/a	n/a	0.00109	NP Inter(normality)
Chromium (mg/L)	0.01	133	n/a	78.95	n/a	n/a	0.00109	NP Inter(NDs)
Cobalt (mg/L)	0.0167	133	n/a	53.38	n/a	n/a	0.00109	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	3.88	133	n/a	3.008	n/a	n/a	0.00109	NP Inter(normality)
Fluoride (mg/L)	0.159	134	n/a	70.15	n/a	n/a	0.001035	NP Inter(normality)
Lead (mg/L)	0.0002	133	n/a	98.5	n/a	n/a	0.00109	NP Inter(NDs)
Lithium (mg/L)	0.02	133	n/a	100	n/a	n/a	0.00109	NP Inter(NDs)
Mercury (mg/L)	0.0005	133	n/a	100	n/a	n/a	0.00109	NP Inter(NDs)
Molybdenum (mg/L)	0.00308	133	n/a	96.99	n/a	n/a	0.00109	NP Inter(NDs)
Selenium (mg/L)	0.0072	133	n/a	87.97	n/a	n/a	0.00109	NP Inter(NDs)
Thallium (mg/L)	0.00039	133	n/a	98.5	n/a	n/a	0.00109	NP Inter(NDs)

FIGURE G.

<b>GREENE COUNTY ASH POND GWPS</b>			
<b>Analyte</b>	<b>Units</b>	<b>Background</b>	<b>GWPS</b>
Antimony	mg/L	0.00137	0.006
Arsenic	mg/L	0.0044	0.01
Barium	mg/L	0.347	2
Beryllium	mg/L	0.00226	0.004
Cadmium	mg/L	0.000912	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0167	0.0167
Combined Radium-226/228	pCi/L	3.88	5
Fluoride	mg/L	0.159	4
Lead	mg/L	0.0002	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.00308	0.1
Selenium	mg/L	0.0072	0.05
Thallium	mg/L	0.00039	0.002

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2019.

FIGURE H.

# Confidence Interval Summary Table - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 7/19/2023, 2:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GC-AP-MW-1	0.02506	0.01469	0.01	Yes 8	0.01988	0.004889	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.01288	0.01174	0.01	Yes 8	0.01231	0.0005357	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-14	0.0285	0.02028	0.01	Yes 8	0.02439	0.003875	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-16	0.1017	0.06624	0.01	Yes 8	0.08396	0.01672	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-17	1.02	0.5406	0.01	Yes 8	0.7801	0.2259	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.05042	0.04785	0.01	Yes 8	0.04914	0.001213	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-5	0.4472	0.3741	0.01	Yes 8	0.4106	0.03447	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-1	0.2796	0.1604	0.0167	Yes 8	0.22	0.05621	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-10	0.04115	0.01747	0.0167	Yes 8	0.02896	0.0131	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-14	0.04133	0.02982	0.0167	Yes 8	0.03558	0.005427	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.01948	0.0177	0.0167	Yes 8	0.01859	0.0008391	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-2	0.0348	0.01923	0.0167	Yes 8	0.02701	0.007346	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-9	0.03025	0.01723	0.0167	Yes 8	0.02374	0.006142	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-10	0.2674	0.1088	0.04	Yes 8	0.1881	0.07483	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-11	0.1332	0.07981	0.04	Yes 8	0.1065	0.02517	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-12	0.1484	0.08286	0.04	Yes 8	0.1156	0.03091	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.6224	0.2261	0.04	Yes 8	0.4243	0.187	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	0.8624	0.5346	0.04	Yes 8	0.6985	0.1547	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.6235	0.5505	0.04	Yes 8	0.587	0.03446	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.66	0.5835	0.04	Yes 8	0.6218	0.03613	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.7573	0.5457	0.04	Yes 8	0.6515	0.09978	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-18	0.3853	0.2992	0.04	Yes 8	0.3423	0.04063	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-21	0.146	0.0683	0.04	Yes 8	0.08874	0.02435	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-5	0.1387	0.09078	0.04	Yes 8	0.1147	0.02259	0	None	No	0.01	Param.

# Confidence Interval Summary Table - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 7/19/2023, 2:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GC-AP-MW-13	0.003338	0.001667	0.006	No	8	0.002503	0.0007887	0	None	No	0.01	Param.
Antimony (mg/L)	GC-AP-MW-7	0.001015	0.00066	0.006	No	8	0.0009375	0.0001455	75	None	No	0.004	NP (NDs)
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-1</b>	<b>0.02506</b>	<b>0.01469</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0.01988</b>	<b>0.004889</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>0.01288</b>	<b>0.01174</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0.01231</b>	<b>0.0005357</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	GC-AP-MW-11	0.005407	0.001963	0.01	No	8	0.003685	0.001624	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-12	0.0002871	0.0001929	0.01	No	8	0.0002431	0.00004762	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-13	0.005535	0.001658	0.01	No	8	0.003534	0.001978	0	None	sqrt(x)	0.01	Param.
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.0285</b>	<b>0.02028</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0.02439</b>	<b>0.003875</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	GC-AP-MW-15	0.000412	0.0002145	0.01	No	8	0.0003133	0.00009956	37.5	Kaplan-Meier	No	0.01	Param.
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>0.1017</b>	<b>0.06624</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0.08396</b>	<b>0.01672</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>1.02</b>	<b>0.5406</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0.7801</b>	<b>0.2259</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-18</b>	<b>0.05042</b>	<b>0.04785</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0.04914</b>	<b>0.001213</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	GC-AP-MW-2	0.01291	0.003156	0.01	No	8	0.007969	0.006488	0	None	ln(x)	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-21	0.0002059	0.0001073	0.01	No	8	0.0001944	0.00002626	50	Kaplan-Meier	x^5	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-25	0.0003382	0.000195	0.01	No	8	0.0002663	0.00008182	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-3	0.01203	0.008286	0.01	No	8	0.01016	0.001765	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-31	0.000203	0.000111	0.01	No	8	0.0001915	0.00003253	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-32	0.000203	0.000142	0.01	No	8	0.0001938	0.0000214	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-33	0.000242	0.000081	0.01	No	8	0.000186	0.00004914	62.5	None	No	0.004	NP (NDs)
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>0.4472</b>	<b>0.3741</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0.4106</b>	<b>0.03447</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	GC-AP-MW-6	0.0002568	0.000123	0.01	No	8	0.0002134	0.00005456	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-7	0.000203	0.00008	0.01	No	8	0.0001613	0.00005018	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	GC-AP-MW-8	0.0002671	0.0001461	0.01	No	8	0.0002265	0.00004361	37.5	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-9	0.0108	0.00316	0.01	No	8	0.008873	0.002739	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-1	0.02943	0.02019	2	No	8	0.02481	0.004359	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-10	0.2792	0.204	2	No	8	0.2416	0.0355	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-11	0.0949	0.05415	2	No	8	0.07453	0.01922	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-12	0.03631	0.02441	2	No	8	0.03036	0.005616	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-13	0.2054	0.04573	2	No	8	0.1256	0.07533	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-14	0.1236	0.08119	2	No	8	0.1024	0.02	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-15	0.0406	0.03388	2	No	8	0.03724	0.003168	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-16	0.1119	0.0857	2	No	8	0.09879	0.01235	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-17	0.3277	0.2561	2	No	8	0.2919	0.03376	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-18	0.09315	0.07038	2	No	8	0.08176	0.01074	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-2	0.03625	0.03077	2	No	8	0.03351	0.002586	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-21	0.1036	0.05444	2	No	8	0.07901	0.02319	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-25	0.1082	0.07307	2	No	8	0.09063	0.01656	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-3	0.1577	0.1183	2	No	8	0.138	0.01863	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-31	0.03375	0.0267	2	No	8	0.03023	0.003327	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-32	0.0764	0.0127	2	No	8	0.0285	0.02742	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-33	0.1015	0.0282	2	No	8	0.06485	0.03458	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-5	0.323	0.131	2	No	8	0.1598	0.06606	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-6	0.07734	0.06266	2	No	8	0.07	0.006929	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-7	0.08717	0.0716	2	No	8	0.07939	0.007343	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-8	0.137	0.104	2	No	8	0.1205	0.01558	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-9	0.1858	0.1417	2	No	8	0.1638	0.0208	0	None	No	0.01	Param.
Cadmium (mg/L)	GC-AP-MW-1	0.000203	0.000089	0.005	No	8	0.0001749	0.00005208	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-11	0.000347	0.000203	0.005	No	8	0.000221	0.00005091	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-13	0.000203	0.00008	0.005	No	8	0.0001804	0.00004535	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-15	0.00046	0.00012	0.005	No	8	0.0002068	0.000108	37.5	None	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-16	0.000203	0.000069	0.005	No	8	0.0001863	0.00004738	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-2	0.000203	0.000077	0.005	No	8	0.0001678	0.00005093	62.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-21	0.000203	0.00007	0.005	No	8	0.000149	0.00006146	50	None	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-25	0.000203	0.00007	0.005	No	8	0.0001444	0.00006321	50	None	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-6	0.00278	0.000081	0.005	No	8	0.0005441	0.0009113	50	None	No	0.004	NP (normality)

# Confidence Interval Summary Table - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 7/19/2023, 2:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	GC-AP-MW-8	0.000241	0.000203	0.005	No	8	0.0002078	0.00001344	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-1	0.001015	0.000287	0.1	No	8	0.0005986	0.0003478	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-10	0.001015	0.000217	0.1	No	8	0.0006665	0.0003752	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-11	0.001015	0.00023	0.1	No	8	0.0006424	0.0003988	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-12	0.001015	0.000224	0.1	No	8	0.0006745	0.0003682	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-13	0.001015	0.000232	0.1	No	8	0.0005481	0.0003876	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-14	0.001015	0.00023	0.1	No	8	0.0006503	0.0003917	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-15	0.001015	0.00027	0.1	No	8	0.0008326	0.0003378	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-16	0.001015	0.000267	0.1	No	8	0.0006029	0.0003452	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-17	0.001015	0.000211	0.1	No	8	0.0005265	0.0004055	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-18	0.001015	0.00023	0.1	No	8	0.0005648	0.0003742	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-2	0.001056	0.0001374	0.1	No	8	0.000872	0.0008058	37.5	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	GC-AP-MW-21	0.001015	0.00022	0.1	No	8	0.000545	0.0003906	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-25	0.001015	0.000249	0.1	No	8	0.0006624	0.0003798	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-3	0.001015	0.000286	0.1	No	8	0.0005861	0.0003565	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-31	0.001015	0.000268	0.1	No	8	0.0006105	0.000341	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-32	0.001015	0.000301	0.1	No	8	0.0006165	0.0003324	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-33	0.000607	0.0003576	0.1	No	8	0.0006815	0.0002938	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	GC-AP-MW-5	0.001015	0.00025	0.1	No	8	0.0006516	0.0003895	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-6	0.001015	0.000228	0.1	No	8	0.0006411	0.0004013	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-7	0.001015	0.00024	0.1	No	8	0.0005721	0.0003687	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-8	0.001015	0.000217	0.1	No	8	0.0005526	0.000385	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-9	0.001015	0.000238	0.1	No	8	0.0005753	0.0003671	37.5	None	No	0.004	NP (normality)
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-1</b>	<b>0.2796</b>	<b>0.1604</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0.22</b>	<b>0.05621</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>0.04115</b>	<b>0.01747</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0.02896</b>	<b>0.0131</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	GC-AP-MW-11	0.03939	0.01636	0.0167	No	8	0.02788	0.01086	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-12	0.0009955	0.0002332	0.0167	No	8	0.0006144	0.0003844	37.5	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-13	0.002026	0.0005362	0.0167	No	8	0.001246	0.001668	37.5	Kaplan-Meier	ln(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.04133</b>	<b>0.02982</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0.03558</b>	<b>0.005427</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>0.01948</b>	<b>0.0177</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0.01859</b>	<b>0.0008391</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	GC-AP-MW-16	0.01596	0.01402	0.0167	No	8	0.01499	0.0009156	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-17	0.01463	0.009194	0.0167	No	8	0.01191	0.002563	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-18	0.01927	0.01618	0.0167	No	8	0.01773	0.001456	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-2</b>	<b>0.0348</b>	<b>0.01923</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0.02701</b>	<b>0.007346</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	GC-AP-MW-21	0.003612	0.0001748	0.0167	No	8	0.001894	0.001734	37.5	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-25	0.01428	0.01018	0.0167	No	8	0.01223	0.001937	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-3	0.002799	0.0001522	0.0167	No	8	0.001391	0.001657	12.5	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-31	0.0006655	-0.0002792	0.0167	No	8	0.0004748	0.0002284	37.5	Kaplan-Meier	x^4	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-32	0.00105	0.000203	0.0167	No	8	0.000397	0.0003612	75	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-33	0.00117	0.000203	0.0167	No	8	0.0005105	0.0004304	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-5	0.009143	0.00596	0.0167	No	8	0.007551	0.001502	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-6	0.003642	0.001978	0.0167	No	8	0.00281	0.0007849	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-7	0.003891	0.001709	0.0167	No	8	0.0028	0.001029	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-8	0.01061	0.005464	0.0167	No	8	0.008038	0.002428	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>0.03025</b>	<b>0.01723</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0.02374</b>	<b>0.006142</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-1	1.473	0.8448	5	No	8	1.159	0.2965	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-10	2.08	1.04	5	No	8	1.323	0.3667	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-11	0.7492	0.36	5	No	8	0.5546	0.1836	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-12	1.137	0.01247	5	No	8	0.5747	0.5304	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-13	0.5612	0.344	5	No	8	0.4496	0.1286	0	None	x^5	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-14	1.554	0.7924	5	No	8	1.173	0.3592	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-15	0.983	0.273	5	No	8	0.5389	0.2666	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-16	1.571	0.417	5	No	8	0.9939	0.5443	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-17	2.274	1.284	5	No	8	1.776	0.5631	0	None	x^4	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-18	1.609	0.8514	5	No	8	1.224	0.3837	0	None	sqrt(x)	0.01	Param.

# Confidence Interval Summary Table - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 7/19/2023, 2:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-2	1.738	0.4609	5	No	8	1.099	0.6024	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-21	0.8379	0.06616	5	No	8	0.4521	0.3641	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-25	1.162	0.2423	5	No	8	0.7021	0.4339	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-3	1.1	0.5795	5	No	8	0.84	0.2457	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-31	0.7949	0.2132	5	No	8	0.504	0.2744	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-32	3.18	-0.464	5	No	8	0.8926	1.045	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-33	3.41	0.771	5	No	8	1.504	0.9115	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-5	2.057	1.081	5	No	8	1.569	0.4602	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-6	1.119	0.5626	5	No	8	0.841	0.2627	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-7	1.023	0.5145	5	No	8	0.7638	0.2496	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-8	1.489	0.6084	5	No	8	1.049	0.4154	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-9	1.887	1.123	5	No	8	1.505	0.3608	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-1	0.1601	0.1134	4	No	8	0.1368	0.02205	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-10	0.3051	0.2158	4	No	8	0.2604	0.04212	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-11	0.1824	0.08524	4	No	8	0.1338	0.04581	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-12	0.2365	0.142	4	No	8	0.1893	0.04461	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-13	0.116	0.08306	4	No	8	0.09026	0.02237	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-14	0.269	0.2155	4	No	8	0.2423	0.02522	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-15	0.155	0.1177	4	No	8	0.1364	0.0176	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-16	0.2928	0.2501	4	No	8	0.2714	0.02011	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-17	0.5954	0.4905	4	No	8	0.5429	0.04946	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-18	0.2069	0.154	4	No	8	0.1804	0.02494	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-2	0.1603	0.08159	4	No	8	0.1209	0.03713	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-21	0.1821	0.08622	4	No	8	0.1342	0.04523	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-25	0.1006	0.07702	4	No	8	0.1024	0.02096	37.5	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-3	0.1926	0.1094	4	No	8	0.151	0.03921	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-31	0.125	0.0671	4	No	8	0.1178	0.02047	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-32	0.125	0.0518	4	No	8	0.1159	0.02588	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-5	0.2837	0.1905	4	No	8	0.2371	0.04395	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-6	0.2228	0.162	4	No	8	0.1924	0.02867	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-7	0.1099	0.0798	4	No	8	0.09486	0.01421	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-8	0.179	0.0981	4	No	8	0.1223	0.02599	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-9	0.1842	0.115	4	No	8	0.1491	0.03945	12.5	None	x^2	0.01	Param.
Lead (mg/L)	GC-AP-MW-16	0.000203	0.000089	0.015	No	8	0.000144	0.00005178	37.5	None	No	0.004	NP (normality)
Lead (mg/L)	GC-AP-MW-2	0.0006535	0.0002245	0.015	No	8	0.000439	0.0002164	37.5	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	GC-AP-MW-25	0.000203	0.0000884	0.015	No	8	0.0001887	0.00004052	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-31	0.000203	0.00015	0.015	No	8	0.0001964	0.00001874	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-32	0.000203	0.000121	0.015	No	8	0.0001861	0.00003219	75	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-33	0.000203	0.000115	0.015	No	8	0.0001841	0.00003339	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-9	0.000203	0.0000784	0.015	No	8	0.0001874	0.00004405	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lithium (mg/L)	GC-AP-MW-10	0.2674	0.1088	0.04	Yes	8	0.1881	0.07483	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-11	0.1332	0.07981	0.04	Yes	8	0.1065	0.02517	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-12	0.1484	0.08286	0.04	Yes	8	0.1156	0.03091	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.6224	0.2261	0.04	Yes	8	0.4243	0.187	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	0.8624	0.5346	0.04	Yes	8	0.6985	0.1547	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.6235	0.5505	0.04	Yes	8	0.587	0.03446	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.66	0.5835	0.04	Yes	8	0.6218	0.03613	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.7573	0.5457	0.04	Yes	8	0.6515	0.09978	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-18	0.3853	0.2992	0.04	Yes	8	0.3423	0.04063	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-21	0.146	0.0683	0.04	Yes	8	0.08874	0.02435	0	None	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-5	0.1387	0.09078	0.04	Yes	8	0.1147	0.02259	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-6	0.03231	0.008828	0.04	No	8	0.02259	0.01288	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-8	0.06436	0.004282	0.04	No	8	0.03635	0.02871	25	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-9	0.08852	0.008151	0.04	No	8	0.04834	0.03791	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-1	0.01015	0.000117	0.1	No	8	0.008896	0.003547	87.5	None	No	0.004	NP (NDs)



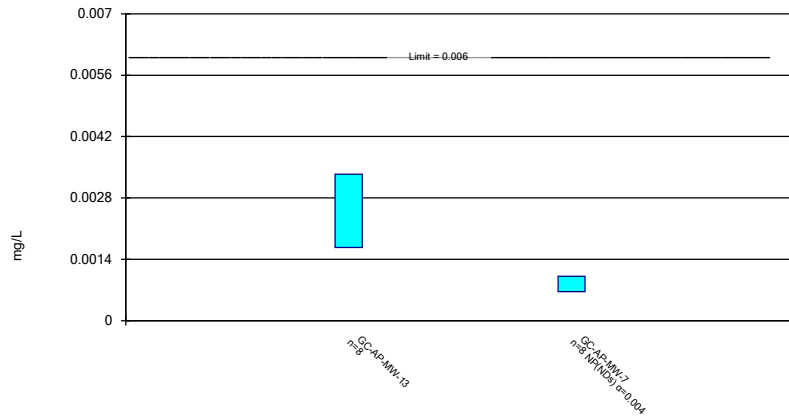
# Confidence Interval Summary Table - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 7/19/2023, 2:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	GC-AP-MW-10	0.01159	0.006461	0.1	No	8	0.009025	0.002419	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-11	0.01817	0.006967	0.1	No	8	0.01257	0.005287	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-12	0.134	0.0514	0.1	No	8	0.07556	0.02928	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-13	0.07717	0.0117	0.1	No	8	0.04478	0.04811	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-14	0.01842	0.01193	0.1	No	8	0.01518	0.003058	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-16	0.01015	0.000113	0.1	No	8	0.00515	0.005346	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-17	0.0694	0.0468	0.1	No	8	0.05711	0.009386	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-18	0.01015	0.000305	0.1	No	8	0.005248	0.00524	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-2	0.01015	0.0000804	0.1	No	8	0.007644	0.004641	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-21	0.0609	0.005075	0.1	No	8	0.02579	0.02514	12.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-25	0.01015	0.0000843	0.1	No	8	0.008892	0.003559	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-31	0.01015	0.0000741	0.1	No	8	0.008891	0.003562	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-5	0.004145	0.002604	0.1	No	8	0.003364	0.0007733	12.5	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-6	0.01015	0.00142	0.1	No	8	0.006003	0.004445	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-7	0.01015	0.00012	0.1	No	8	0.005146	0.00535	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-8	0.01015	0.0000812	0.1	No	8	0.008891	0.00356	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-1	0.001826	0.0006394	0.05	No	8	0.001315	0.0005808	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Selenium (mg/L)	GC-AP-MW-12	0.00281	0.00081	0.05	No	8	0.001239	0.000644	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-13	0.02855	0.002496	0.05	No	8	0.01474	0.01383	12.5	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	GC-AP-MW-2	0.001015	0.00054	0.05	No	8	0.0009013	0.0002109	75	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-3	0.001015	0.000551	0.05	No	8	0.0008596	0.0001947	37.5	None	No	0.004	NP (normality)
Selenium (mg/L)	GC-AP-MW-32	0.001015	0.00059	0.05	No	8	0.0009619	0.0001503	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-33	0.001015	0.00071	0.05	No	8	0.0009676	0.0001073	75	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-1	0.0001522	0.0001014	0.002	No	8	0.0001554	0.00004432	37.5	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-11	0.000203	0.00007	0.002	No	8	0.0001415	0.00006607	50	None	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-13	0.002066	0.0004014	0.002	No	8	0.001234	0.0007854	0	None	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-15	0.000203	0.000084	0.002	No	8	0.000149	0.00005879	50	None	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-16	0.0003759	0.0003183	0.002	No	8	0.0003471	0.00002719	0	None	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-2	0.0001537	0.00009952	0.002	No	8	0.0001553	0.00004505	37.5	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-21	0.000203	0.000106	0.002	No	8	0.0001689	0.00004725	62.5	Kaplan-Meier	No	0.004	NP (NDs)

### Parametric and Non-Parametric (NP) Confidence Interval

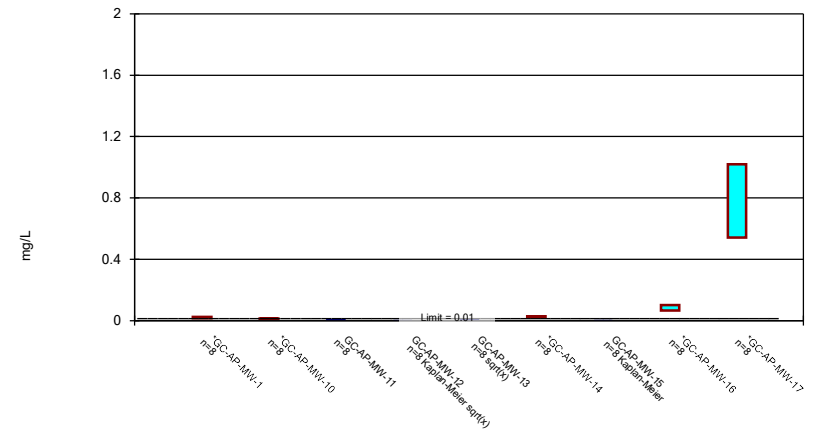
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 7/19/2023 1:55 PM View: CIs  
Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric Confidence Interval

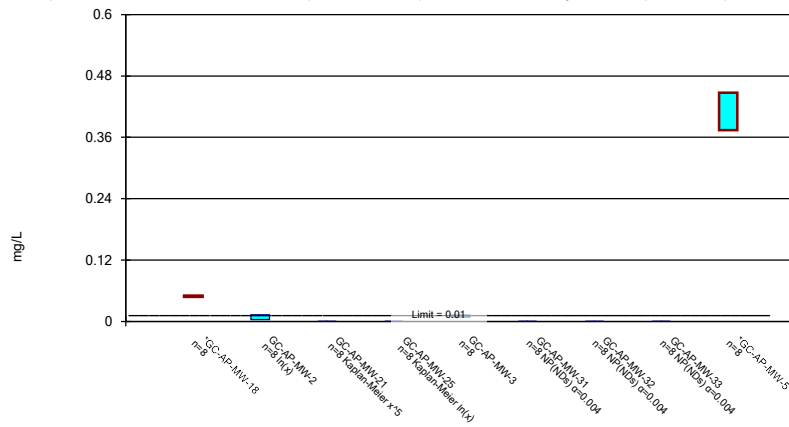
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 7/19/2023 1:55 PM View: CIs  
Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

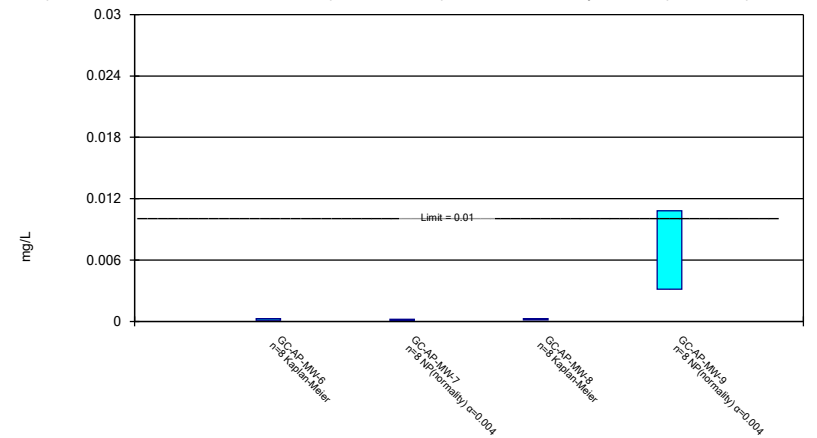
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 7/19/2023 1:55 PM View: CIs  
Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

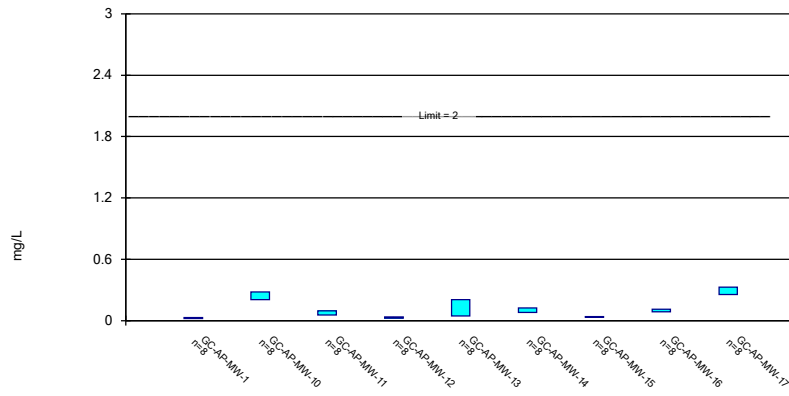
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 7/19/2023 1:55 PM View: CIs  
Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric Confidence Interval

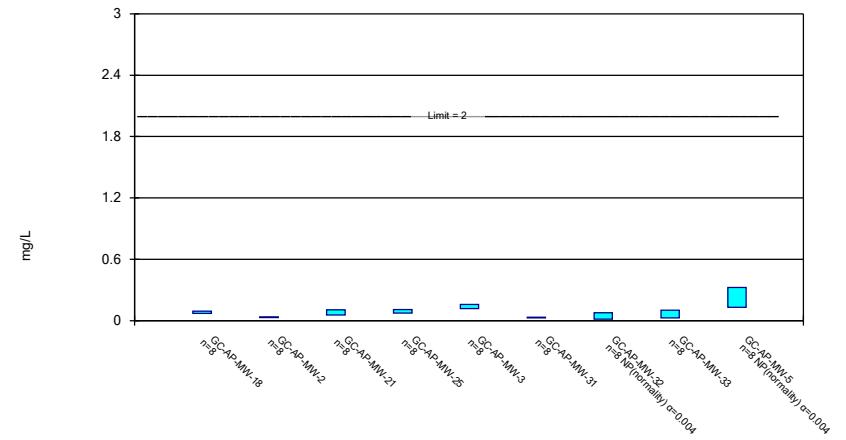
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/19/2023 1:55 PM View: CIs  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

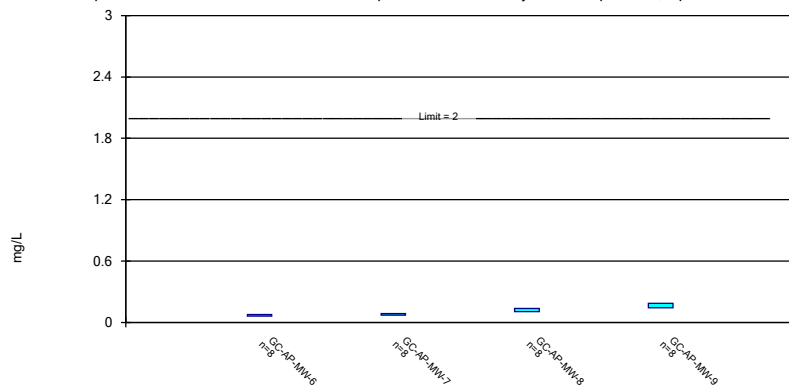
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/19/2023 1:56 PM View: CIs  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric Confidence Interval

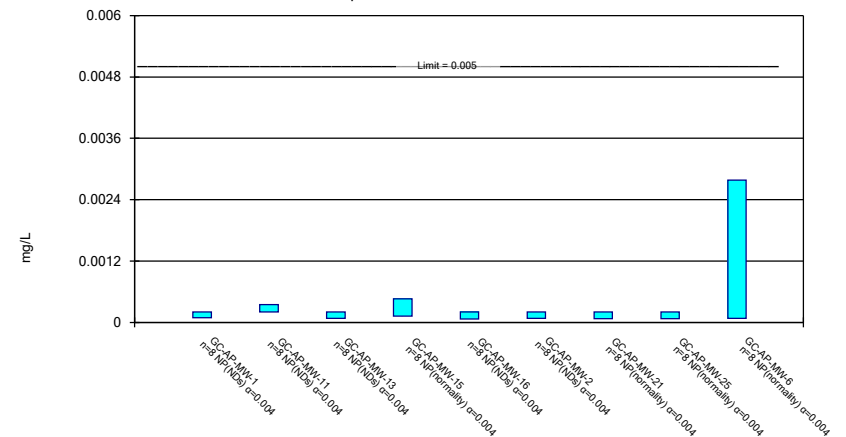
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/19/2023 1:56 PM View: CIs  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Non-Parametric Confidence Interval

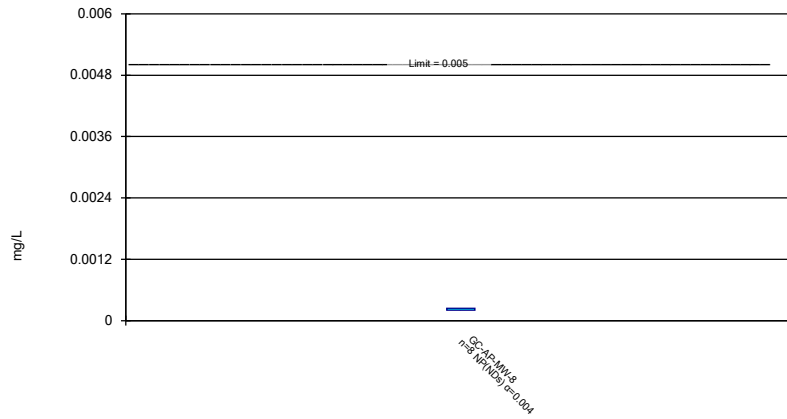
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 7/19/2023 1:56 PM View: CIs  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Non-Parametric Confidence Interval

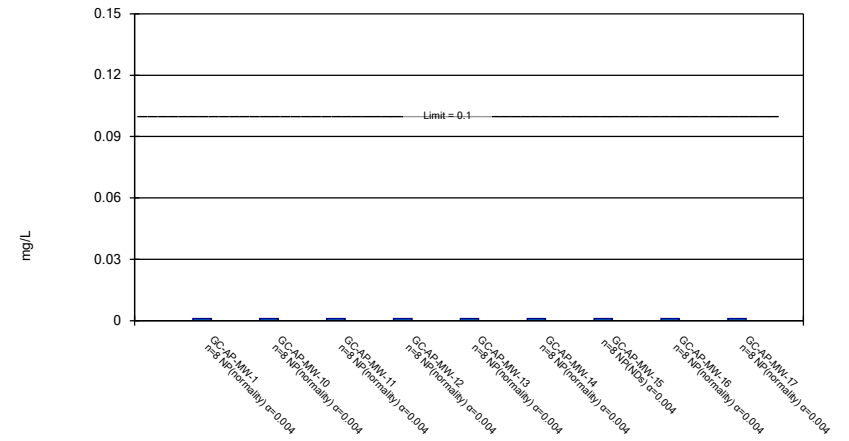
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 7/19/2023 1:56 PM View: CIs  
Plant Greene County Client: Southern Company Data: Greene County AP

### Non-Parametric Confidence Interval

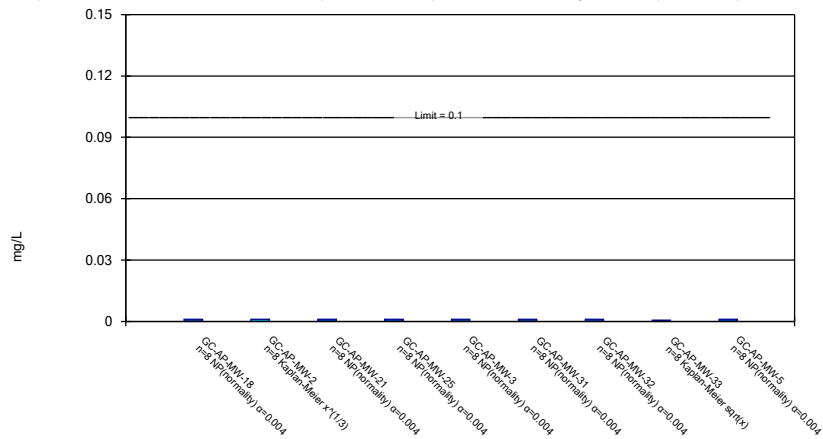
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 7/19/2023 1:56 PM View: CIs  
Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

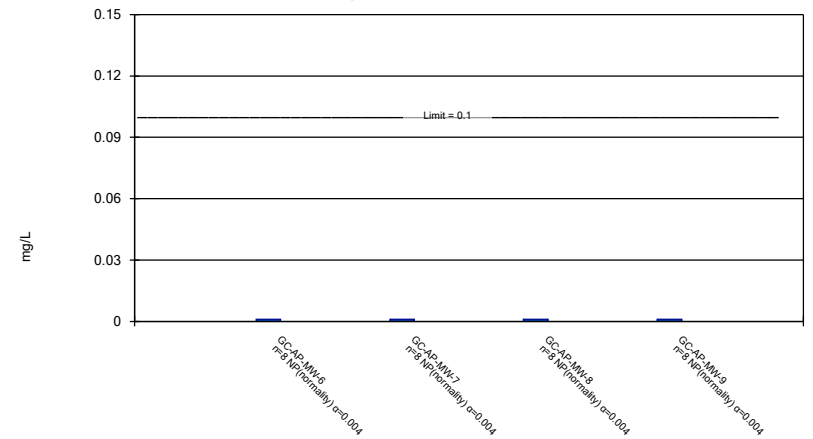
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 7/19/2023 1:56 PM View: CIs  
Plant Greene County Client: Southern Company Data: Greene County AP

### Non-Parametric Confidence Interval

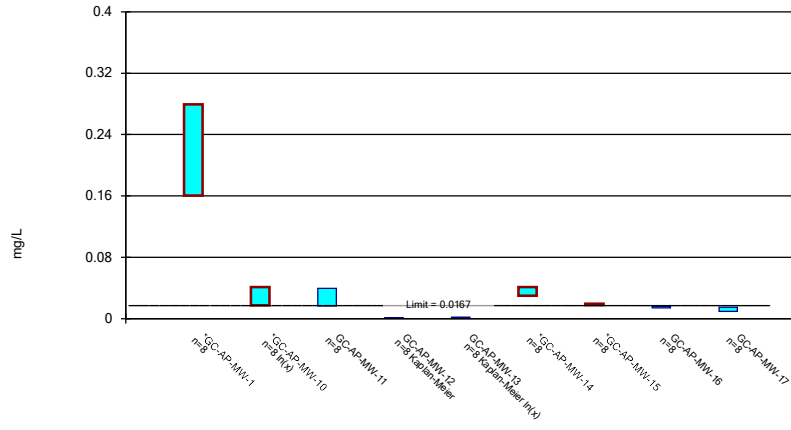
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 7/19/2023 1:56 PM View: CIs  
Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric Confidence Interval

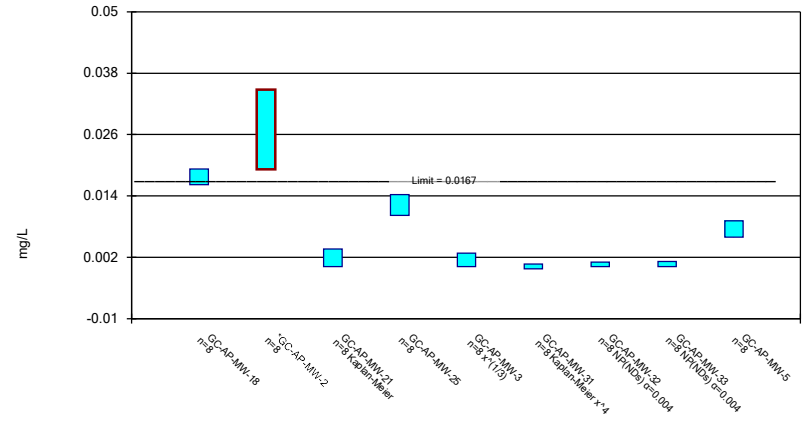
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/19/2023 1:56 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

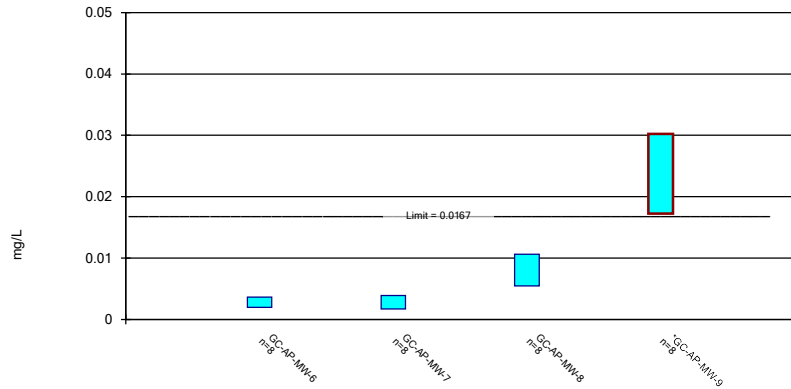
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/19/2023 1:56 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric Confidence Interval

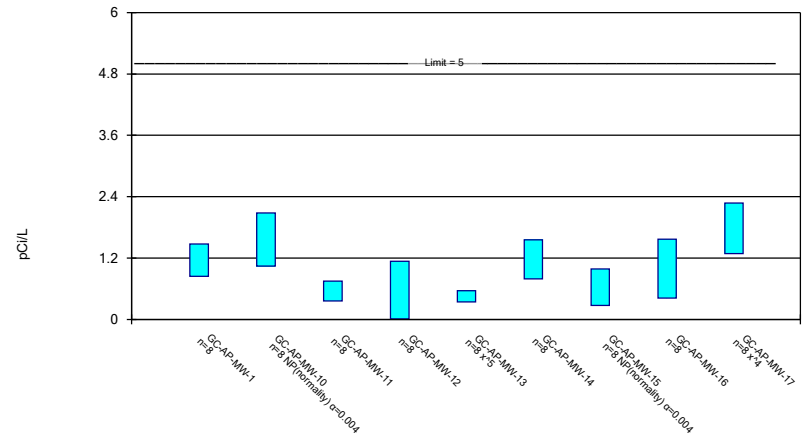
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/19/2023 1:56 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

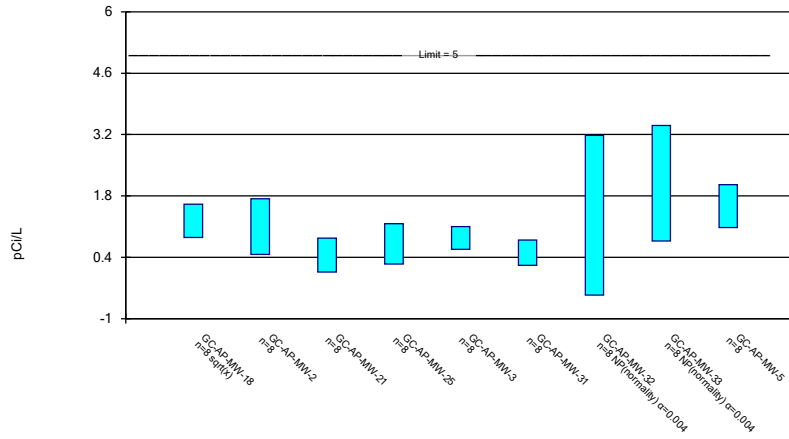
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/19/2023 1:56 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

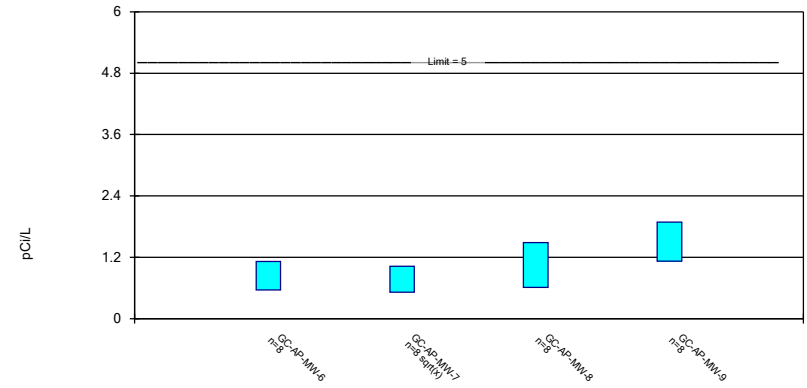
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/19/2023 1:56 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric Confidence Interval

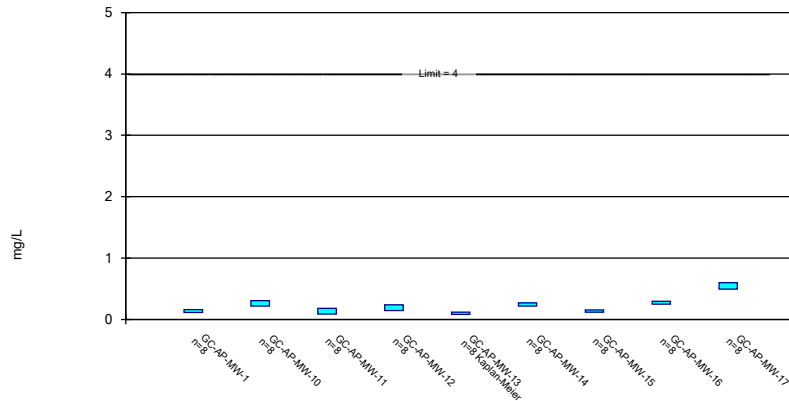
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/19/2023 1:56 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric Confidence Interval

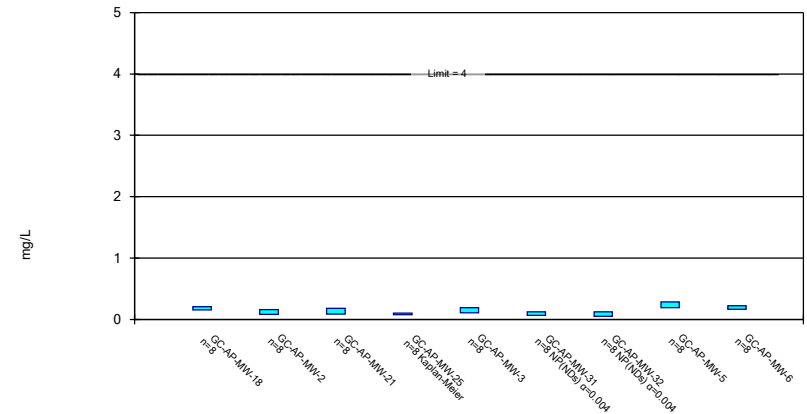
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 7/19/2023 1:56 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

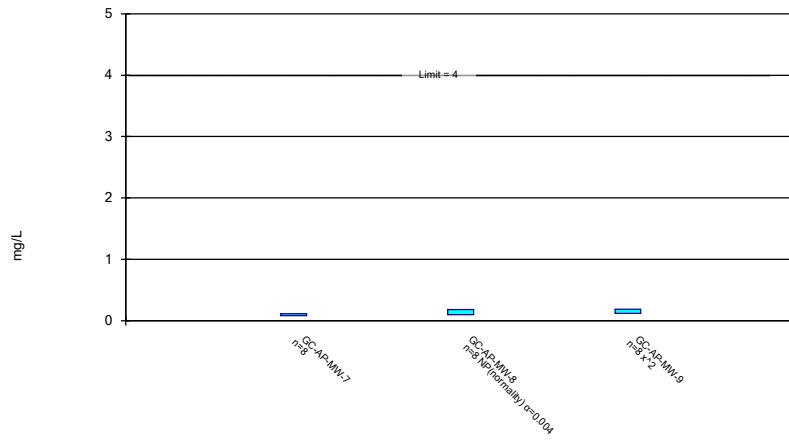
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 7/19/2023 1:56 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

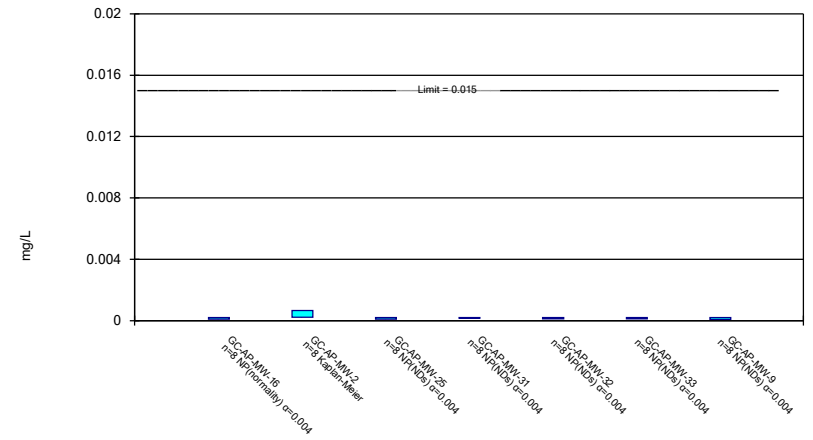
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 7/19/2023 1:56 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

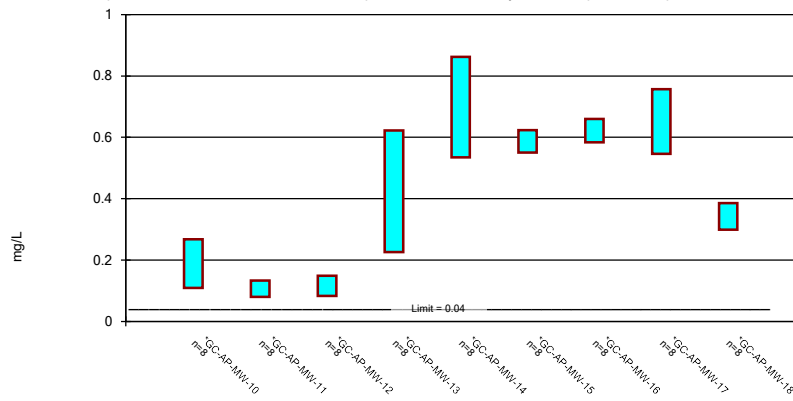
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 7/19/2023 1:56 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric Confidence Interval

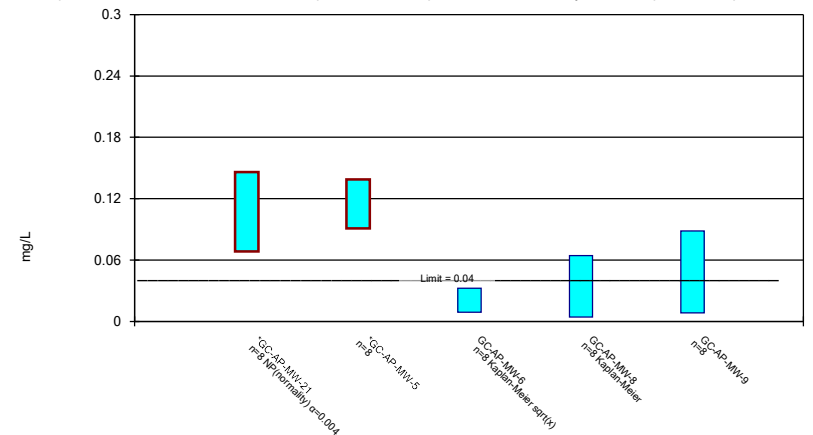
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 7/19/2023 1:56 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

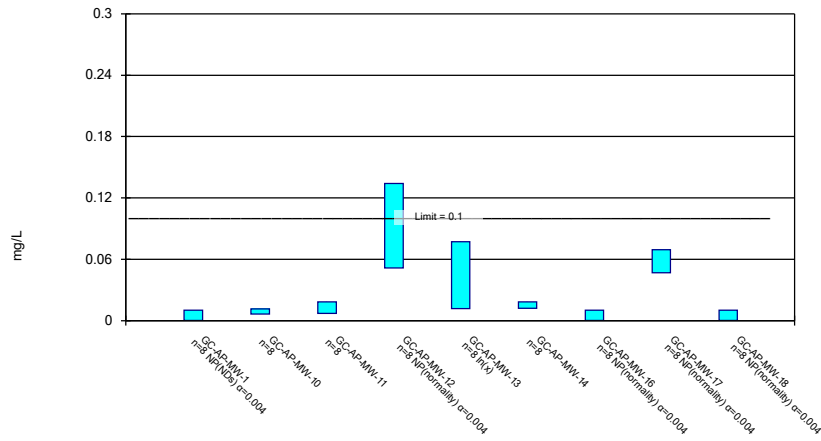
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 7/19/2023 1:56 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

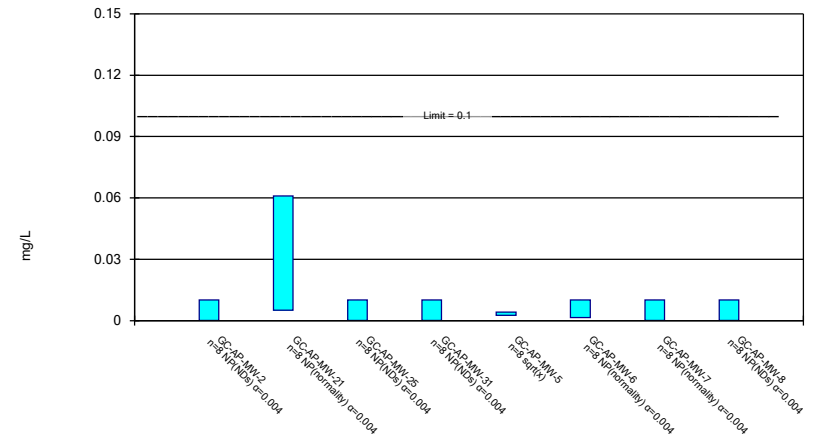
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 7/19/2023 1:56 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

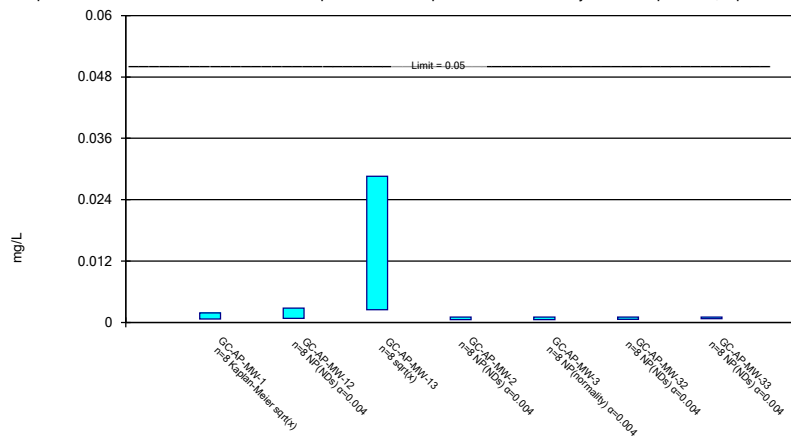
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 7/19/2023 1:56 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

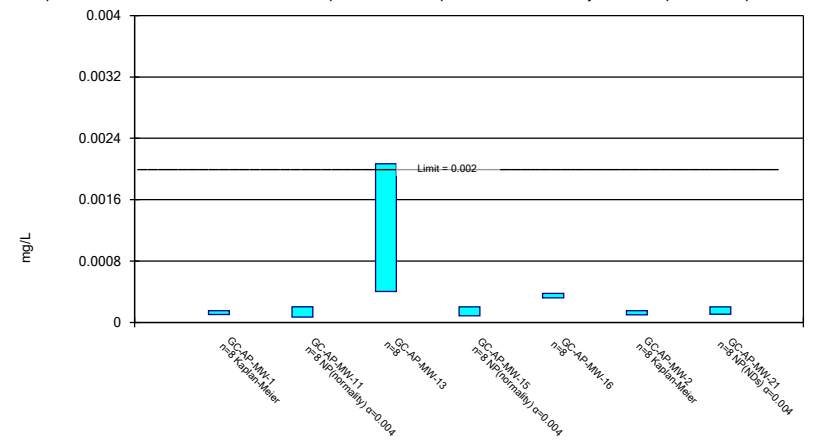
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 7/19/2023 1:56 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 7/19/2023 1:56 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP



# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 7/19/2023 2:19 PM View: Cls  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-13	GC-AP-MW-7
9/10/2019		<0.001015
9/11/2019	0.00261 (J)	
4/20/2020	0.00338	
4/21/2020		<0.001015
8/18/2020	0.00388	
8/19/2020		<0.001015
3/9/2021		<0.001015
3/15/2021	0.0016	
8/24/2021		0.00075 (J)
8/25/2021	0.00263	
3/29/2022		0.00066 (J)
4/6/2022	0.002	
10/17/2022	0.002	
10/18/2022		<0.001015
5/30/2023		<0.001015
5/31/2023	0.00192	
Mean	0.002503	0.0009375
Std. Dev.	0.0007887	0.0001455
Upper Lim.	0.003338	0.001015
Lower Lim.	0.001667	0.00066

# Confidence Interval

Constituent: Arsenic (mg/L)    Analysis Run 7/19/2023 2:19 PM    View: Cls  
 Plant Greene County    Client: Southern Company    Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
9/9/2019									0.356
9/10/2019	0.0226	0.0132	0.00378 (J)	<0.000203		0.0263	<0.000203	0.0786	
9/11/2019					0.00664				
4/20/2020					0.00181 (J)		<0.000203	0.105	
4/21/2020	0.0219			<0.000203		0.0178			0.689
4/22/2020		0.0121	0.00616						
8/11/2020						0.0207		0.0698	0.581
8/12/2020							<0.000203		
8/17/2020	0.0265								
8/18/2020		0.0121	0.00457 (J)	<0.000203	0.00176 (J)				
3/9/2021						0.0292		0.113	0.86
3/10/2021			0.00317	0.000251			0.000349		
3/15/2021		0.0125			0.00207				
3/16/2021	0.0238								
8/17/2021	0.0206							0.0765	0.937
8/24/2021		0.0129							
8/25/2021			0.00518	0.00023	0.00302	0.0224	0.00046		
3/29/2022				0.00023			0.00032		
3/30/2022			0.00097						
4/4/2022	0.0164	0.0117				0.0241			0.861
4/6/2022					0.00261			0.078	
10/5/2022	0.0152								
10/17/2022			0.00251	0.000335	0.00397				
10/18/2022		0.0117				0.0269	0.000379	0.0653	0.897
5/16/2023	0.012								
5/17/2023			0.00314						1.06
5/23/2023							0.000389		
5/24/2023		0.0123				0.0277			
5/30/2023				0.00029					
5/31/2023					0.00639			0.0855	
Mean	0.01988	0.01231	0.003685	0.0002431	0.003534	0.02439	0.0003133	0.08396	0.7801
Std. Dev.	0.004889	0.0005357	0.001624	4.762E-05	0.001978	0.003875	9.956E-05	0.01672	0.2259
Upper Lim.	0.02506	0.01288	0.005407	0.0002871	0.005535	0.0285	0.000412	0.1017	1.02
Lower Lim.	0.01469	0.01174	0.001963	0.0001929	0.001658	0.02028	0.0002145	0.06624	0.5406

# Confidence Interval

Constituent: Arsenic (mg/L)    Analysis Run 7/19/2023 2:19 PM    View: Cls  
 Plant Greene County    Client: Southern Company    Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5
9/9/2019	0.0498	0.022			0.00806				
9/10/2019			<0.000203	<0.000203					
9/11/2019						<0.000203	<0.000203	<0.000203	0.406
4/20/2020					0.00751				
4/21/2020	0.0478	0.013	<0.000203						0.42
4/22/2020				<0.000203		<0.000203	<0.000203	<0.000203	
8/11/2020				<0.000203		<0.000203			
8/12/2020	0.0485						<0.000203	<0.000203	0.415
8/17/2020		0.00768			0.00909				
8/18/2020			<0.000203						
3/9/2021	0.0505								
3/10/2021			0.000216	0.00033					
3/15/2021						0.000111 (J)	0.000142 (J)	<0.000203	
3/16/2021		0.0045			0.0112				0.473
8/17/2021	0.0509	0.00514			0.0119				
8/23/2021						<0.000203	0.00019 (J)	<0.000203	0.368
8/24/2021				0.00028					
8/25/2021			0.00014 (J)						
3/28/2022		0.00381				<0.000203	<0.000203	0.00015 (J)	
3/29/2022				0.00026					
3/30/2022			0.00017 (J)						
4/4/2022									0.432
4/5/2022					0.01				
4/6/2022	0.049								
10/5/2022		0.00331			0.0119	<0.000203	<0.000203	8.1E-05 (J)	
10/17/2022	0.0475		0.000217						0.366
10/18/2022				0.000434					
5/17/2023		0.00431			0.0116				0.405
5/22/2023	0.0491						<0.000203	0.000242	
5/23/2023						<0.000203			
5/30/2023			<0.000203	0.000217					
Mean	0.04914	0.007969	0.0001944	0.0002663	0.01016	0.0001915	0.0001938	0.000186	0.4106
Std. Dev.	0.001213	0.006488	2.626E-05	8.182E-05	0.001765	3.253E-05	2.14E-05	4.914E-05	0.03447
Upper Lim.	0.05042	0.01291	0.0002059	0.0003382	0.01203	0.000203	0.000203	0.000242	0.4472
Lower Lim.	0.04785	0.003156	0.0001073	0.000195	0.008286	0.000111	0.000142	8.1E-05	0.3741

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/19/2023 2:19 PM View: Cls  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
9/10/2019	<0.000203	<0.000203	<0.000203	0.0108
4/21/2020	<0.000203	<0.000203	<0.000203	0.0102
8/18/2020				0.0108
8/19/2020	<0.000203	<0.000203	<0.000203	
3/9/2021	0.000303	0.00015 (J)	0.000248	0.0105
8/24/2021	0.00028	0.0001 (J)	0.00027	0.00695
3/29/2022	0.00013 (J)	8E-05 (J)	0.00015 (J)	0.00316
10/18/2022	0.000182 (J)	0.000148 (J)	0.000261	0.00787
5/30/2023	<0.000203	<0.000203	0.000274	0.0107
Mean	0.0002134	0.0001613	0.0002265	0.008873
Std. Dev.	5.456E-05	5.018E-05	4.361E-05	0.002739
Upper Lim.	0.0002568	0.000203	0.0002671	0.0108
Lower Lim.	0.000123	8E-05	0.0001461	0.00316

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 7/19/2023 2:19 PM    View: Cls  
 Plant Greene County    Client: Southern Company    Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
9/9/2019									0.319
9/10/2019	0.0283	0.199	0.0651	0.0233		0.0685	0.0348	0.0754	
9/11/2019					0.275				
4/20/2020					0.104		0.0338	0.0921	
4/21/2020	0.0206			0.0325		0.102			0.306
4/22/2020		0.186	0.0967						
8/11/2020						0.0806		0.0948	0.29
8/12/2020							0.0352		
8/17/2020	0.0218								
8/18/2020		0.223	0.0866	0.021	0.199				
3/9/2021						0.125		0.102	0.352
3/10/2021			0.0637	0.0373			0.0365		
3/15/2021		0.261			0.0699				
3/16/2021	0.024								
8/17/2021	0.0211							0.101	0.254
8/24/2021		0.287							
8/25/2021			0.104	0.0323	0.114	0.11	0.0402		
3/29/2022				0.0355			0.0381		
3/30/2022			0.0485						
4/4/2022	0.0235	0.26				0.103			0.27
4/6/2022					0.0701			0.103	
10/5/2022	0.0256								
10/17/2022			0.0611	0.0301	0.119				
10/18/2022		0.248				0.103	0.036	0.103	0.253
5/16/2023	0.0336								
5/17/2023			0.0705						0.291
5/23/2023							0.0433		
5/24/2023		0.269				0.127			
5/30/2023				0.0309					
5/31/2023					0.0536			0.119	
Mean	0.02481	0.2416	0.07453	0.03036	0.1256	0.1024	0.03724	0.09879	0.2919
Std. Dev.	0.004359	0.0355	0.01922	0.005616	0.07533	0.02	0.003168	0.01235	0.03376
Upper Lim.	0.02943	0.2792	0.0949	0.03631	0.2054	0.1236	0.0406	0.1119	0.3277
Lower Lim.	0.02019	0.204	0.05415	0.02441	0.04573	0.08119	0.03388	0.0857	0.2561

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 7/19/2023 2:19 PM    View: Cls  
 Plant Greene County    Client: Southern Company    Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5
9/9/2019	0.101	0.035			0.111				
9/10/2019			0.0568	0.101					
9/11/2019						0.0267	0.0147	0.0824	0.323
4/20/2020					0.109				
4/21/2020	0.0926	0.0335	0.0763						0.138
4/22/2020				0.11		0.0285	0.0133	0.102	
8/11/2020				0.111		0.0264			
8/12/2020	0.0815						0.0127	0.0601	0.134
8/17/2020		0.0376			0.139				
8/18/2020			0.0517						
3/9/2021	0.0849								
3/10/2021			0.111	0.0797					
3/15/2021						0.0316	0.0692	0.0144	
3/16/2021		0.033			0.159				0.143
8/17/2021	0.0763	0.0347			0.15				
8/23/2021						0.0317	0.0764	0.0141	0.139
8/24/2021				0.0988					
8/25/2021			0.0865						
3/28/2022		0.0301				0.0325	0.0132	0.0773	
3/29/2022				0.0717					
3/30/2022			0.112						
4/4/2022									0.131
4/5/2022					0.145				
4/6/2022	0.0769								
10/5/2022		0.0344			0.138	0.0283	0.0133	0.0665	
10/17/2022	0.07		0.0774						0.134
10/18/2022				0.0704					
5/17/2023		0.0298			0.153				0.136
5/22/2023	0.0709						0.0152	0.102	
5/23/2023						0.0361			
5/30/2023			0.0604	0.0824					
Mean	0.08176	0.03351	0.07901	0.09063	0.138	0.03023	0.0285	0.06485	0.1598
Std. Dev.	0.01074	0.002586	0.02319	0.01656	0.01863	0.003327	0.02742	0.03458	0.06606
Upper Lim.	0.09315	0.03625	0.1036	0.1082	0.1577	0.03375	0.0764	0.1015	0.323
Lower Lim.	0.07038	0.03077	0.05444	0.07307	0.1183	0.0267	0.0127	0.0282	0.131

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/19/2023 2:19 PM View: Cls  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
9/10/2019	0.0789	0.0887	0.11	0.206
4/21/2020	0.0728	0.0762	0.116	0.175
8/18/2020				0.165
8/19/2020	0.0784	0.0816	0.119	
3/9/2021	0.0664	0.083	0.15	0.16
8/24/2021	0.0737	0.0782	0.122	0.168
3/29/2022	0.0614	0.0639	0.104	0.139
10/18/2022	0.0619	0.084	0.107	0.147
5/30/2023	0.0665	0.0795	0.136	0.15
Mean	0.07	0.07939	0.1205	0.1638
Std. Dev.	0.006929	0.007343	0.01558	0.0208
Upper Lim.	0.07734	0.08717	0.137	0.1858
Lower Lim.	0.06266	0.0716	0.104	0.1417

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 7/19/2023 2:19 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-11	GC-AP-MW-13	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-6
9/9/2019						<0.000203			
9/10/2019	<0.000203	<0.000203		<0.000203	<0.000203		<0.000203	<0.000203	<0.000203
9/11/2019			<0.000203						
4/20/2020			<0.000203	<0.000203	<0.000203				
4/21/2020	<0.000203					<0.000203	<0.000203		<0.000203
4/22/2020		<0.000203						<0.000203	
8/11/2020					<0.000203			<0.000203	
8/12/2020				<0.000203					
8/17/2020	<0.000203					<0.000203			
8/18/2020		<0.000203	<0.000203				<0.000203		
8/19/2020									<0.000203
3/9/2021					<0.000203				0.00278
3/10/2021		0.000347		0.00012 (J)			7.02E-05 (J)	<0.000203	
3/15/2021			<0.000203						
3/16/2021	<0.000203					0.00013 (J)			
8/17/2021	<0.000203				<0.000203	<0.000203			
8/24/2021								9E-05 (J)	0.00018 (J)
8/25/2021		<0.000203	<0.000203	0.00014 (J)			<0.000203		
3/28/2022						0.00012 (J)			
3/29/2022				0.00046				7E-05 (J)	0.0005
3/30/2022		<0.000203							
4/4/2022	<0.000203								
4/6/2022			8E-05 (J)		<0.000203				
10/5/2022	9.2E-05 (J)					<0.000203			
10/17/2022		<0.000203	0.000145 (J)				0.000102 (J)		
10/18/2022				0.000135 (J)	6.9E-05 (J)			8.3E-05 (J)	<0.000203
5/16/2023	8.9E-05 (J)								
5/17/2023		<0.000203				7.7E-05 (J)			
5/23/2023				0.00019 (J)					
5/30/2023							0.000138 (J)	0.0001 (J)	8.1E-05 (J)
5/31/2023			<0.000203		<0.000203				
Mean	0.0001749	0.000221	0.0001804	0.0002068	0.0001863	0.0001678	0.000149	0.0001444	0.0005441
Std. Dev.	5.208E-05	5.091E-05	4.535E-05	0.000108	4.738E-05	5.093E-05	6.146E-05	6.321E-05	0.0009113
Upper Lim.	0.000203	0.000347	0.000203	0.00046	0.000203	0.000203	0.000203	0.000203	0.00278
Lower Lim.	8.9E-05	0.000203	8E-05	0.00012	6.9E-05	7.7E-05	7E-05	7E-05	8.1E-05



# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 7/19/2023 2:19 PM View: Cls  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-8
9/10/2019	<0.000203
4/21/2020	<0.000203
8/19/2020	<0.000203
3/9/2021	0.000241
8/24/2021	<0.000203
3/29/2022	<0.000203
10/18/2022	<0.000203
5/30/2023	<0.000203
Mean	0.0002078
Std. Dev.	1.344E-05
Upper Lim.	0.000241
Lower Lim.	0.000203

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/19/2023 2:19 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
9/9/2019									<0.001015
9/10/2019	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	
9/11/2019					<0.001015				
4/20/2020					<0.001015		<0.001015	<0.001015	
4/21/2020	<0.001015			<0.001015		<0.001015			<0.001015
4/22/2020		<0.001015	<0.001015						
8/11/2020						<0.001015		<0.001015	<0.001015
8/12/2020							<0.001015		
8/17/2020	<0.001015								
8/18/2020		<0.001015	<0.001015	<0.001015	<0.001015				
3/9/2021						0.000357 (J)		0.000444 (J)	0.000216 (J)
3/10/2021			<0.001015	0.000224 (J)			0.000301 (J)		
3/15/2021		0.000357 (J)			0.000311 (J)				
3/16/2021	0.000341 (J)								
8/17/2021	0.00034 (J)							0.0004 (J)	0.00022 (J)
8/24/2021		0.00036 (J)							
8/25/2021			0.00027 (J)	0.00035 (J)	0.00026 (J)	0.00023 (J)	0.00027 (J)		
3/29/2022				0.00043 (J)			<0.001015		
3/30/2022			0.00023 (J)						
4/4/2022	0.00045 (J)	<0.001015				0.00025 (J)			0.00022 (J)
4/6/2022					0.0003 (J)			0.00034 (J)	
10/5/2022	0.000287 (J)								
10/17/2022			0.000286 (J)	0.000332 (J)	0.000237 (J)				
10/18/2022		0.000217 (J)				<0.001015	<0.001015	0.000267 (J)	0.000211 (J)
5/16/2023	0.000326 (J)								
5/17/2023			0.000293 (J)						0.0003 (J)
5/23/2023							<0.001015		
5/24/2023		0.000338 (J)				0.000305 (J)			
5/30/2023				<0.001015					
5/31/2023					0.000232 (J)			0.000327 (J)	
Mean	0.0005986	0.0006665	0.0006424	0.0006745	0.0005481	0.0006503	0.0008326	0.0006029	0.0005265
Std. Dev.	0.0003478	0.0003752	0.0003988	0.0003682	0.0003876	0.0003917	0.0003378	0.0003452	0.0004055
Upper Lim.	0.001015	0.001015	0.001015	0.001015	0.001015	0.001015	0.001015	0.001015	0.001015
Lower Lim.	0.000287	0.000217	0.00023	0.000224	0.000232	0.00023	0.00027	0.000267	0.000211

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/19/2023 2:19 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5
9/9/2019	<0.001015	<0.001015			<0.001015				
9/10/2019			<0.001015	<0.001015					
9/11/2019						<0.001015	<0.001015	<0.001015	<0.001015
4/20/2020					<0.001015				
4/21/2020	<0.001015	<0.001015	<0.001015						<0.001015
4/22/2020				<0.001015		<0.001015	<0.001015	<0.001015	
8/11/2020				<0.001015		<0.001015			
8/12/2020	<0.001015						<0.001015	<0.001015	<0.001015
8/17/2020		<0.001015			<0.001015				
8/18/2020			<0.001015						
3/9/2021	0.000346 (J)								
3/10/2021			0.000333 (J)	0.0003 (J)					
3/15/2021						0.000468 (J)	0.000431 (J)	0.000679 (J)	
3/16/2021		0.0004 (J)			0.000347 (J)				0.000285 (J)
8/17/2021	0.00023 (J)	0.00267			0.00032 (J)				
8/23/2021						0.00042 (J)	0.00038 (J)	0.0005 (J)	0.00027 (J)
8/24/2021				0.00028 (J)					
8/25/2021			0.00027 (J)						
3/28/2022		0.0003 (J)				0.00039 (J)	0.00042 (J)	0.00044 (J)	
3/29/2022				0.00041 (J)					
3/30/2022			0.00022 (J)						
4/4/2022									0.00025 (J)
4/5/2022					0.00039 (J)				
4/6/2022	0.00031 (J)								
10/5/2022		0.000256 (J)			0.000286 (J)	0.000268 (J)	0.000301 (J)	0.000311 (J)	
10/17/2022	0.000294 (J)		0.00026 (J)						0.000348 (J)
10/18/2022				<0.001015					
5/17/2023		0.000305 (J)			0.000301 (J)				<0.001015
5/22/2023	0.000293 (J)						0.000355 (J)	0.000477 (J)	
5/23/2023						0.000293 (J)			
5/30/2023			0.000232 (J)	0.000249 (J)					
Mean	0.0005648	0.000872	0.000545	0.0006624	0.0005861	0.0006105	0.0006165	0.0006815	0.0006516
Std. Dev.	0.0003742	0.0008058	0.0003906	0.0003798	0.0003565	0.000341	0.0003324	0.0002938	0.0003895
Upper Lim.	0.001015	0.001056	0.001015	0.001015	0.001015	0.001015	0.001015	0.000607	0.001015
Lower Lim.	0.00023	0.0001374	0.00022	0.000249	0.000286	0.000268	0.000301	0.0003576	0.00025

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/19/2023 2:19 PM View: Cls  
Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
9/10/2019	<0.001015	<0.001015	<0.001015	<0.001015
4/21/2020	<0.001015	<0.001015	<0.001015	<0.001015
8/18/2020				<0.001015
8/19/2020	<0.001015	<0.001015	<0.001015	
3/9/2021	0.000347 (J)	0.000351 (J)	0.000346 (J)	0.000381 (J)
8/24/2021	0.00026 (J)	0.00036 (J)	0.00031 (J)	0.0003 (J)
3/29/2022	<0.001015	0.00024 (J)	0.00027 (J)	0.00027 (J)
10/18/2022	0.000228 (J)	0.000297 (J)	0.000217 (J)	0.000238 (J)
5/30/2023	0.000234 (J)	0.000284 (J)	0.000233 (J)	0.000368 (J)
Mean	0.0006411	0.0005721	0.0005526	0.0005753
Std. Dev.	0.0004013	0.0003687	0.000385	0.0003671
Upper Lim.	0.001015	0.001015	0.001015	0.001015
Lower Lim.	0.000228	0.00024	0.000217	0.000238

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/19/2023 2:19 PM View: CIs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
9/9/2019									0.0121
9/10/2019	0.104	0.0191	0.02	<0.000203		0.0278	0.0201	0.0162	
9/11/2019					<0.000203				
4/20/2020					<0.000203		0.0189	0.0146	
4/21/2020	0.206			<0.000203		0.0339			0.0158
4/22/2020		0.0233	0.0319						
8/11/2020						0.0373		0.0148	0.0122
8/12/2020							0.0184		
8/17/2020	0.195								
8/18/2020		0.0287	0.0298	<0.000203	<0.000203				
3/9/2021						0.0302		0.0162	0.0151
3/10/2021			0.0197	0.00118			0.0189		
3/15/2021		0.0475			0.000312				
3/16/2021	0.257								
8/17/2021	0.24							0.0155	0.0109
8/24/2021		0.0514							
8/25/2021			0.0507	0.00094	7E-05 (J)	0.0436	0.0181		
3/29/2022				0.00088			0.0172		
3/30/2022			0.0157						
4/4/2022	0.296	0.0218				0.0423			0.0115
4/6/2022					0.00126			0.0147	
10/5/2022	0.226								
10/17/2022			0.0256	0.00077	0.00424				
10/18/2022		0.0223				0.0349	0.0189	0.0143	0.00934
5/16/2023	0.236								
5/17/2023			0.0296						0.00834
5/23/2023							0.0182		
5/24/2023		0.0176				0.0346			
5/30/2023				0.000536					
5/31/2023					0.00348			0.0136	
Mean	0.22	0.02896	0.02788	0.0006144	0.001246	0.03558	0.01859	0.01499	0.01191
Std. Dev.	0.05621	0.0131	0.01086	0.0003844	0.001668	0.005427	0.0008391	0.0009156	0.002563
Upper Lim.	0.2796	0.04115	0.03939	0.0009955	0.002026	0.04133	0.01948	0.01596	0.01463
Lower Lim.	0.1604	0.01747	0.01636	0.0002332	5.362E-05	0.02982	0.0177	0.01402	0.009194

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/19/2023 2:19 PM View: CIs  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5
9/9/2019	0.0174	0.0154			0.00413 (J)				
9/10/2019			<0.000203	0.0127					
9/11/2019						<0.000203	<0.000203	<0.000203	0.00767
4/20/2020					0.00396 (J)				
4/21/2020	0.0173	0.0194	<0.000203						0.00601
4/22/2020				0.0133		<0.000203	<0.000203	<0.000203	
8/11/2020				0.0126		<0.000203			
8/12/2020	0.0152						<0.000203	<0.000203	0.00678
8/17/2020		0.0249			<0.000203				
8/18/2020			<0.000203						
3/9/2021	0.017								
3/10/2021			0.00204	0.0115					
3/15/2021						0.000624	0.000908	<0.000203	
3/16/2021		0.0272			0.00076				0.00857
8/17/2021	0.0175	0.0296			0.00039				
8/23/2021						0.0006	0.00105	<0.000203	0.00645
8/24/2021				0.0117					
8/25/2021			0.00147						
3/28/2022		0.0309				0.00061	<0.000203	0.00099	
3/29/2022				0.0101					
3/30/2022			0.00284						
4/4/2022									0.0104
4/5/2022					0.00083				
4/6/2022	0.0183								
10/5/2022		0.0293			0.000297	0.000728	<0.000203	0.000909	
10/17/2022	0.0201		0.00501						0.0062
10/18/2022				0.00995					
5/17/2023		0.0394			0.000658				0.00833
5/22/2023	0.019						<0.000203	0.00117	
5/23/2023						0.000627			
5/30/2023			0.00318	0.016					
Mean	0.01773	0.02701	0.001894	0.01223	0.001391	0.0004748	0.000397	0.0005105	0.007551
Std. Dev.	0.001456	0.007346	0.001734	0.001937	0.001657	0.0002284	0.0003612	0.0004304	0.001502
Upper Lim.	0.01927	0.0348	0.003612	0.01428	0.002799	0.0006655	0.00105	0.00117	0.009143
Lower Lim.	0.01618	0.01923	0.0001748	0.01018	0.0001522	-0.0002792	0.000203	0.000203	0.00596

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/19/2023 2:19 PM View: CIs  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
9/10/2019	0.00306 (J)	0.0034 (J)	0.0108	0.0177
4/21/2020	0.00228 (J)	0.00206 (J)	0.0111	0.0166
8/18/2020				0.0164
8/19/2020	0.00278 (J)	0.0046 (J)	0.00975	
3/9/2021	0.00367	0.00181	0.00707	0.0247
8/24/2021	0.00419	0.00333	0.00898	0.0323
3/29/2022	0.00223	0.0014	0.00619	0.0267
10/18/2022	0.00233	0.00301	0.00537	0.0297
5/30/2023	0.00194	0.00279	0.00504	0.0258
Mean	0.00281	0.0028	0.008038	0.02374
Std. Dev.	0.0007849	0.001029	0.002428	0.006142
Upper Lim.	0.003642	0.003891	0.01061	0.03025
Lower Lim.	0.001978	0.001709	0.005464	0.01723

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/19/2023 2:19 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
9/9/2019									1.29
9/10/2019	1.39	1.1	0.57	0.434 (U)		0.852	0.3 (U)	0.516 (U)	
9/11/2019					0.557 (U)				
4/20/2020					0.256 (U)		0.693	0.493 (U)	
4/21/2020	0.712			-0.0655 (U)		0.653			0.859
4/22/2020		1.11	0.502 (U)						
8/11/2020						1.64		1.48	2.14
8/12/2020							0.983		
8/17/2020	1.46								
8/18/2020		1.08	0.457 (U)	0.135 (U)	0.568 (U)				
3/9/2021						1.28 (U)		1.2 (U)	2.27
3/10/2021			0.666 (U)	0.481 (U)			0.335 (U)		
3/15/2021		1.12 (U)			0.537 (U)				
3/16/2021	1.45								
8/17/2021	1.36							0.49 (U)	1.97
8/24/2021		1.45							
8/25/2021			0.729 (U)	0.113 (U)	0.3 (U)	1.01	0.314 (U)		
3/29/2022				1.37			0.273 (U)		
3/30/2022			0.597 (U)						
4/4/2022	0.899	2.08				1.03			2.17
4/6/2022					0.338 (U)			1 (U)	
10/5/2022	1.12								
10/17/2022			0.175 (U)	0.99 (U)	0.529 (U)				
10/18/2022		1.04				1.25	0.69 (U)	0.772 (U)	1.22
5/16/2023	0.881 (U)								
5/17/2023			0.741 (U)						2.29
5/23/2023							0.723 (U)		
5/24/2023		1.6				1.67			
5/30/2023				1.14					
5/31/2023					0.512 (U)			2	
Mean	1.159	1.323	0.5546	0.5747	0.4496	1.173	0.5389	0.9939	1.776
Std. Dev.	0.2965	0.3667	0.1836	0.5304	0.1286	0.3592	0.2666	0.5443	0.5631
Upper Lim.	1.473	2.08	0.7492	1.137	0.5612	1.554	0.983	1.571	2.274
Lower Lim.	0.8448	1.04	0.36	0.01247	0.344	0.7924	0.273	0.417	1.284



# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L)    Analysis Run 7/19/2023 2:19 PM    View: Cls  
 Plant Greene County    Client: Southern Company    Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5
9/9/2019	1.08	0.3 (U)			1.12				
9/10/2019			0.0889 (U)	0.578					
9/11/2019						0.28 (U)	-0.464 (U)	1.02	1.46
4/20/2020					0.899				
4/21/2020	0.888	0.663 (U)	0.271 (U)						0.882
4/22/2020				0.218 (U)		0.0983 (U)	0.474 (U)	1.08	
8/11/2020				0.511 (U)		0.767			
8/12/2020	1.17						3.18	3.41	2.08
8/17/2020		0.817			0.738				
8/18/2020			-0.0105 (U)						
3/9/2021	1.11 (U)								
3/10/2021			0.418 (U)	1.03 (U)					
3/15/2021						0.817 (U)	1.11 (U)	0.771 (U)	
3/16/2021		1.05 (U)			0.553 (U)				1.71
8/17/2021	2.04	2.01			1.09				
8/23/2021						0.345 (U)	1.09	1.01 (U)	2.11
8/24/2021				0.693 (U)					
8/25/2021			0.305 (U)						
3/28/2022		0.745 (U)				0.413 (U)	0.682 (U)	1.36	
3/29/2022				0.37 (U)					
3/30/2022			1.04						
4/4/2022									1.13
4/5/2022					0.532 (U)				
4/6/2022	1.18 (U)								
10/5/2022		1.89			0.688 (U)	0.837 (U)	0.467 (U)	1.02	
10/17/2022	0.84 (U)		0.772 (U)						1.93
10/18/2022				0.617 (U)					
5/17/2023		1.32			1.1 (U)				1.25 (U)
5/22/2023	1.48 (U)						0.602 (U)	2.36	
5/23/2023						0.475 (U)			
5/30/2023			0.732 (U)	1.6					
Mean	1.224	1.099	0.4521	0.7021	0.84	0.504	0.8926	1.504	1.569
Std. Dev.	0.3837	0.6024	0.3641	0.4339	0.2457	0.2744	1.045	0.9115	0.4602
Upper Lim.	1.609	1.738	0.8379	1.162	1.1	0.7949	3.18	3.41	2.057
Lower Lim.	0.8514	0.4609	0.06616	0.2423	0.5795	0.2132	-0.464	0.771	1.081

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/19/2023 2:19 PM View: Cls  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
9/10/2019	1.14	0.569 (U)	0.898	1.75
4/21/2020	0.679 (U)	0.549 (U)	1.09	1.31
8/18/2020				1.59
8/19/2020	0.96	1.04	0.6 (U)	
3/9/2021	1.12 (U)	0.545 (U)	1.6	1.16 (U)
8/24/2021	0.645 (U)	0.865 (U)	1.67	1.43
3/29/2022	0.394 (U)	0.575 (U)	0.621 (U)	1.25
10/18/2022	1.02	1.19	0.741 (U)	1.29
5/30/2023	0.77 (U)	0.777 (U)	1.17	2.26
Mean	0.841	0.7638	1.049	1.505
Std. Dev.	0.2627	0.2496	0.4154	0.3608
Upper Lim.	1.119	1.023	1.489	1.887
Lower Lim.	0.5626	0.5145	0.6084	1.123

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/19/2023 2:19 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
9/9/2019									0.477
9/10/2019	0.179	0.226	0.191	0.26		0.209	0.122	0.267	
9/11/2019					0.118				
4/20/2020					0.0844 (J)		0.14	0.245	
4/21/2020	0.12			0.198		0.254			0.565
4/22/2020		0.224	0.167						
8/11/2020						0.278		0.294	0.515
8/12/2020							0.147		
8/17/2020	0.115								
8/18/2020		0.203	0.165	0.223	0.108				
3/9/2021						0.263		0.286	0.628
3/10/2021			0.0749 (J)	0.161			0.115		
3/15/2021		0.324			0.0737 (J)				
3/16/2021	0.129								
8/17/2021	0.158							0.286	0.494
8/24/2021		0.277							
8/25/2021			0.135	0.188	0.111	0.239	0.167		
3/29/2022				0.107 (J)			0.117 (J)		
3/30/2022			<0.125						
4/4/2022	0.124 (JD)	0.2785 (D)				0.226 (D)			0.5855 (D)
4/6/2022					<0.125			0.2395 (D)	
10/5/2022	0.125								
10/17/2022			0.118 (J)	0.197	<0.125				
10/18/2022		0.248				0.211	0.139	0.27	0.544
5/16/2023	0.144								
5/17/2023			0.157						0.535
5/23/2023							0.144		
5/24/2023		0.303				0.258			
5/30/2023				0.18					
5/31/2023					0.102 (J)			0.284	
Mean	0.1368	0.2604	0.1338	0.1893	0.09026	0.2423	0.1364	0.2714	0.5429
Std. Dev.	0.02205	0.04212	0.04581	0.04461	0.02237	0.02522	0.0176	0.02011	0.04946
Upper Lim.	0.1601	0.3051	0.1824	0.2365	0.116	0.269	0.155	0.2928	0.5954
Lower Lim.	0.1134	0.2158	0.08524	0.142	0.08306	0.2155	0.1177	0.2501	0.4905

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/19/2023 2:19 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-5	GC-AP-MW-6
9/9/2019	0.157	0.163			0.121				
9/10/2019			0.194	<0.125					0.227
9/11/2019						<0.125	0.0518 (J)	0.2	
4/20/2020					0.112				
4/21/2020	0.171	0.126	0.173					0.224	0.218
4/22/2020				<0.125		<0.125	<0.125		
8/11/2020				<0.125		<0.125			
8/12/2020	0.198						<0.125	0.221	
8/17/2020		0.0753 (J)			0.148				
8/18/2020			0.18						
8/19/2020									0.223
3/9/2021	0.205								0.17
3/10/2021			0.113	0.104					
3/15/2021						<0.125	<0.125		
3/16/2021		0.185			0.23			0.282	
8/17/2021	0.212	0.0974 (J)			0.184				
8/23/2021						<0.125	<0.125	0.322	
8/24/2021				0.0914 (J)					0.161
8/25/2021			0.117						
3/28/2022		0.105 (J)				<0.125	<0.125		
3/29/2022				0.0724 (J)					0.193
3/30/2022			<0.125						
4/4/2022								0.216	
4/5/2022					0.146 (JD)				
4/6/2022	0.1385 (JD)								
10/5/2022		0.124 (J)			0.12 (J)	0.0671 (J)	<0.125		
10/17/2022	0.176		0.0988 (J)					0.192	
10/18/2022				0.0955 (J)					0.154
5/17/2023		0.0918 (J)			0.147			0.24	
5/22/2023	0.186						<0.125		
5/23/2023						<0.125			
5/30/2023			0.135	0.0807 (J)					0.193
Mean	0.1804	0.1209	0.1342	0.1024	0.151	0.1178	0.1159	0.2371	0.1924
Std. Dev.	0.02494	0.03713	0.04523	0.02096	0.03921	0.02047	0.02588	0.04395	0.02867
Upper Lim.	0.2069	0.1603	0.1821	0.1006	0.1926	0.125	0.125	0.2837	0.2228
Lower Lim.	0.154	0.08159	0.08622	0.07702	0.1094	0.0671	0.0518	0.1905	0.162

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/19/2023 2:19 PM View: Cis  
Plant Greene County Client: Southern Company Data: Greene County AP

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	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
9/10/2019	0.086 (J)	0.113	0.178
4/21/2020	0.0951 (J)	0.114	0.181
8/18/2020			0.177
8/19/2020	0.103	0.116	
3/9/2021	0.0949 (J)	0.109	0.147
8/24/2021	0.1	0.141	0.164
3/29/2022	0.104 (J)	0.108 (J)	<0.125
10/18/2022	0.0649 (J)	0.0981 (J)	0.156
5/30/2023	0.111 (J)	0.179	0.127
Mean	0.09486	0.1223	0.1491
Std. Dev.	0.01421	0.02599	0.03945
Upper Lim.	0.1099	0.179	0.1842
Lower Lim.	0.0798	0.0981	0.115

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 7/19/2023 2:19 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-16	GC-AP-MW-2	GC-AP-MW-25	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-9
9/9/2019		<0.000203					
9/10/2019	<0.000203		<0.000203				<0.000203
9/11/2019				<0.000203	<0.000203	<0.000203	
4/20/2020	<0.000203						
4/21/2020		<0.000203					<0.000203
4/22/2020			<0.000203	<0.000203	<0.000203	<0.000203	
8/11/2020	<0.000203		<0.000203	<0.000203			
8/12/2020					<0.000203	<0.000203	
8/17/2020		<0.000203					
8/18/2020							<0.000203
3/9/2021	0.000109 (J)						7.84E-05 (J)
3/10/2021			8.84E-05 (J)				
3/15/2021				<0.000203	0.000121 (J)	<0.000203	
3/16/2021		0.000736					
8/17/2021	0.00011 (J)	0.00059					
8/23/2021				<0.000203	0.00015 (J)	<0.000203	
8/24/2021			<0.000203				<0.000203
3/28/2022		0.00066		0.00015 (J)	<0.000203	0.00015 (J)	
3/29/2022			<0.000203				<0.000203
4/6/2022	9E-05 (J)						
10/5/2022		0.000453		<0.000203	<0.000203	0.000115 (J)	
10/18/2022	8.9E-05 (J)		<0.000203				<0.000203
5/17/2023		0.000464					
5/22/2023					<0.000203	0.000193 (J)	
5/23/2023				<0.000203			
5/30/2023			<0.000203				<0.000203
5/31/2023	0.000145 (J)						
Mean	0.000144	0.000439	0.0001887	0.0001964	0.0001861	0.0001841	0.0001874
Std. Dev.	5.178E-05	0.0002164	4.052E-05	1.874E-05	3.219E-05	3.339E-05	4.405E-05
Upper Lim.	0.000203	0.0006535	0.000203	0.000203	0.000203	0.000203	0.000203
Lower Lim.	8.9E-05	0.0002245	8.84E-05	0.00015	0.000121	0.000115	7.84E-05

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/19/2023 2:19 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18
9/9/2019								0.571	0.408
9/10/2019	0.112	0.124	0.0598		0.765	0.6	0.581		
9/11/2019				0.246					
4/20/2020				0.201		0.604	0.62		
4/21/2020			0.166		0.672			0.629	0.386
4/22/2020	0.123	0.126							
8/11/2020					0.712		0.599	0.552	
8/12/2020						0.594			0.326
8/18/2020	0.124	0.109	0.0892	0.42					
3/9/2021					0.791		0.692	0.864	0.364
3/10/2021		0.0826	0.125			0.63			
3/15/2021	0.155			0.308					
8/17/2021							0.647	0.585	0.335
8/24/2021	0.198								
8/25/2021		0.132	0.117	0.5	0.985	0.622			
3/29/2022			0.13			0.534			
3/30/2022		0.0615							
4/4/2022	0.329				0.607			0.647	
4/6/2022				0.584			0.638		0.312
10/17/2022		0.0928	0.122	0.764					0.321
10/18/2022	0.241				0.478	0.556	0.594	0.656	
5/17/2023		0.124						0.708	
5/22/2023									0.286
5/23/2023						0.556			
5/24/2023	0.223				0.578				
5/30/2023			0.116						
5/31/2023				0.371			0.603		
Mean	0.1881	0.1065	0.1156	0.4243	0.6985	0.587	0.6218	0.6515	0.3423
Std. Dev.	0.07483	0.02517	0.03091	0.187	0.1547	0.03446	0.03613	0.09978	0.04063
Upper Lim.	0.2674	0.1332	0.1484	0.6224	0.8624	0.6235	0.66	0.7573	0.3853
Lower Lim.	0.1088	0.07981	0.08286	0.2261	0.5346	0.5505	0.5835	0.5457	0.2992

# Confidence Interval

Constituent: Lithium (mg/L)    Analysis Run 7/19/2023 2:19 PM    View: Cls  
 Plant Greene County    Client: Southern Company    Data: Greene County AP

	GC-AP-MW-21	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-8	GC-AP-MW-9
9/10/2019	0.0862		0.0267	0.0928	0.128
9/11/2019		0.117			
4/21/2020	0.0782	0.13	0.0518	0.0582	0.0693
8/12/2020		0.132			
8/18/2020	0.0718				0.0591
8/19/2020			0.0197 (J)	0.0511	
3/9/2021			0.013 (J)	0.0249	0.0417
3/10/2021	0.146				
3/16/2021		0.149			
8/23/2021		0.116			
8/24/2021			0.00951 (J)	0.0155 (J)	0.0383
8/25/2021	0.0872				
3/29/2022			<0.02	0.00828 (J)	0.0126 (J)
3/30/2022	0.082				
4/4/2022		0.102			
10/17/2022	0.0902	0.0901			
10/18/2022			<0.02	<0.02	0.0189 (J)
5/17/2023		0.0817			
5/30/2023	0.0683		<0.02	<0.02	0.0188 (J)
Mean	0.08874	0.1147	0.02259	0.03635	0.04834
Std. Dev.	0.02435	0.02259	0.01288	0.02871	0.03791
Upper Lim.	0.146	0.1387	0.03231	0.06436	0.08852
Lower Lim.	0.0683	0.09078	0.008828	0.004282	0.008151



# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/19/2023 2:19 PM View: Cls

Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18
9/9/2019								0.0681	<0.01015
9/10/2019	<0.01015	0.00757 (J)	0.0205	0.134		0.0125	<0.01015		
9/11/2019					0.0226				
4/20/2020					0.0924		<0.01015		
4/21/2020	<0.01015			0.0947		0.0141		0.0694	<0.01015
4/22/2020		0.00747 (J)	0.0147						
8/11/2020						0.0117	<0.01015	0.0506	
8/12/2020									<0.01015
8/17/2020	<0.01015								
8/18/2020		0.00808 (J)	0.0146	0.0938	0.145				
3/9/2021						0.0205	0.000113 (J)	0.067	0.000362
3/10/2021			0.00701	0.0611					
3/15/2021		0.0103			0.0146				
3/16/2021	0.000117 (J)								
8/17/2021	<0.01015						0.00014 (J)	0.0468	0.0004
8/24/2021		0.0132							
8/25/2021			0.0106	0.0547	0.0319	0.0127			
3/29/2022				0.0514					
3/30/2022			0.00425						
4/4/2022	<0.01015	0.0117				0.0166		0.054	
4/6/2022					0.0201		0.00015 (J)		0.00032
10/5/2022	<0.01015								
10/17/2022			0.0119	0.0568	0.0197				0.000305
10/18/2022		0.0075				0.0181	0.000194 (J)	0.0513	
5/16/2023	<0.01015								
5/17/2023			0.017					0.0497	
5/22/2023									<0.01015
5/24/2023		0.00638 (J)				0.0152			
5/30/2023				0.058					
5/31/2023					0.0119		<0.01015		
Mean	0.008896	0.009025	0.01257	0.07556	0.04478	0.01518	0.00515	0.05711	0.005248
Std. Dev.	0.003547	0.002419	0.005287	0.02928	0.04811	0.003058	0.005346	0.009386	0.00524
Upper Lim.	0.01015	0.01159	0.01817	0.134	0.07717	0.01842	0.01015	0.0694	0.01015
Lower Lim.	0.000117	0.006461	0.006967	0.0514	0.0117	0.01193	0.000113	0.0468	0.000305

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/19/2023 2:19 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-31	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8
9/9/2019	<0.01015							
9/10/2019		0.0609	<0.01015			<0.01015	<0.01015	<0.01015
9/11/2019				<0.01015	0.00328 (J)			
4/21/2020	<0.01015	0.0562			0.00255 (J)	<0.01015	<0.01015	<0.01015
4/22/2020			<0.01015	<0.01015				
8/11/2020			<0.01015	<0.01015				
8/12/2020					0.00292 (J)			
8/17/2020	<0.01015							
8/18/2020		0.0505						
8/19/2020						<0.01015	<0.01015	<0.01015
3/9/2021						0.0024	0.000156 (J)	8.12E-05 (J)
3/10/2021		0.0123	8.43E-05 (J)					
3/15/2021				7.41E-05 (J)				
3/16/2021	8.04E-05 (J)				0.00358			
8/17/2021	0.00017 (J)							
8/23/2021				<0.01015	0.0031			
8/24/2021			<0.01015			0.00211	0.00013 (J)	<0.01015
8/25/2021		0.00789						
3/28/2022	<0.01015			<0.01015				
3/29/2022			<0.01015			0.00142	0.00016 (J)	<0.01015
3/30/2022		0.00682						
4/4/2022					0.00354			
10/5/2022	<0.01015			<0.01015				
10/17/2022		0.00666			0.00287			
10/18/2022			<0.01015			0.00149	0.00012 (J)	<0.01015
5/17/2023	<0.01015				<0.01015			
5/23/2023				<0.01015				
5/30/2023		<0.01015	<0.01015			<0.01015	<0.01015	<0.01015
Mean	0.007644	0.02579	0.008892	0.008891	0.003364	0.006003	0.005146	0.008891
Std. Dev.	0.004641	0.02514	0.003559	0.003562	0.0007733	0.004445	0.00535	0.00356
Upper Lim.	0.01015	0.0609	0.01015	0.01015	0.004145	0.01015	0.01015	0.01015
Lower Lim.	8.04E-05	0.005075	8.43E-05	7.41E-05	0.002604	0.00142	0.00012	8.12E-05

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 7/19/2023 2:19 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

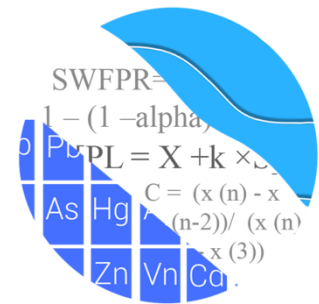
	GC-AP-MW-1	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-2	GC-AP-MW-3	GC-AP-MW-32	GC-AP-MW-33
9/9/2019				<0.001015	<0.001015		
9/10/2019	<0.001015	<0.001015					
9/11/2019			<0.001015			<0.001015	<0.001015
4/20/2020			0.0125		<0.001015		
4/21/2020	<0.001015	<0.001015		<0.001015			
4/22/2020						<0.001015	<0.001015
8/12/2020						<0.001015	<0.001015
8/17/2020	<0.001015			<0.001015	<0.001015		
8/18/2020		<0.001015	0.00416 (J)				
3/10/2021		<0.001015					
3/15/2021			0.0175			<0.001015	<0.001015
3/16/2021	0.00163			<0.001015	0.000959 (J)		
8/17/2021	0.00209			0.00054 (J)	0.00097 (J)		
8/23/2021						0.00059 (J)	<0.001015
8/25/2021		0.00281	0.00826				
3/28/2022				0.00058 (J)		<0.001015	0.00071 (J)
3/29/2022		<0.001015					
4/4/2022	0.00221						
4/5/2022					0.00074 (J)		
4/6/2022			0.111 (o)				
5/17/2022			0.0452 (R)				
10/5/2022	0.000737 (J)			<0.001015	0.000612 (J)	<0.001015	<0.001015
10/17/2022		0.00081 (J)	0.0103				
5/16/2023	0.000809 (J)						
5/17/2023				<0.001015	0.000551 (J)		
5/22/2023						<0.001015	0.000941 (J)
5/30/2023		0.00122					
5/31/2023			0.0195				
Mean	0.001315	0.001239	0.01474	0.0009013	0.0008596	0.0009619	0.0009676
Std. Dev.	0.0005808	0.000644	0.01383	0.0002109	0.0001947	0.0001503	0.0001073
Upper Lim.	0.001826	0.00281	0.02855	0.001015	0.001015	0.001015	0.001015
Lower Lim.	0.0006394	0.00081	0.002496	0.00054	0.000551	0.00059	0.00071

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 7/19/2023 2:19 PM View: Cls  
 Plant Greene County Client: Southern Company Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-11	GC-AP-MW-13	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-2	GC-AP-MW-21
9/9/2019						<0.000203	
9/10/2019	<0.000203	<0.000203		<0.000203	0.000396 (J)		<0.000203
9/11/2019			0.00214				
4/20/2020			0.000433 (J)	<0.000203	0.00032 (J)		
4/21/2020	<0.000203					<0.000203	<0.000203
4/22/2020		<0.000203					
8/11/2020					0.000329 (J)		
8/12/2020				<0.000203			
8/17/2020	<0.000203					<0.000203	
8/18/2020		<0.000203	0.00114				<0.000203
3/9/2021					0.000369		
3/10/2021		8.7E-05 (J)		8.78E-05 (J)			0.000106 (J)
3/15/2021			0.000506				
3/16/2021	0.000107 (J)					0.000101 (J)	
8/17/2021	0.00012 (J)				0.00036	0.00013 (J)	
8/25/2021		9E-05 (J)	0.00124	<0.000203			<0.000203
3/28/2022						0.00015 (J)	
3/29/2022				0.00012 (J)			
3/30/2022		7E-05 (J)					0.00011 (J)
4/4/2022	0.00016 (J)						
4/6/2022			0.00169		0.00035		
10/5/2022	0.000149 (J)					0.000158 (J)	
10/17/2022		<0.000203	0.00238				0.00012 (J)
10/18/2022				8.4E-05 (J)	0.000337		
5/16/2023	9.8E-05 (J)						
5/17/2023		7.3E-05 (J)				9.4E-05 (J)	
5/23/2023				8.8E-05 (J)			
5/30/2023							<0.000203
5/31/2023			0.000342		0.000316		
Mean	0.0001554	0.0001415	0.001234	0.000149	0.0003471	0.0001553	0.0001689
Std. Dev.	4.432E-05	6.607E-05	0.0007854	5.879E-05	2.719E-05	4.505E-05	4.725E-05
Upper Lim.	0.0001522	0.000203	0.002066	0.000203	0.0003759	0.0001537	0.000203
Lower Lim.	0.0001014	7E-05	0.0004014	8.4E-05	0.0003183	9.952E-05	0.000106

# GROUNDWATER STATS CONSULTING



January 8, 2024

Southern Company Services  
Attn: Mr. Greg Budd  
3535 Colonnade Parkway  
Birmingham, AL 35243

Re: Plant Greene County Ash Pond  
2<sup>nd</sup> Semi-Annual Event – October/November 2023

Dear Mr. Budd,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the October/November 2023 2<sup>nd</sup> semi-annual sample event for Alabama Power Company's Plant Greene County Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began at this site for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GC-AP-MW-23, GC-AP-MW-24, GC-AP-MW-26, GC-AP-MW-27, GC-AP-MW-28, GC-AP-MW-29, and GC-AP-MW-30
- **Downgradient wells:** GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-31, GC-AP-MW-32, and GC-AP-MW-33

- **Delineation wells:** GC-AP-PZ-4, GC-AP-MW-34HA, GC-AP-MW-35H, GC-AP-MW-36H, GC-AP-MW-37H, GC-AP-MW-38H, GC-AP-MW-39H, GC-AP-MW-40H, GC-AP-MW-41H, GC-AP-MW-42H, GC-AP-MW-43H, GC-AP-MW-44H, GC-AP-MW-45H, GC-AP-MW-46HO, GC-AP-MW-47HO, GC-AP-MW-48H, GC-AP-MW-49H, GC-AP-MW-50HO, GC-AP-MW-52HO, GC-AP-MW-53H, GC-AP-MW-54H, GC-AP-MW-55HO, GC-AP-MW-57H, GC-AP-MW-59HO, GC-AP-MW-60HO, GC-AP-MW-61HO, GC-AP-MW-62HO, GC-AP-MW-63HO, and GC-AP-MW-64HO

Note that delineation wells do not require statistics; therefore, data are plotted only on time series and box plots. Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was prepared according to the Statistical Analysis Plan approved by Dr. Kirk Cameron, Ph.D. Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to Groundwater Stats Consulting. The analysis was reviewed by Andrew Collins, Project Manager for Groundwater Stats Consulting.

The CCR program consists of the following constituents:

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) - antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A list of Appendix IV downgradient well/constituent pairs containing 100% non-detects follows this letter. Due to historic varying detection limits, the following reporting limits were substituted across all wells:

- Arsenic: 0.000203 mg/L
- Cadmium: 0.000203 mg/L
- Chromium: 0.001015 mg/L
- Cobalt: 0.000203 mg/L
- Fluoride: 0.04 mg/L
- Lead: 0.000203 mg/L
- Molybdenum: 0.01015 mg/L
- Selenium: 0.001015 mg/L
- Thallium: 0.000203 mg/L

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). A substitution of the most recent reporting limit is used for non-detect data. Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells.

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on analysis of the spatial variability of groundwater quality data among wells upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. The power curve provided in this report demonstrates that the selected statistical methods for Appendix III parameters complies with the USEPA Unified Guidance. The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves are based on the following statistical methods and site/data characteristics:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan
- # Background Samples: 144
- # Constituents: 7
- # Downgradient wells: 22

### **Summary of Statistical Methods – Appendix III Parameters**

Based on the earlier evaluation described above, interwell prediction limits were utilized in the analysis of this site.

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the annual false positive rate associated with parametric limits is fixed at 10% as recommended by the EPA Unified Guidance (2009), the false-positive rate associated with nonparametric limits is not fixed and depends upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits as appropriate.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half of the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data following each sampling event after careful screening for any new outliers. In some cases, such as pH, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

## **Background Update Summary**

Interwell prediction limits, which compare the most recent sample from each downgradient well to statistical limits constructed from pooled upgradient well data, are updated during each sample event. Data from upgradient wells are periodically re-screened for newly developing trends, which may require adjustment of the background period to eliminate trends, as well as for outliers over the entire record. Interwell prediction limits are used to evaluate boron, calcium, chloride, fluoride, pH, sulfate, and TDS.

## Outlier Analysis

Prior to constructing prediction limits, proposed background data through October/November 2023 at upgradient wells for boron, calcium, chloride, fluoride, pH, sulfate, and TDS.



Tukey's outlier tests identified outliers for chloride, fluoride, pH, sulfate, and TDS. Previously flagged values were confirmed by visual screening and Tukey's outlier tests. No additional measurements for Appendix III parameters were flagged as concentrations identified by Tukey's test appeared to be representative of spatial variation or were similar to other measurements among pooled upgradient well data.

Outliers are flagged with "o" and excluded to reduce variation, better represent background conditions, and provide limits that are conservative (i.e., lower) from a regulatory perspective. As mentioned above, flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. A summary Tukey's test results along with a list of flagged outliers follows this report (Figure C).

### Upgradient Well Trend Tests

The Sen's Slope/Mann Kendall trend test was used to evaluate the entire record of data from upgradient wells during the original screening for parameters utilizing interwell prediction limits at the 99% confidence level (Figure D). When statistically significant increasing trends are identified in upgradient wells, deselection of the earlier portion of data may be required prior to construction of interwell statistical limits if the trending data would result in statistical limits that are not conservative from a regulatory perspective. The following well/constituent pairs had statistically significant trends:

#### Increasing:

- Calcium: GC-AP-MW-24
- Chloride: GC-AP-MW-27
- Sulfate: GC-AP-MW-24, GC-AP-MW-27, and GC-AP-MW-28
- TDS: GC-AP-MW-24

#### Decreasing:

- Calcium: GC-AP-MW-23, GC-AP-MW-28, GC-AP-MW-29, and GC-AP-MW-30
- Chloride: GC-AP-MW-23
- pH: GC-AP-MW-23, GC-AP-MW-24, GC-AP-MW-27, GC-AP-MW-28, GC-AP-MW-29, and GC-AP-MW-30
- Sulfate: GC-AP-MW-23
- TDS: GC-AP-MW-23, GC-AP-MW-28, and GC-AP-MW-29

The majority of trends required no adjustments as the period of record was short and/or the magnitudes of the trends were low relative to the average concentrations in background.

Exceptions include the trends for pH at upgradient wells GC-AP-MW-23, GC-AP-MW-24, GC-AP-MW-27, GC-AP-MW-28, GC-AP-MW-29, and GC-AP-MW-30. The earlier portions of the records were truncated to remove the magnitude of the trend and construct statistical limits that are more representative of present-day groundwater quality conditions.

Note that statistically significant increasing trends were identified at upgradient well GC-AP-MW-24 for calcium, sulfate, and TDS. However, the more recent reported observations for calcium and TDS were similar to those observed in upgradient well GC-AP-MW-23; therefore, no adjustments were required for these constituents. Additionally, no adjustment was required for calcium, sulfate, and TDS since the statistical limit was representative of present-day groundwater quality conditions, was a nonparametric prediction limit constructed based on the highest report concentration among the upgradient wells, and was not influenced by the magnitude of the trend. All data at upgradient wells are continually monitored, as mentioned earlier, and will be adjusted in future analyses as necessary. A summary of any adjusted records will accompany the report.

## **Evaluation of Appendix III Parameters – October/November 2023**

### Interwell Prediction Limits

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for all Appendix III parameters (Figure E). Interwell prediction limits pool upgradient well data through October/November 2023 to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If a resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no further action is necessary. When no resamples are collected, any initial exceedances are considered SSIs. A summary of the prediction limits results may be found in the Prediction Limit Summary tables following this letter. Several exceedances for interwell prediction limits were identified.

## Trend Tests – Prediction Limit Exceedances

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure F). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells. When similar patterns exist upgradient of the site, it is an indication of variability in groundwater which may be unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

### Increasing:

- Boron: GC-AP-MW-5, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, and GC-AP-MW-25
- Calcium: GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-8, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, and GC-AP-MW-24 (upgradient)
- Chloride: GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-9, GC-AP-MW-31, and GC-AP-MW-27 (upgradient)
- Fluoride: GC-AP-MW-3, GC-AP-MW-14, GC-AP-MW-16, and GC-AP-MW-17
- pH: GC-AP-MW-16 and GC-AP-MW-17
- Sulfate: GC-AP-MW-24, GC-AP-MW-27, GC-AP-MW-28 (all upgradient), GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-10, and GC-AP-MW-11
- TDS: GC-AP-MW-24 (upgradient), GC-AP-MW-2, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, and GC-AP-MW-25

### Decreasing:

- Boron: GC-AP-MW-6 and GC-AP-MW-18
- Calcium: GC-AP-MW-23, GC-AP-MW-28, GC-AP-MW-29, GC-AP-MW-30 (all upgradient), and GC-AP-MW-1
- Chloride: GC-AP-MW-3, GC-AP-MW-5, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, and GC-AP-MW-23 (upgradient)
- pH: GC-AP-MW-23, GC-AP-MW-24, GC-AP-MW-27, GC-AP-MW-28, GC-AP-MW-29, and GC-AP-MW-30 (all upgradient)
- Sulfate: GC-AP-MW-15 and GC-AP-MW-23 (upgradient)
- TDS: GC-AP-MW-23, GC-AP-MW-28, GC-AP-MW-29 (all upgradient), and GC-AP-MW-3

## **Evaluation of Appendix IV Parameters – October/November 2023**

Prior to evaluating Appendix IV parameters, upgradient well data were screened through visual screening and Tukey's outlier test for potential outliers and extreme trending patterns that would lead to artificially elevated statistical limits. A discussion of those findings is provided below.

Tukey's outlier test on pooled upgradient well data for Appendix IV parameters through October/November 2023 identified values for barium, cobalt, combined radium 226 + 228, and fluoride. However, no additional outliers were flagged for barium, cobalt, combined radium, or fluoride as all measurements appeared to be representative of spatial variation or were similar to remaining concentrations among upgradient well data. Previously flagged values were confirmed by visual screening and Tukey's outlier test.

Additionally, downgradient well data through October/November 2023 were screened through visual screening using time series graphs. Since the downgradient well data are used to construct confidence intervals, a regulatory conservative approach is taken in that values that are marginally high relative to the rest of the data are retained unless there is particular justification for excluding them. Visual screening confirmed previously flagged outliers. No changes were made to previously flagged data were made among downgradient wells for Appendix IV parameters. A summary of flagged outliers follows this report (Figure C).

### Interwell Upper Tolerance Limits

Background limits were determined using upper tolerance limits (UTLs) constructed from pooled upgradient well data through October/November 2023 (Figure G). The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. As requested by ADEM to eliminate variation among upgradient well data, nonparametric tolerance limits, which use the highest value in screened background as the statistical limit, were constructed. A summary of the upper tolerance limits follows this letter.

### Groundwater Protection Standards

These background limits are then compared to the Maximum Contaminant Levels (MCLs) for each parameter, and the higher of the two is used as the GWPS (Figure H) in the confidence interval comparisons described below.

In accordance with Alabama Department of Environmental Management, the Groundwater Protections Standards (GWPS) were updated during this 2023 2<sup>nd</sup> semi-annual statistical analysis. The GWPS will be updated again during the 2025 2<sup>nd</sup> semi-annual statistical analysis. The methodology used to create these GWPS is described below.

### Confidence Intervals

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through October/November 2023 for each of the Appendix IV parameters (Figure I). These intervals were either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values as interval limits when n=8, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

As mentioned above, well/constituent pairs containing 100% non-detects in the most recent 8 samples did not require statistics; therefore, they were deselected prior to construction of confidence intervals. A list of deselected well/constituent pairs follows this report. Each confidence interval was compared with the corresponding GWPS. Only when the entire confidence interval is above the GWPS is the well/constituent pair considered to exceed its respective standard. Both a tabular summary and graphical presentation of the confidence interval results follow this letter. Exceedances were noted for the following well/constituent pairs:

- Arsenic: GC-AP-MW-1, GC-AP-MW-5, GC-AP-MW-10, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, and GC-AP-MW-18
- Cobalt: GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-14, and GC-AP-MW-15
- Lithium: GC-AP-MW-5, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, and GC-AP-MW-21

## Trend Test Evaluation – Appendix IV

When confidence interval exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 95% confidence level (Figure J). Utilizing the 95% confidence level for trend tests readily identifies significant trends and is more sensitive than the 99% confidence level without drastically increasing the false negative rate. Upgradient wells are included in the trend analyses for all parameters found to exceed their confidence intervals in downgradient wells. When similar patterns exist upgradient of the site, it is an indication of variability in groundwater which may be unrelated to practices at the site. Statistically significant trends were identified for the following well/constituent pairs:

### Increasing:

- Arsenic: GC-AP-MW-14 and GC-AP-MW-17
- Cobalt: GC-AP-MW-1, GC-AP-MW-2, GC-AP-MW-9, GC-AP-MW-10, GC-AP-MW-14, and GC-AP-MW-15
- Lithium: GC-AP-MW-10 and GC-AP-MW-11

### Decreasing:

- Arsenic: GC-AP-MW-26, GC-AP-MW-29 (both upgradient), and GC-AP-MW-18
- Cobalt: GC-AP-MW-26, GC-AP-MW-27, GC-AP-MW-29, GC-AP-MW-30 (all upgradient), and GC-AP-MW-11
- Lithium: GC-AP-MW-12, GC-AP-MW-15, GC-AP-MW-18, and GC-AP-MW-21

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Greene County Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Tristan Clark  
Groundwater Analyst

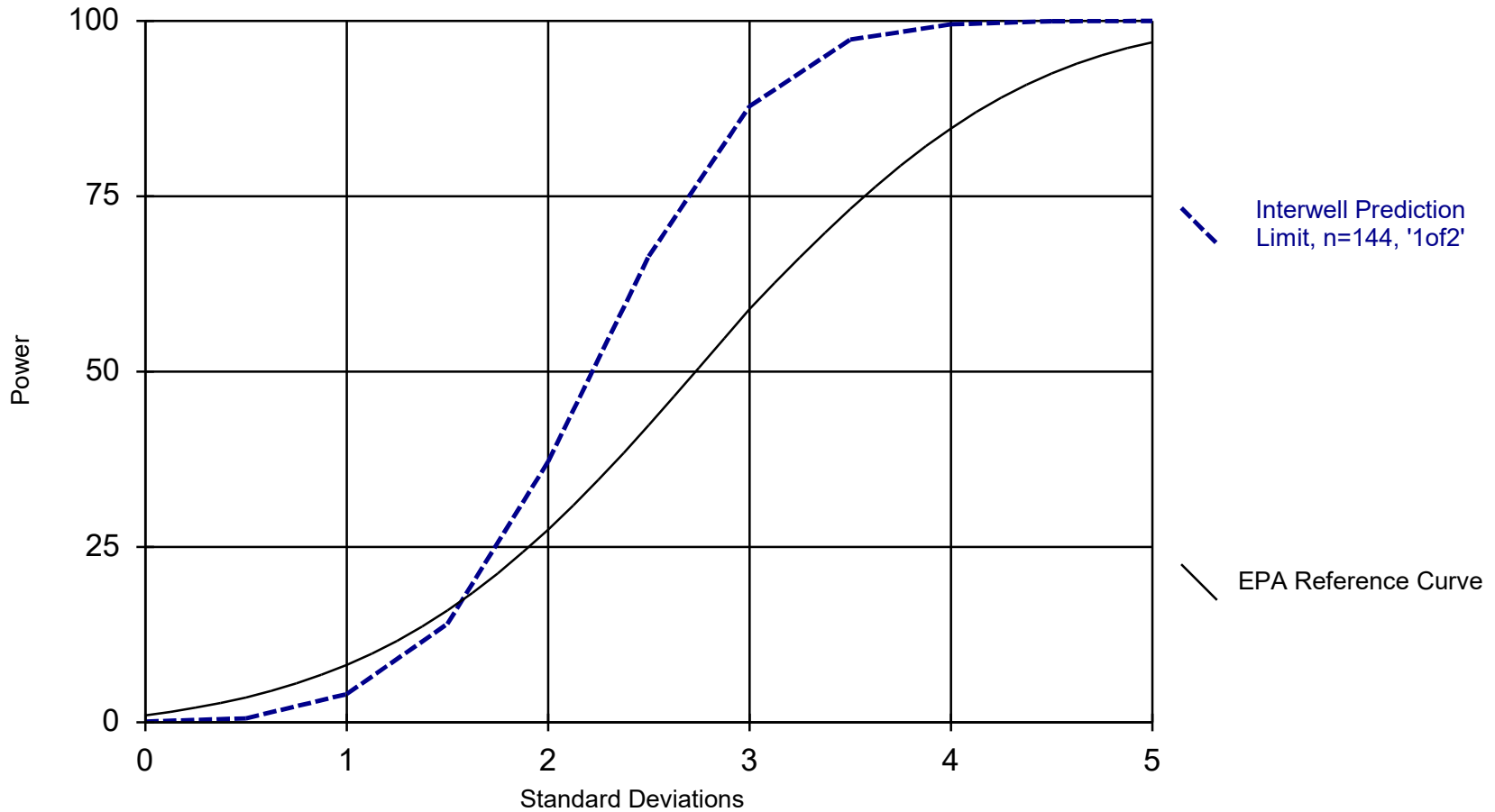


Andrew Collins  
Project Manager

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### Power Curve



Kappa = 2.12, based on 22 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 1/3/2024 8:26 AM View: Appendix III  
Plant Greene County Data: Greene County AP



# Date Ranges

Date: 1/3/2024 8:23 AM

Plant Greene County Data: Greene County AP

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## pH (SU)

GC-AP-MW-23 background:8/29/2017-10/25/2023, overall:8/29/2017-10/25/2023  
GC-AP-MW-24 background:8/29/2017-10/25/2023, overall:8/29/2017-10/25/2023  
GC-AP-MW-27 overall:11/15/2016-10/24/2023, background:11/15/2016-10/24/2023  
GC-AP-MW-28 background:9/20/2016-10/24/2023, overall:9/20/2016-10/24/2023  
GC-AP-MW-29 background:1/4/2017-10/24/2023, overall:1/4/2017-10/24/2023  
GC-AP-MW-30 background:11/15/2016-10/24/2023, overall:11/15/2016-10/24/2023

# 100% Non-Detects: Appendix IV Downgradient

Analysis Run 1/1/2024 5:07 PM View: Appendix IV  
Plant Greene County Data: Greene County AP

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## Antimony (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-2, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-8, GC-AP-MW-9

## Beryllium (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-2, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

## Cadmium (mg/L)

GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5

## Lead (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-6, GC-AP-MW-8

## Lithium (mg/L)

GC-AP-MW-2, GC-AP-MW-25, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-7

## Mercury (mg/L)

GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-2, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

## Molybdenum (mg/L)

GC-AP-MW-15, GC-AP-MW-3, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-9

## Selenium (mg/L)

GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-21, GC-AP-MW-25, GC-AP-MW-31, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

## Thallium (mg/L)

GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-25, GC-AP-MW-3, GC-AP-MW-31, GC-AP-MW-32, GC-AP-MW-33, GC-AP-MW-5, GC-AP-MW-6, GC-AP-MW-7, GC-AP-MW-8, GC-AP-MW-9

# Trend Tests - Upgradient Wells - Significant Results

Plant Greene County Data: Greene County AP Printed 1/1/2024, 4:54 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.078	-163	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	5.625	191	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.1453	-135	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.1205	-142	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-30 (bg)	-0.1081	-129	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.07075	-132	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-27 (bg)	0.06811	99	92	Yes	22	4.545	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (bg)	-0.07406	-194	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-24 (bg)	-0.05505	-148	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (bg)	-0.07473	-145	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (bg)	-0.0874	-119	-118	Yes	26	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (bg)	-0.3139	-187	-118	Yes	26	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (bg)	-0.08357	-164	-118	Yes	26	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.013	-167	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	12.44	129	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.4803	112	92	Yes	22	22.73	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.4682	121	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-5.823	-144	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	17.8	126	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-2.057	-121	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-1.199	-126	-92	Yes	22	63.64	n/a	n/a	0.01	NP

# Trend Tests - Upgradient Wells - All Results

Plant Greene County    Data: Greene County AP    Printed 1/1/2024, 4:54 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-23 (bg)	0	43	87	No	21	85.71	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-24 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-26 (bg)	0	10	87	No	21	95.24	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-27 (bg)	0	27	87	No	21	90.48	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-28 (bg)	0	10	87	No	21	95.24	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-29 (bg)	0	14	87	No	21	95.24	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-30 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-2.078</b>	<b>-163</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-24 (bg)</b>	<b>5.625</b>	<b>191</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GC-AP-MW-26 (bg)	0.03942	3	92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (bg)	0.07088	75	92	No	22	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-28 (bg)</b>	<b>-0.1453</b>	<b>-135</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-29 (bg)</b>	<b>-0.1205</b>	<b>-142</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-30 (bg)</b>	<b>-0.1081</b>	<b>-129</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-0.07075</b>	<b>-132</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-24 (bg)	-0.04687	-24	-92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-26 (bg)	0.001905	3	92	No	22	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-27 (bg)</b>	<b>0.06811</b>	<b>99</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>4.545</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-28 (bg)	-0.05253	-78	-92	No	22	9.091	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-29 (bg)	-0.1764	-92	-92	No	22	9.091	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-30 (bg)	0.2257	80	92	No	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-23 (bg)	-0.0005071	-16	-92	No	22	9.091	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-24 (bg)	0	29	92	No	22	63.64	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-26 (bg)	-0.007827	-66	-68	No	18	44.44	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-27 (bg)	0	37	87	No	21	90.48	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-28 (bg)	0	-14	-87	No	21	80.95	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-29 (bg)	0	-1	-92	No	22	90.91	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-30 (bg)	0	21	92	No	22	95.45	n/a	n/a	0.01	NP
<b>pH (SU)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-0.07406</b>	<b>-194</b>	<b>-111</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH (SU)</b>	<b>GC-AP-MW-24 (bg)</b>	<b>-0.05505</b>	<b>-148</b>	<b>-111</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH (SU)	GC-AP-MW-26 (bg)	-0.08064	-93	-111	No	25	0	n/a	n/a	0.01	NP
<b>pH (SU)</b>	<b>GC-AP-MW-27 (bg)</b>	<b>-0.07473</b>	<b>-145</b>	<b>-111</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH (SU)</b>	<b>GC-AP-MW-28 (bg)</b>	<b>-0.0874</b>	<b>-119</b>	<b>-118</b>	<b>Yes</b>	<b>26</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH (SU)</b>	<b>GC-AP-MW-29 (bg)</b>	<b>-0.3139</b>	<b>-187</b>	<b>-118</b>	<b>Yes</b>	<b>26</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH (SU)</b>	<b>GC-AP-MW-30 (bg)</b>	<b>-0.08357</b>	<b>-164</b>	<b>-118</b>	<b>Yes</b>	<b>26</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-1.013</b>	<b>-167</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-24 (bg)</b>	<b>12.44</b>	<b>129</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GC-AP-MW-26 (bg)	-0.6758	-37	-92	No	22	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-27 (bg)</b>	<b>0.4803</b>	<b>112</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>22.73</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-28 (bg)</b>	<b>0.4682</b>	<b>121</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GC-AP-MW-29 (bg)	0	33	92	No	22	45.45	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-30 (bg)	0	20	92	No	22	68.18	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-5.823</b>	<b>-144</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-24 (bg)</b>	<b>17.8</b>	<b>126</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-26 (bg)	-0.9865	-26	-92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-27 (bg)	0.4366	60	92	No	22	22.73	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-28 (bg)</b>	<b>-2.057</b>	<b>-121</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-29 (bg)</b>	<b>-1.199</b>	<b>-126</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>63.64</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-30 (bg)	0.2789	32	92	No	22	27.27	n/a	n/a	0.01	NP

# Appendix III Interwell Prediction Limits - Significant Results

Plant Greene County Data: Greene County AP Printed 1/3/2024, 8:25 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NB	G Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.1015	n/a	10/24/2023	0.231	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	11/1/2023	2.23	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	10/25/2023	0.625	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	10/25/2023	0.272	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	10/25/2023	0.465	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	11/1/2023	2.17	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	10/24/2023	0.877	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	10/25/2023	1.99	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	10/23/2023	2.21	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	10/23/2023	1.07	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	10/24/2023	0.143	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	10/25/2023	0.315	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	11/1/2023	0.115	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	10/24/2023	0.552	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	10/25/2023	0.93	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	10/25/2023	0.709	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	10/25/2023	1.13	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	47.3	n/a	10/24/2023	122	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	47.3	n/a	11/1/2023	105	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-11	47.3	n/a	10/25/2023	62.4	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	47.3	n/a	11/1/2023	152	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	47.3	n/a	10/24/2023	87.4	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	47.3	n/a	10/25/2023	121	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	47.3	n/a	10/23/2023	147	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	47.3	n/a	10/23/2023	77.5	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	47.3	n/a	10/24/2023	201	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	47.3	n/a	10/24/2023	64.4	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	47.3	n/a	10/24/2023	101	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	47.3	n/a	10/25/2023	147	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	47.3	n/a	10/25/2023	170	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	47.3	n/a	10/25/2023	92.7	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	47.3	n/a	10/25/2023	82	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.751	n/a	10/24/2023	39.5	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-10	5.751	n/a	11/1/2023	15.3	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-11	5.751	n/a	10/25/2023	19.1	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-13	5.751	n/a	10/25/2023	11.4	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-14	5.751	n/a	11/1/2023	10.1	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-15	5.751	n/a	10/24/2023	9.61	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-16	5.751	n/a	10/25/2023	8.33	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-17	5.751	n/a	10/23/2023	10	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-18	5.751	n/a	10/23/2023	23.7	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-2	5.751	n/a	10/24/2023	10.7	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-21	5.751	n/a	10/25/2023	6.93	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-25	5.751	n/a	11/1/2023	26.9	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-3	5.751	n/a	10/24/2023	21	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-31	5.751	n/a	10/30/2023	7.37	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-5	5.751	n/a	10/24/2023	10.7	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-6	5.751	n/a	10/25/2023	40.5	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-7	5.751	n/a	10/25/2023	170	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-8	5.751	n/a	10/25/2023	69.9	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-9	5.751	n/a	10/25/2023	62.3	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	11/1/2023	0.222	Yes	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	10/25/2023	0.165	Yes	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	11/1/2023	0.256	Yes	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	10/25/2023	0.276	Yes	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	10/23/2023	0.515	Yes	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	10/23/2023	0.164	Yes	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-3	0.159	n/a	10/24/2023	0.166	Yes	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	10/24/2023	0.208	Yes	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-10	6.49	3.78	11/1/2023	6.91	Yes	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-12	6.49	3.78	10/25/2023	6.77	Yes	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-14	6.49	3.78	11/1/2023	6.8	Yes	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-16	6.49	3.78	10/25/2023	6.53	Yes	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-17	6.49	3.78	10/23/2023	6.63	Yes	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-5	6.49	3.78	10/24/2023	6.61	Yes	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-7	6.49	3.78	10/25/2023	6.57	Yes	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	10/24/2023	714	Yes	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	11/1/2023	124	Yes	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2

# Appendix III Interwell Prediction Limits - Significant Results

Plant Greene County Data: Greene County AP Printed 1/3/2024, 8:25 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	10/25/2023	165	Yes	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	11/1/2023	135	Yes	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	10/24/2023	128	Yes	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	10/24/2023	606	Yes	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	10/24/2023	150	Yes	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	10/25/2023	203	Yes	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	10/25/2023	257	Yes	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-1	182	n/a	10/24/2023	1260	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	182	n/a	11/1/2023	452	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	182	n/a	10/25/2023	374	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	182	n/a	10/25/2023	189	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-13	182	n/a	10/25/2023	189	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	182	n/a	11/1/2023	653	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	182	n/a	10/24/2023	409	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	182	n/a	10/25/2023	449	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	182	n/a	10/23/2023	652	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	182	n/a	10/23/2023	376	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	182	n/a	10/24/2023	1020	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	182	n/a	10/25/2023	205	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	182	n/a	11/1/2023	251	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	182	n/a	10/24/2023	332	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	182	n/a	10/24/2023	462	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-6	182	n/a	10/25/2023	790	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	182	n/a	10/25/2023	1010	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	182	n/a	10/25/2023	702	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	182	n/a	10/25/2023	525	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2

# Appendix III Interwell Prediction Limits - All Results

Plant Greene County Data: Greene County AP Printed 1/3/2024, 8:25 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.1015	n/a	10/24/2023	0.231	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	11/1/2023	2.23	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	10/25/2023	0.625	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	10/25/2023	0.272	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	10/25/2023	0.465	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	11/1/2023	2.17	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	10/24/2023	0.877	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	10/25/2023	1.99	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	10/23/2023	2.21	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	10/23/2023	1.07	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	10/24/2023	0.143	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	10/25/2023	0.315	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	11/1/2023	0.115	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-3	0.1015	n/a	10/24/2023	0.0481J	No	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-31	0.1015	n/a	10/30/2023	0.1015ND	No	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-32	0.1015	n/a	10/30/2023	0.1015ND	No	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-33	0.1015	n/a	10/30/2023	0.1015ND	No	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	10/24/2023	0.552	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	10/25/2023	0.93	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1015	n/a	10/25/2023	0.0465J	No	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	10/25/2023	0.709	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	10/25/2023	1.13	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	47.3	n/a	10/24/2023	122	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	47.3	n/a	11/1/2023	105	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-11	47.3	n/a	10/25/2023	62.4	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	47.3	n/a	10/25/2023	33.1	No	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	47.3	n/a	10/25/2023	24.3	No	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	47.3	n/a	11/1/2023	152	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	47.3	n/a	10/24/2023	87.4	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	47.3	n/a	10/25/2023	121	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	47.3	n/a	10/23/2023	147	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	47.3	n/a	10/23/2023	77.5	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	47.3	n/a	10/24/2023	201	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-21	47.3	n/a	10/25/2023	30.9	No	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-25	47.3	n/a	11/1/2023	31.1	No	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	47.3	n/a	10/24/2023	64.4	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-31	47.3	n/a	10/30/2023	7.22	No	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-32	47.3	n/a	10/30/2023	10.5	No	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-33	47.3	n/a	10/30/2023	2.11	No	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	47.3	n/a	10/24/2023	101	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	47.3	n/a	10/25/2023	147	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	47.3	n/a	10/25/2023	170	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	47.3	n/a	10/25/2023	92.7	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	47.3	n/a	10/25/2023	82	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.751	n/a	10/24/2023	39.5	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-10	5.751	n/a	11/1/2023	15.3	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-11	5.751	n/a	10/25/2023	19.1	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-12	5.751	n/a	10/25/2023	4.69	No	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-13	5.751	n/a	10/25/2023	11.4	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-14	5.751	n/a	11/1/2023	10.1	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-15	5.751	n/a	10/24/2023	9.61	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-16	5.751	n/a	10/25/2023	8.33	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-17	5.751	n/a	10/23/2023	10	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-18	5.751	n/a	10/23/2023	23.7	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-2	5.751	n/a	10/24/2023	10.7	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-21	5.751	n/a	10/25/2023	6.93	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-25	5.751	n/a	11/1/2023	26.9	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-3	5.751	n/a	10/24/2023	21	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-31	5.751	n/a	10/30/2023	7.37	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-32	5.751	n/a	10/30/2023	3.92	No	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-33	5.751	n/a	10/30/2023	3.92	No	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-5	5.751	n/a	10/24/2023	10.7	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-6	5.751	n/a	10/25/2023	40.5	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-7	5.751	n/a	10/25/2023	170	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-8	5.751	n/a	10/25/2023	69.9	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-9	5.751	n/a	10/25/2023	62.3	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Fluoride (mg/L)	GC-AP-MW-1	0.159	n/a	10/24/2023	0.0372J	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	11/1/2023	0.222	Yes	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2

# Appendix III Interwell Prediction Limits - All Results

Plant Greene County Data: Greene County AP Printed 1/3/2024, 8:25 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GC-AP-MW-11	0.159	n/a	10/25/2023	0.141	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-12</b>	<b>0.159</b>	<b>n/a</b>	<b>10/25/2023</b>	<b>0.165</b>	<b>Yes</b>	<b>148</b>	<b>n/a</b>	<b>n/a</b>	<b>68.24</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008975</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride (mg/L)	GC-AP-MW-13	0.159	n/a	10/25/2023	0.149	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.159</b>	<b>n/a</b>	<b>11/1/2023</b>	<b>0.256</b>	<b>Yes</b>	<b>148</b>	<b>n/a</b>	<b>n/a</b>	<b>68.24</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008975</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride (mg/L)	GC-AP-MW-15	0.159	n/a	10/24/2023	0.144	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>0.159</b>	<b>n/a</b>	<b>10/25/2023</b>	<b>0.276</b>	<b>Yes</b>	<b>148</b>	<b>n/a</b>	<b>n/a</b>	<b>68.24</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008975</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>0.159</b>	<b>n/a</b>	<b>10/23/2023</b>	<b>0.515</b>	<b>Yes</b>	<b>148</b>	<b>n/a</b>	<b>n/a</b>	<b>68.24</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008975</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-18</b>	<b>0.159</b>	<b>n/a</b>	<b>10/23/2023</b>	<b>0.164</b>	<b>Yes</b>	<b>148</b>	<b>n/a</b>	<b>n/a</b>	<b>68.24</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008975</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride (mg/L)	GC-AP-MW-2	0.159	n/a	10/24/2023	0.06	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-21	0.159	n/a	10/25/2023	0.0861	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-25	0.159	n/a	11/1/2023	0.0861	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-3</b>	<b>0.159</b>	<b>n/a</b>	<b>10/24/2023</b>	<b>0.166</b>	<b>Yes</b>	<b>148</b>	<b>n/a</b>	<b>n/a</b>	<b>68.24</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008975</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride (mg/L)	GC-AP-MW-31	0.159	n/a	10/30/2023	0.0258J	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-32	0.159	n/a	10/30/2023	0.0401	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-33	0.159	n/a	10/30/2023	0.064	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>0.159</b>	<b>n/a</b>	<b>10/24/2023</b>	<b>0.208</b>	<b>Yes</b>	<b>148</b>	<b>n/a</b>	<b>n/a</b>	<b>68.24</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008975</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	10/25/2023	0.143	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-7	0.159	n/a	10/25/2023	0.0713	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-8	0.159	n/a	10/25/2023	0.105	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-9	0.159	n/a	10/25/2023	0.104	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-1	6.49	3.78	10/24/2023	5.66	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
<b>pH (SU)</b>	<b>GC-AP-MW-10</b>	<b>6.49</b>	<b>3.78</b>	<b>11/1/2023</b>	<b>6.91</b>	<b>Yes</b>	<b>144</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001886</b>	<b>NP Inter (normality) 1 of 2</b>
pH (SU)	GC-AP-MW-11	6.49	3.78	10/25/2023	6.36	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
<b>pH (SU)</b>	<b>GC-AP-MW-12</b>	<b>6.49</b>	<b>3.78</b>	<b>10/25/2023</b>	<b>6.77</b>	<b>Yes</b>	<b>144</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001886</b>	<b>NP Inter (normality) 1 of 2</b>
pH (SU)	GC-AP-MW-13	6.49	3.78	10/25/2023	6.47	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
<b>pH (SU)</b>	<b>GC-AP-MW-14</b>	<b>6.49</b>	<b>3.78</b>	<b>11/1/2023</b>	<b>6.8</b>	<b>Yes</b>	<b>144</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001886</b>	<b>NP Inter (normality) 1 of 2</b>
pH (SU)	GC-AP-MW-15	6.49	3.78	10/24/2023	6.29	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
<b>pH (SU)</b>	<b>GC-AP-MW-16</b>	<b>6.49</b>	<b>3.78</b>	<b>10/25/2023</b>	<b>6.53</b>	<b>Yes</b>	<b>144</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001886</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH (SU)</b>	<b>GC-AP-MW-17</b>	<b>6.49</b>	<b>3.78</b>	<b>10/23/2023</b>	<b>6.63</b>	<b>Yes</b>	<b>144</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001886</b>	<b>NP Inter (normality) 1 of 2</b>
pH (SU)	GC-AP-MW-18	6.49	3.78	10/23/2023	6.4	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-2	6.49	3.78	10/24/2023	6.01	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-21	6.49	3.78	10/25/2023	6.01	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-25	6.49	3.78	11/1/2023	6.01	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-3	6.49	3.78	10/24/2023	6.22	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-31	6.49	3.78	10/30/2023	5.72	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-32	6.49	3.78	10/30/2023	5.92	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-33	6.49	3.78	10/30/2023	4.63	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
<b>pH (SU)</b>	<b>GC-AP-MW-5</b>	<b>6.49</b>	<b>3.78</b>	<b>10/24/2023</b>	<b>6.61</b>	<b>Yes</b>	<b>144</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001886</b>	<b>NP Inter (normality) 1 of 2</b>
pH (SU)	GC-AP-MW-6	6.49	3.78	10/25/2023	6.41	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
<b>pH (SU)</b>	<b>GC-AP-MW-7</b>	<b>6.49</b>	<b>3.78</b>	<b>10/25/2023</b>	<b>6.57</b>	<b>Yes</b>	<b>144</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001886</b>	<b>NP Inter (normality) 1 of 2</b>
pH (SU)	GC-AP-MW-8	6.49	3.78	10/25/2023	6.47	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-9	6.49	3.78	10/25/2023	6.22	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-1</b>	<b>103</b>	<b>n/a</b>	<b>10/24/2023</b>	<b>714</b>	<b>Yes</b>	<b>154</b>	<b>n/a</b>	<b>n/a</b>	<b>19.48</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008291</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>103</b>	<b>n/a</b>	<b>11/1/2023</b>	<b>124</b>	<b>Yes</b>	<b>154</b>	<b>n/a</b>	<b>n/a</b>	<b>19.48</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008291</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-11</b>	<b>103</b>	<b>n/a</b>	<b>10/25/2023</b>	<b>165</b>	<b>Yes</b>	<b>154</b>	<b>n/a</b>	<b>n/a</b>	<b>19.48</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008291</b>	<b>NP Inter (normality) 1 of 2</b>
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	10/25/2023	74.3	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	10/25/2023	64.8	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>103</b>	<b>n/a</b>	<b>11/1/2023</b>	<b>135</b>	<b>Yes</b>	<b>154</b>	<b>n/a</b>	<b>n/a</b>	<b>19.48</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008291</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>103</b>	<b>n/a</b>	<b>10/24/2023</b>	<b>128</b>	<b>Yes</b>	<b>154</b>	<b>n/a</b>	<b>n/a</b>	<b>19.48</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008291</b>	<b>NP Inter (normality) 1 of 2</b>
Sulfate (mg/L)	GC-AP-MW-16	103	n/a	10/25/2023	35.7	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-17	103	n/a	10/23/2023	97.3	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-18	103	n/a	10/23/2023	17.7	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-2</b>	<b>103</b>	<b>n/a</b>	<b>10/24/2023</b>	<b>606</b>	<b>Yes</b>	<b>154</b>	<b>n/a</b>	<b>n/a</b>	<b>19.48</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008291</b>	<b>NP Inter (normality) 1 of 2</b>
Sulfate (mg/L)	GC-AP-MW-21	103	n/a	10/25/2023	72.4	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-25	103	n/a	11/1/2023	72.6	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-3	103	n/a	10/24/2023	18.7	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-31	103	n/a	10/30/2023	3.75	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-32	103	n/a	10/30/2023	3.36	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-33	103	n/a	10/30/2023	17.6	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>103</b>	<b>n/a</b>	<b>10/24/2023</b>	<b>150</b>	<b>Yes</b>	<b>154</b>	<b>n/a</b>	<b>n/a</b>	<b>19.48</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008291</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-6</b>	<b>103</b>	<b>n/a</b>	<b>10/25/2023</b>	<b>203</b>	<b>Yes</b>	<b>154</b>	<b>n/a</b>	<b>n/a</b>	<b>19.48</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008291</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-7</b>	<b>103</b>	<b>n/a</b>	<b>10/25/2023</b>	<b>257</b>	<b>Yes</b>	<b>154</b>	<b>n/a</b>	<b>n/a</b>	<b>19.48</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008291</b>	<b>NP Inter (normality) 1 of 2</b>
Sulfate (mg/L)	GC-AP-MW-8	103	n/a	10/25/2023	91.7	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality



# Appendix III Interwell Prediction Limits - All Results

Plant Greene County Data: Greene County AP Printed 1/3/2024, 8:25 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Obsrv.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	GC-AP-MW-13	182	n/a	10/25/2023	189	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	182	n/a	11/1/2023	653	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	182	n/a	10/24/2023	409	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	182	n/a	10/25/2023	449	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	182	n/a	10/23/2023	652	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	182	n/a	10/23/2023	376	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	182	n/a	10/24/2023	1020	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	182	n/a	10/25/2023	205	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	182	n/a	11/1/2023	251	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	182	n/a	10/24/2023	332	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-31	182	n/a	10/30/2023	52.7	No	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-32	182	n/a	10/30/2023	58.7	No	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-33	182	n/a	10/30/2023	58.7	No	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	182	n/a	10/24/2023	462	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-6	182	n/a	10/25/2023	790	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	182	n/a	10/25/2023	1010	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	182	n/a	10/25/2023	702	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	182	n/a	10/25/2023	525	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2

# Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 1/8/2024, 11:50 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-10	0.127	93	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.2	157	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.07148	179	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-16	0.1144	135	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.08225	119	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.05059	-115	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.004563	139	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.01914	105	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.1141	-141	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.1284	134	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-1	-13.53	-107	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-10	4.397	132	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-11	5.001	189	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	14.39	138	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-15	5.79	159	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	9.125	205	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	12.71	172	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	16.98	158	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.078	-163	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	5.625	191	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.1453	-135	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.1205	-142	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-30 (bg)	-0.1081	-129	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	7.218	193	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-6	4.027	97	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-8	2.549	95	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	10.11	115	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-14	-0.869	-131	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-16	-0.6992	-110	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-17	-1.049	-101	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.07075	-132	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-27 (bg)	0.06811	99	92	Yes	22	4.545	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-3	-0.4753	-97	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-31	0.141	111	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-1.014	-159	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-6	1.639	100	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-7	9.642	127	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	7.249	185	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.01972	137	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.009809	114	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-17	0.02393	102	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-3	0.01057	140	92	Yes	22	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-16	0.02875	143	111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-17	0.04606	144	111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (bg)	-0.07406	-194	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-24 (bg)	-0.05505	-148	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (bg)	-0.07473	-145	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (bg)	-0.0874	-119	-118	Yes	26	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (bg)	-0.3139	-187	-118	Yes	26	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (bg)	-0.08357	-164	-118	Yes	26	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-10	14.85	195	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-11	15.77	151	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-6.541	-133	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-2	50.43	139	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.013	-167	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	12.44	129	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.4803	112	92	Yes	22	22.73	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.4682	121	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	24.11	174	92	Yes	22	4.545	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-6	12.95	110	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-10	19.84	172	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	24.74	185	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-14	59.14	104	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	23.26	185	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	29.59	142	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	65.9	143	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-5.823	-144	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	17.8	126	92	Yes	22	0	n/a	n/a	0.01	NP

# Trend Tests - Prediction Limit Exceedances - Significant Results Page 2

Plant: Greene County    Client: Southern Company    Data: Greene County AP    Printed 1/8/2024, 11:50 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
TDS (mg/L)	GC-AP-MW-25	16.26	173	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-2.057	-121	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-1.199	-126	-92	Yes	22	63.64	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-3	-5.53	-102	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	27.93	167	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-6	22.53	112	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	72.01	184	92	Yes	22	0	n/a	n/a	0.01	NP

# Trend Tests - Prediction Limit Exceedances - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 1/8/2024, 11:50 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.009318	45	87	No	21	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>0.127</b>	<b>93</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	GC-AP-MW-11	0.00167	2	87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-12	0.006038	23	87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-13	0.02114	42	87	No	21	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.2</b>	<b>157</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>0.07148</b>	<b>179</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>0.1144</b>	<b>135</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>0.08225</b>	<b>119</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-18</b>	<b>-0.05059</b>	<b>-115</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	GC-AP-MW-2	0.002059	62	87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-21	0.01272	42	87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-23 (bg)	0	43	87	No	21	85.71	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-24 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GC-AP-MW-25</b>	<b>0.004563</b>	<b>139</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	GC-AP-MW-26 (bg)	0	10	87	No	21	95.24	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-27 (bg)	0	27	87	No	21	90.48	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-28 (bg)	0	10	87	No	21	95.24	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-29 (bg)	0	14	87	No	21	95.24	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-30 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>0.01914</b>	<b>105</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-6</b>	<b>-0.1141</b>	<b>-141</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	GC-AP-MW-8	-0.05971	-29	-87	No	21	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>0.1284</b>	<b>134</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-1</b>	<b>-13.53</b>	<b>-107</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>4.397</b>	<b>132</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-11</b>	<b>5.001</b>	<b>189</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>14.39</b>	<b>138</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>5.79</b>	<b>159</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>9.125</b>	<b>205</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>12.71</b>	<b>172</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GC-AP-MW-18	-0.121	-6	-92	No	22	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-2</b>	<b>16.98</b>	<b>158</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-2.078</b>	<b>-163</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-24 (bg)</b>	<b>5.625</b>	<b>191</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GC-AP-MW-26 (bg)	0.03942	3	92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (bg)	0.07088	75	92	No	22	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-28 (bg)</b>	<b>-0.1453</b>	<b>-135</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-29 (bg)</b>	<b>-0.1205</b>	<b>-142</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GC-AP-MW-3	-4.87	-89	-92	No	22	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-30 (bg)</b>	<b>-0.1081</b>	<b>-129</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>7.218</b>	<b>193</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-6</b>	<b>4.027</b>	<b>97</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GC-AP-MW-7	0.3952	4	92	No	22	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-8</b>	<b>2.549</b>	<b>95</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>10.11</b>	<b>115</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-1	0.2074	6	92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-10	-0.2762	-42	-92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-11	-0.1215	-14	-92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-13	-0.6023	-52	-92	No	22	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>-0.869</b>	<b>-131</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-15	-0.4345	-72	-92	No	22	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>-0.6992</b>	<b>-110</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>-1.049</b>	<b>-101</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-18	0.3234	76	92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-2	-0.5203	-91	-92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-21	-0.05307	-9	-92	No	22	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-0.07075</b>	<b>-132</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-24 (bg)	-0.04687	-24	-92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-25	-0.241	-17	-92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-26 (bg)	0.001905	3	92	No	22	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-27 (bg)</b>	<b>0.06811</b>	<b>99</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>4.545</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-28 (bg)	-0.05253	-78	-92	No	22	9.091	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-29 (bg)	-0.1764	-92	-92	No	22	9.091	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-3</b>	<b>-0.4753</b>	<b>-97</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-30 (bg)	0.2257	80	92	No	22	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-31</b>	<b>0.141</b>	<b>111</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>-1.014</b>	<b>-159</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

# Trend Tests - Prediction Limit Exceedances - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 1/8/2024, 11:50 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-6	1.639	100	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-7	9.642	127	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-8	3.302	56	92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	7.249	185	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-10	0.004345	43	92	No	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-12	0.001522	25	92	No	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.01972	137	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.009809	114	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-17	0.02393	102	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-18	0.002173	61	92	No	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-23 (bg)	-0.0005071	-16	-92	No	22	9.091	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-24 (bg)	0	29	92	No	22	63.64	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-26 (bg)	-0.007827	-66	-68	No	18	44.44	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-27 (bg)	0	37	87	No	21	90.48	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-28 (bg)	0	-14	-87	No	21	80.95	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-29 (bg)	0	-1	-92	No	22	90.91	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-3	0.01057	140	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-30 (bg)	0	21	92	No	22	95.45	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-5	0	5	92	No	22	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-10	0	4	105	No	24	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-12	0.000869	6	105	No	24	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-14	0.005124	23	111	No	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-16	0.02875	143	111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-17	0.04606	144	111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (bg)	-0.07406	-194	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-24 (bg)	-0.05505	-148	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-26 (bg)	-0.08064	-93	-111	No	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (bg)	-0.07473	-145	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (bg)	-0.0874	-119	-118	Yes	26	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (bg)	-0.3139	-187	-118	Yes	26	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (bg)	-0.08357	-164	-118	Yes	26	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-5	-0.008089	-50	-105	No	24	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-7	-0.006651	-50	-105	No	24	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-1	-1.867	-5	-92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-10	14.85	195	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-11	15.77	151	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	14.08	81	92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-6.541	-133	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-2	50.43	139	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.013	-167	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	12.44	129	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-26 (bg)	-0.6758	-37	-92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.4803	112	92	Yes	22	22.73	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.4682	121	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-29 (bg)	0	33	92	No	22	45.45	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-30 (bg)	0	20	92	No	22	68.18	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	24.11	174	92	Yes	22	4.545	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-6	12.95	110	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-7	-6.813	-28	-92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-1	-19.51	-34	-92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-10	19.84	172	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	24.74	185	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-12	6.759	49	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-13	20.38	81	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-14	59.14	104	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-15	9.068	90	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	23.26	185	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	29.59	142	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-18	-9.196	-78	-92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	65.9	143	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-21	1.006	9	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-5.823	-144	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	17.8	126	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-25	16.26	173	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-26 (bg)	-0.9865	-26	-92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-27 (bg)	0.4366	60	92	No	22	22.73	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-2.057	-121	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-1.199	-126	-92	Yes	22	63.64	n/a	n/a	0.01	NP

# Trend Tests - Prediction Limit Exceedances - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 1/8/2024, 11:50 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
TDS (mg/L)	GC-AP-MW-3	-5.53	-102	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-30 (bg)	0.2789	32	92	No	22	27.27	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	27.93	167	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-6	22.53	112	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-7	0	5	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-8	12.23	71	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	72.01	184	92	Yes	22	0	n/a	n/a	0.01	NP

# Upper Tolerance Limits Summary Table

Plant Greene County Data: Greene County AP Printed 1/8/2024, 2:22 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.00137	147	n/a	n/a	93.2	n/a	n/a	0.0005313	NP Inter
Arsenic (mg/L)	0.0044	147	n/a	n/a	80.95	n/a	n/a	0.0005313	NP Inter
Barium (mg/L)	0.347	147	n/a	n/a	0	n/a	n/a	0.0005313	NP Inter
Beryllium (mg/L)	0.00226	147	n/a	n/a	89.12	n/a	n/a	0.0005313	NP Inter
Cadmium (mg/L)	0.000912	147	n/a	n/a	70.75	n/a	n/a	0.0005313	NP Inter
Chromium (mg/L)	0.001015	147	n/a	n/a	74.83	n/a	n/a	0.0005313	NP Inter
Cobalt (mg/L)	0.0167	147	n/a	n/a	51.02	n/a	n/a	0.0005313	NP Inter
Combined Radium 226 + 228 (pCi/L)	3.88	147	n/a	n/a	2.721	n/a	n/a	0.0005313	NP Inter
Fluoride (mg/L)	0.159	148	n/a	n/a	68.24	n/a	n/a	0.0005048	NP Inter
Lead (mg/L)	0.000203	147	n/a	n/a	98.64	n/a	n/a	0.0005313	NP Inter
Lithium (mg/L)	0.02	147	n/a	n/a	100	n/a	n/a	0.0005313	NP Inter
Mercury (mg/L)	0.0005	147	n/a	n/a	100	n/a	n/a	0.0005313	NP Inter
Molybdenum (mg/L)	0.01015	147	n/a	n/a	97.28	n/a	n/a	0.0005313	NP Inter
Selenium (mg/L)	0.0072	147	n/a	n/a	86.39	n/a	n/a	0.0005313	NP Inter
Thallium (mg/L)	0.00039	147	n/a	n/a	98.64	n/a	n/a	0.0005313	NP Inter

<b>GREENE COUNTY ASH POND GWPS</b>			
<b>Analyte</b>	<b>Units</b>	<b>Background</b>	<b>GWPS</b>
Antimony	mg/L	0.00137	0.006
Arsenic	mg/L	0.0044	0.01
Barium	mg/L	0.347	2
Beryllium	mg/L	0.00226	0.004
Cadmium	mg/L	0.000912	0.005
Chromium	mg/L	0.001015	0.1
Cobalt	mg/L	0.0167	0.0167
Combined Radium-226/228	pCi/L	3.88	5
Fluoride	mg/L	0.159	4
Lead	mg/L	0.000203	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.01015	0.1
Selenium	mg/L	0.0072	0.05
Thallium	mg/L	0.00039	0.002

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2019.



# Confidence Interval - Significant Results

Plant Greene County Data: Greene County AP Printed 1/1/2024, 5:10 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GC-AP-MW-1	0.02425	0.01365	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.01281	0.01177	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-14	0.02938	0.02027	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-16	0.1016	0.06116	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-17	1.005	0.6901	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.05098	0.04777	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-5	0.4457	0.3695	0.01	Yes	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-1	0.2676	0.1969	0.0167	Yes	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-10	0.04119	0.01712	0.0167	Yes	8	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-11	0.04097	0.01851	0.0167	Yes	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-14	0.04113	0.03077	0.0167	Yes	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.01916	0.01779	0.0167	Yes	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-2	0.03671	0.02291	0.0167	Yes	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-9	0.03048	0.01852	0.0167	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-10	0.2675	0.1187	0.04	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-11	0.1601	0.07183	0.04	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-12	0.1449	0.09527	0.04	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.6269	0.1976	0.04	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	0.8412	0.5	0.04	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.6193	0.5402	0.04	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.6624	0.5738	0.04	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.762	0.562	0.04	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-18	0.3647	0.2868	0.04	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-21	0.1108	0.06108	0.04	Yes	8	0	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-5	0.1372	0.08334	0.04	Yes	8	0	None	No	0.01	Param.

# Confidence Interval - All Results

Plant Greene County    Data: Greene County AP    Printed 1/1/2024, 5:10 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GC-AP-MW-12	0.001015	0.000815	0.006	No	8	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-13	0.003242	0.001547	0.006	No	8	0	None	sqrt(x)	0.01	Param.
Antimony (mg/L)	GC-AP-MW-7	0.001015	0.00066	0.006	No	8	75	None	No	0.004	NP (NDs)
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-1</b>	<b>0.02425</b>	<b>0.01365</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>0.01281</b>	<b>0.01177</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	GC-AP-MW-11	0.005607	0.002043	0.01	No	8	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-12	0.0002966	0.0002006	0.01	No	8	25	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-13	0.0195	0.00176	0.01	No	8	0	None	No	0.004	NP (normality)
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.02938</b>	<b>0.02027</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	GC-AP-MW-15	0.0004415	0.0002462	0.01	No	8	25	Kaplan-Meier	No	0.01	Param.
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>0.1016</b>	<b>0.06116</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>1.005</b>	<b>0.6901</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-18</b>	<b>0.05098</b>	<b>0.04777</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	GC-AP-MW-2	0.008943	0.003127	0.01	No	8	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-21	0.0001894	0.0001154	0.01	No	8	37.5	Kaplan-Meier	x^3	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-25	0.0003468	0.0001707	0.01	No	8	25	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-3	0.01229	0.00901	0.01	No	8	0	None	x^2	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-31	0.000203	0.000111	0.01	No	8	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-32	0.000203	0.000142	0.01	No	8	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-33	0.0002004	0.00009347	0.01	No	8	50	Kaplan-Meier	No	0.01	Param.
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>0.4457</b>	<b>0.3695</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	GC-AP-MW-6	0.000261	0.0001312	0.01	No	8	37.5	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-7	0.00024	0.00005964	0.01	No	8	37.5	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-8	0.0002682	0.000162	0.01	No	8	25	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-9	0.01152	0.006499	0.01	No	8	0	None	x^2	0.01	Param.
Barium (mg/L)	GC-AP-MW-1	0.03184	0.02014	2	No	8	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GC-AP-MW-10	0.2823	0.216	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-11	0.0957	0.05575	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-12	0.03639	0.02409	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-13	0.1496	0.05163	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-14	0.1243	0.09258	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-15	0.04118	0.03457	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-16	0.1174	0.09283	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-17	0.3199	0.2491	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-18	0.08646	0.06912	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-2	0.03686	0.03074	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-21	0.1038	0.0527	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-25	0.1054	0.0708	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-3	0.1579	0.1259	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-31	0.03554	0.02753	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-32	0.0764	0.0127	2	No	8	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-33	0.1004	0.02784	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-5	0.1415	0.1327	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-6	0.07465	0.06145	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-7	0.08405	0.06848	2	No	8	0	None	x^3	0.01	Param.
Barium (mg/L)	GC-AP-MW-8	0.1372	0.1048	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-9	0.1711	0.1364	2	No	8	0	None	No	0.01	Param.
Cadmium (mg/L)	GC-AP-MW-1	0.000203	0.000089	0.005	No	8	62.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-11	0.000347	0.000203	0.005	No	8	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-13	0.000203	0.00008	0.005	No	8	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-15	0.00046	0.00012	0.005	No	8	25	None	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-16	0.000203	0.000069	0.005	No	8	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-2	0.000203	0.000077	0.005	No	8	62.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-21	0.0001213	0.00007056	0.005	No	8	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Cadmium (mg/L)	GC-AP-MW-25	0.000203	0.00007	0.005	No	8	37.5	None	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-6	0.00278	0.000076	0.005	No	8	37.5	None	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-7	0.000292	0.000203	0.005	No	8	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-8	0.000241	0.000203	0.005	No	8	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-9	0.000308	0.000203	0.005	No	8	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-1	0.001015	0.000287	0.1	No	8	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-10	0.001015	0.000217	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-11	0.001015	0.00023	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-12	0.001015	0.000224	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-13	0.001015	0.000232	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-14	0.001015	0.00023	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-15	0.001015	0.00027	0.1	No	8	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-16	0.001015	0.000267	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-17	0.001015	0.000211	0.1	No	8	37.5	None	No	0.004	NP (normality)

# Confidence Interval - All Results

Plant Greene County    Data: Greene County AP    Printed 1/1/2024, 5:10 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GC-AP-MW-18	0.001015	0.00023	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-2	0.00267	0.000256	0.1	No	8	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-21	0.001015	0.00022	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-25	0.001015	0.000214	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-3	0.001015	0.000286	0.1	No	8	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-31	0.001015	0.000268	0.1	No	8	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-32	0.001015	0.000301	0.1	No	8	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-33	0.0005839	0.0003485	0.1	No	8	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	GC-AP-MW-5	0.001015	0.00025	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-6	0.001015	0.000228	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-7	0.001015	0.00024	0.1	No	8	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-8	0.001015	0.000217	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-9	0.001015	0.000238	0.1	No	8	25	None	No	0.004	NP (normality)
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-1</b>	<b>0.2676</b>	<b>0.1969</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>0.04119</b>	<b>0.01712</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-11</b>	<b>0.04097</b>	<b>0.01851</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	GC-AP-MW-12	0.001007	0.0003159	0.0167	No	8	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-13	0.002887	0.0000557	0.0167	No	8	25	Kaplan-Meier	sqrt(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.04113</b>	<b>0.03077</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>0.01916</b>	<b>0.01779</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	GC-AP-MW-16	0.01561	0.01369	0.0167	No	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-17	0.01453	0.008055	0.0167	No	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-18	0.02051	0.01609	0.0167	No	8	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-2</b>	<b>0.03671</b>	<b>0.02291</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	GC-AP-MW-21	0.003824	0.000625	0.0167	No	8	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-25	0.01415	0.01004	0.0167	No	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-3	0.001654	0.0001807	0.0167	No	8	12.5	None	ln(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-31	0.0007063	0.0004175	0.0167	No	8	25	Kaplan-Meier	x^3	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-32	0.00105	0.000203	0.0167	No	8	75	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-33	0.00117	0.000203	0.0167	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-5	0.009228	0.006007	0.0167	No	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-6	0.003608	0.001957	0.0167	No	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-7	0.003725	0.001563	0.0167	No	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-8	0.009844	0.005228	0.0167	No	8	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>0.03048</b>	<b>0.01852</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-1	1.579	0.8261	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-10	1.819	0.9981	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-11	0.9444	0.3224	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-12	1.137	0.01197	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-13	0.5556	0.2901	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-14	1.554	0.8148	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-15	0.983	0.273	5	No	8	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-16	1.592	0.5121	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-17	2.381	1.246	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-18	1.6	0.8194	5	No	8	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-2	1.764	0.6844	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-21	0.8409	0.1217	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-25	1.165	0.2486	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-3	1.018	0.5362	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-31	0.8289	0.2726	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-32	3.18	0.467	5	No	8	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-33	2.293	0.8056	5	No	8	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-5	2.043	0.9871	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-6	1.069	0.3577	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-7	1.029	0.4849	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-8	1.5	0.628	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-9	1.832	1.151	5	No	8	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-1	0.15	0.08993	4	No	8	0	None	x^2	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-10	0.3051	0.2148	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-11	0.1669	0.08113	4	No	8	12.5	None	x^2	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-12	0.2141	0.1407	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-13	0.1254	0.05166	4	No	8	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-14	0.271	0.2253	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-15	0.1569	0.1214	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-16	0.2938	0.2513	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-17	0.594	0.5014	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-18	0.2069	0.1558	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-2	0.1487	0.06747	4	No	8	0	None	No	0.01	Param.

# Confidence Interval - All Results

Plant Greene County    Data: Greene County AP    Printed 1/1/2024, 5:10 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GC-AP-MW-21	0.1693	0.06144	4	No	8	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-25	0.1003	0.05218	4	No	8	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-3	0.1964	0.1169	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-31	0.0671	0.0258	4	No	8	75	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-32	0.0401	0.04	4	No	8	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-33	0.064	0.04	4	No	8	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-5	0.2838	0.1925	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-6	0.2132	0.1506	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-7	0.1103	0.07574	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-8	0.179	0.0981	4	No	8	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-9	0.1793	0.09442	4	No	8	12.5	None	x^2	0.01	Param.
Lead (mg/L)	GC-AP-MW-16	0.0001269	0.00007772	0.015	No	8	25	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	GC-AP-MW-2	0.0007465	0.0002878	0.015	No	8	25	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	GC-AP-MW-25	0.000203	0.0000884	0.015	No	8	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-3	0.000203	0.000097	0.015	No	8	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-31	0.000203	0.00015	0.015	No	8	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-32	0.000203	0.000121	0.015	No	8	75	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-33	0.000203	0.000115	0.015	No	8	50	None	No	0.004	NP (normality)
Lead (mg/L)	GC-AP-MW-5	0.000203	0.000118	0.015	No	8	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-7	0.00036	0.000203	0.015	No	8	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-9	0.000203	0.0000784	0.015	No	8	75	None	No	0.004	NP (NDs)
Lithium (mg/L)	GC-AP-MW-1	0.02	0.0081	0.04	No	8	87.5	None	No	0.004	NP (NDs)
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>0.2675</b>	<b>0.1187</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-11</b>	<b>0.1601</b>	<b>0.07183</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-12</b>	<b>0.1449</b>	<b>0.09527</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-13</b>	<b>0.6269</b>	<b>0.1976</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.8412</b>	<b>0.5</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>0.6193</b>	<b>0.5402</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>0.6624</b>	<b>0.5738</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>0.762</b>	<b>0.562</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-18</b>	<b>0.3647</b>	<b>0.2868</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-21</b>	<b>0.1108</b>	<b>0.06108</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>0.1372</b>	<b>0.08334</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	GC-AP-MW-6	0.0518	0.00951	0.04	No	8	50	None	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-8	0.04159	0.007572	0.04	No	8	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-9	0.05704	0.01066	0.04	No	8	0	None	No	0.01	Param.
Mercury (mg/L)	GC-AP-MW-11	0.0005	0.000321	0.002	No	8	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-1	0.01015	0.000117	0.1	No	8	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-10	0.01165	0.005778	0.1	No	8	12.5	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-11	0.01726	0.007183	0.1	No	8	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-12	0.0839	0.04491	0.1	No	8	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-13	0.07838	0.01203	0.1	No	8	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-14	0.02254	0.01161	0.1	No	8	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-16	0.01015	0.000113	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-17	0.06394	0.04391	0.1	No	8	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-18	0.01015	0.000305	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-2	0.01015	0.0000804	0.1	No	8	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-21	0.0562	0.00666	0.1	No	8	25	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-25	0.01015	0.0000843	0.1	No	8	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-31	0.01015	0.0000741	0.1	No	8	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-5	0.01015	0.00255	0.1	No	8	25	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-6	0.01015	0.00142	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-7	0.01015	0.00012	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-8	0.01015	0.0000812	0.1	No	8	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-1	0.001779	0.0006601	0.05	No	8	25	Kaplan-Meier	ln(x)	0.01	Param.
Selenium (mg/L)	GC-AP-MW-12	0.00281	0.00081	0.05	No	8	50	None	No	0.004	NP (normality)
Selenium (mg/L)	GC-AP-MW-13	0.02753	0.003986	0.05	No	8	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	GC-AP-MW-2	0.001015	0.00054	0.05	No	8	75	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-3	0.001015	0.000538	0.05	No	8	25	None	No	0.004	NP (normality)
Selenium (mg/L)	GC-AP-MW-32	0.001015	0.00059	0.05	No	8	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-33	0.001015	0.000704	0.05	No	8	62.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-1	0.000164	0.000105	0.002	No	8	25	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-11	0.000203	0.00007	0.002	No	8	37.5	None	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-13	0.001799	0.0002466	0.002	No	8	0	None	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-15	0.000203	0.000084	0.002	No	8	50	None	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-16	0.0003598	0.0003202	0.002	No	8	0	None	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-2	0.0001532	0.0001032	0.002	No	8	25	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-21	0.000203	0.000106	0.002	No	8	62.5	Kaplan-Meier	No	0.004	NP (NDs)

# Appendix IV Trend Tests - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 1/8/2024, 11:42 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GC-AP-MW-14	0.0009141	70	66	Yes	21	0	n/a	n/a	0.05	NP
Arsenic (mg/L)	GC-AP-MW-17	0.1004	150	66	Yes	21	0	n/a	n/a	0.05	NP
Arsenic (mg/L)	GC-AP-MW-18	-0.009656	-141	-66	Yes	21	0	n/a	n/a	0.05	NP
Arsenic (mg/L)	GC-AP-MW-26 (bg)	-0.0002028	-142	-66	Yes	21	42.86	n/a	n/a	0.05	NP
Arsenic (mg/L)	GC-AP-MW-29 (bg)	-0.00003389	-97	-66	Yes	21	66.67	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-1	0.02846	164	66	Yes	21	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-10	0.001025	91	66	Yes	21	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-11	-0.003295	-86	-66	Yes	21	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-14	0.004901	132	66	Yes	21	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-15	0.0005352	100	66	Yes	21	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-2	0.003584	135	66	Yes	21	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-26 (bg)	-0.00164	-122	-66	Yes	21	14.29	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-27 (bg)	-0.00001279	-125	-66	Yes	21	57.14	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-29 (bg)	-0.001728	-143	-66	Yes	21	9.524	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-30 (bg)	-0.00001865	-101	-66	Yes	21	66.67	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-9	0.002348	162	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-10	0.007871	89	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-11	0.006879	70	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-12	-0.02287	-84	-66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-15	-0.02303	-105	-66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-18	-0.03743	-156	-66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-21	-0.02281	-110	-66	Yes	21	0	n/a	n/a	0.05	NP

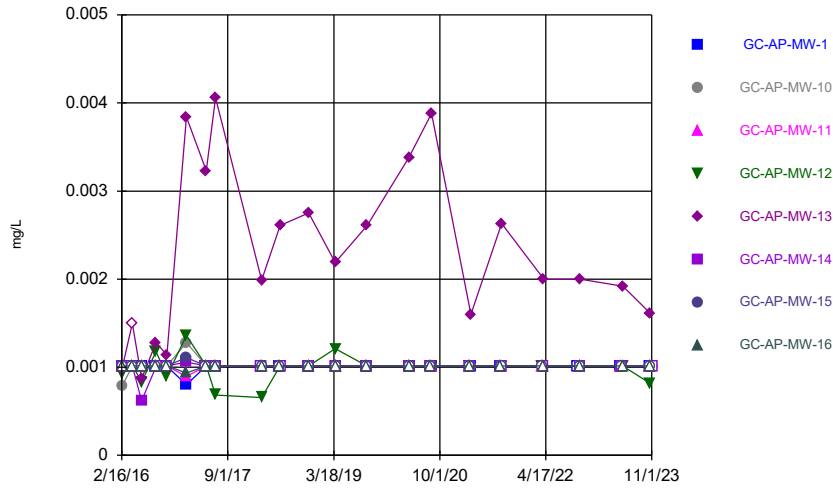
# Appendix IV Trend Tests - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 1/8/2024, 11:42 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GC-AP-MW-1	0.0001444	5	66	No	21	0	n/a	n/a	0.05	NP
Arsenic (mg/L)	GC-AP-MW-10	-0.0001268	-46	-66	No	21	0	n/a	n/a	0.05	NP
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.0009141</b>	<b>70</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
Arsenic (mg/L)	GC-AP-MW-16	-0.001238	-25	-66	No	21	0	n/a	n/a	0.05	NP
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>0.1004</b>	<b>150</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-18</b>	<b>-0.009656</b>	<b>-141</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
Arsenic (mg/L)	GC-AP-MW-23 (bg)	0	-27	-66	No	21	90.48	n/a	n/a	0.05	NP
Arsenic (mg/L)	GC-AP-MW-24 (bg)	0	51	66	No	21	71.43	n/a	n/a	0.05	NP
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-26 (bg)</b>	<b>-0.0002028</b>	<b>-142</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>42.86</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
Arsenic (mg/L)	GC-AP-MW-27 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Arsenic (mg/L)	GC-AP-MW-28 (bg)	0	-12	-66	No	21	95.24	n/a	n/a	0.05	NP
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-29 (bg)</b>	<b>-0.00003389</b>	<b>-97</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>66.67</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
Arsenic (mg/L)	GC-AP-MW-30 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Arsenic (mg/L)	GC-AP-MW-5	0.006298	51	66	No	21	0	n/a	n/a	0.05	NP
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-1</b>	<b>0.02846</b>	<b>164</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>0.001025</b>	<b>91</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-11</b>	<b>-0.003295</b>	<b>-86</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.004901</b>	<b>132</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>0.0005352</b>	<b>100</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-2</b>	<b>0.003584</b>	<b>135</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
Cobalt (mg/L)	GC-AP-MW-23 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-24 (bg)	0	56	66	No	21	66.67	n/a	n/a	0.05	NP
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-26 (bg)</b>	<b>-0.00164</b>	<b>-122</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>14.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-27 (bg)</b>	<b>-0.00001279</b>	<b>-125</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>57.14</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
Cobalt (mg/L)	GC-AP-MW-28 (bg)	-0.0002385	-56	-66	No	21	42.86	n/a	n/a	0.05	NP
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-29 (bg)</b>	<b>-0.001728</b>	<b>-143</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>9.524</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-30 (bg)</b>	<b>-0.00001865</b>	<b>-101</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>66.67</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>0.002348</b>	<b>162</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>0.007871</b>	<b>89</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-11</b>	<b>0.006879</b>	<b>70</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-12</b>	<b>-0.02287</b>	<b>-84</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
Lithium (mg/L)	GC-AP-MW-13	0.008805	19	66	No	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-14	0.01387	24	66	No	21	0	n/a	n/a	0.05	NP
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>-0.02303</b>	<b>-105</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
Lithium (mg/L)	GC-AP-MW-16	0.006227	44	66	No	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-17	0.002584	10	66	No	21	0	n/a	n/a	0.05	NP
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-18</b>	<b>-0.03743</b>	<b>-156</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-21</b>	<b>-0.02281</b>	<b>-110</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
Lithium (mg/L)	GC-AP-MW-23 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-24 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-26 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-27 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-28 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-29 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-30 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-5	0.003057	51	66	No	21	0	n/a	n/a	0.05	NP

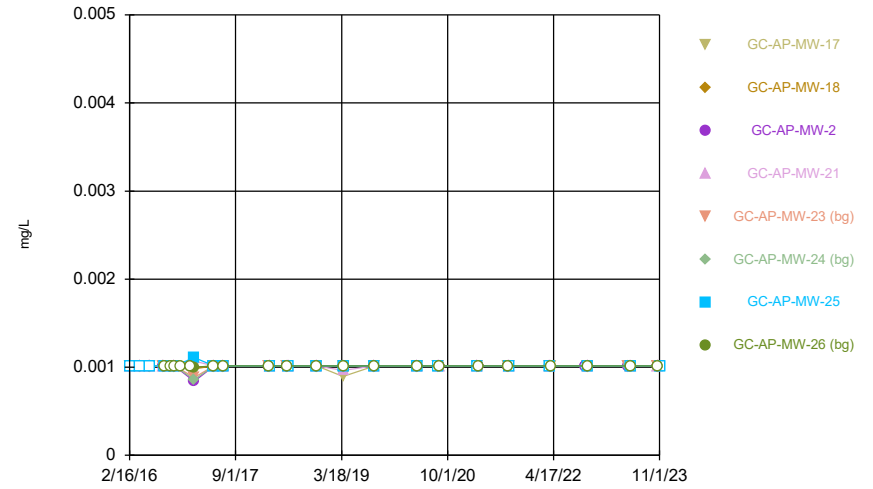
FIGURE A.

### Time Series



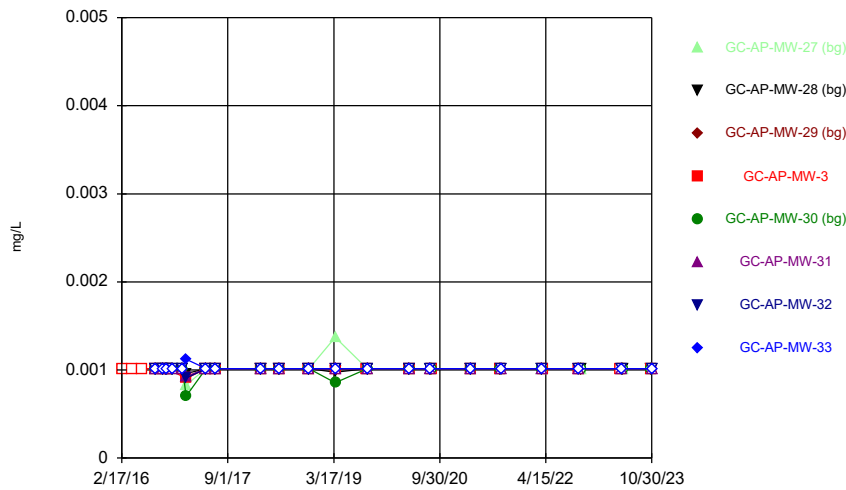
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Plant Greene County Data: Greene County AP

### Time Series



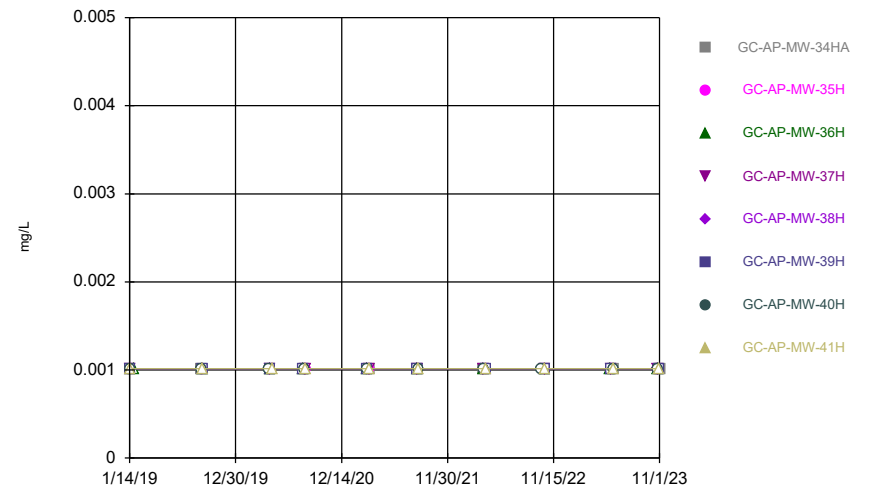
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### Time Series



Constituent: Antimony Analysis Run 1/1/2024 4:40 PM View: Time Series & Box Plot  
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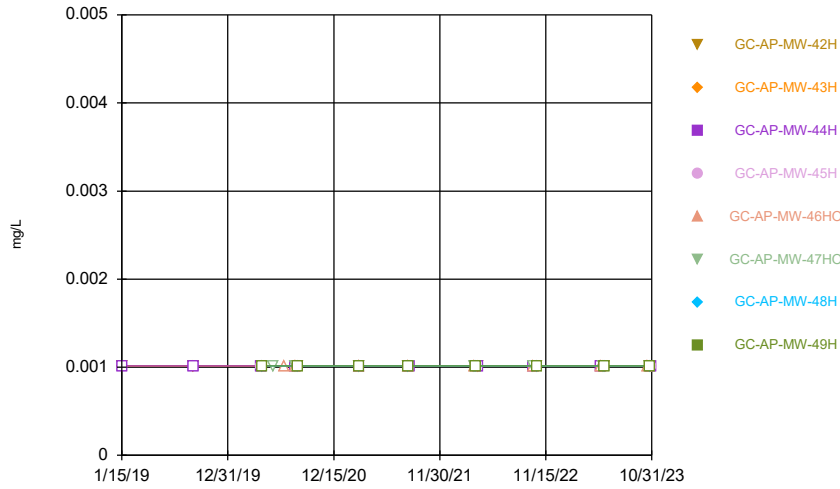
### Time Series



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Plant Greene County Data: Greene County AP

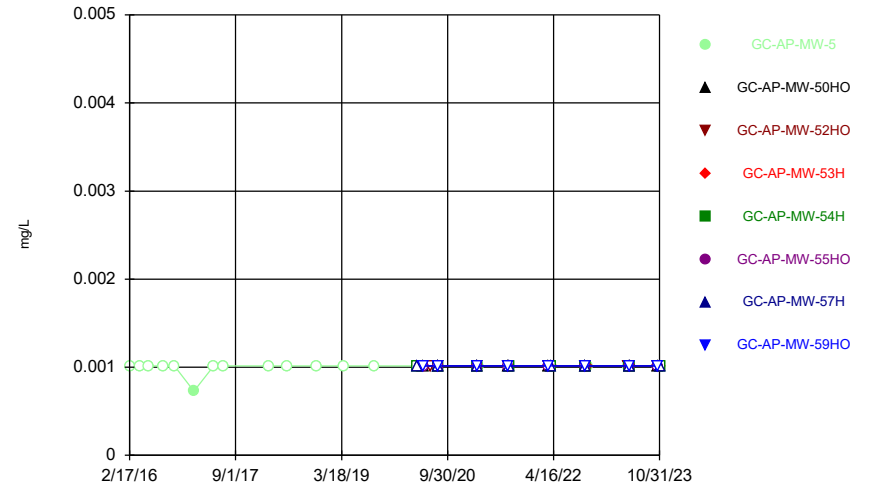


Time Series



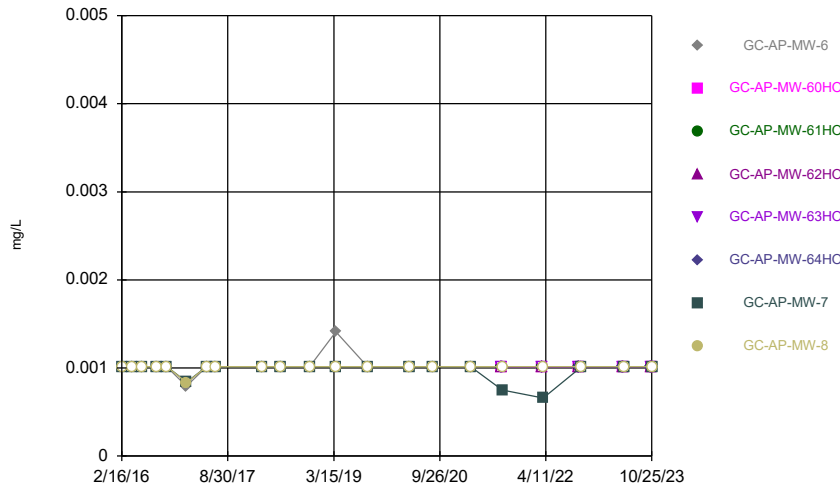
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 Plant Greene County Data: Greene County AP

Time Series



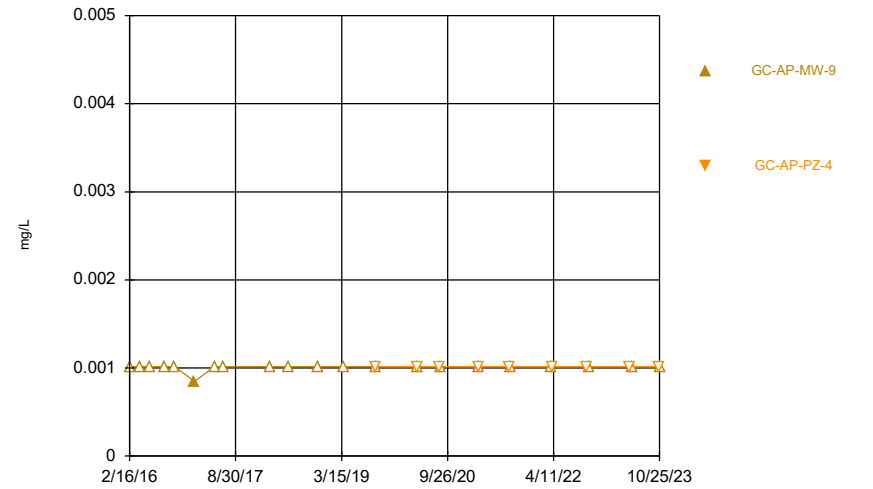
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Time Series



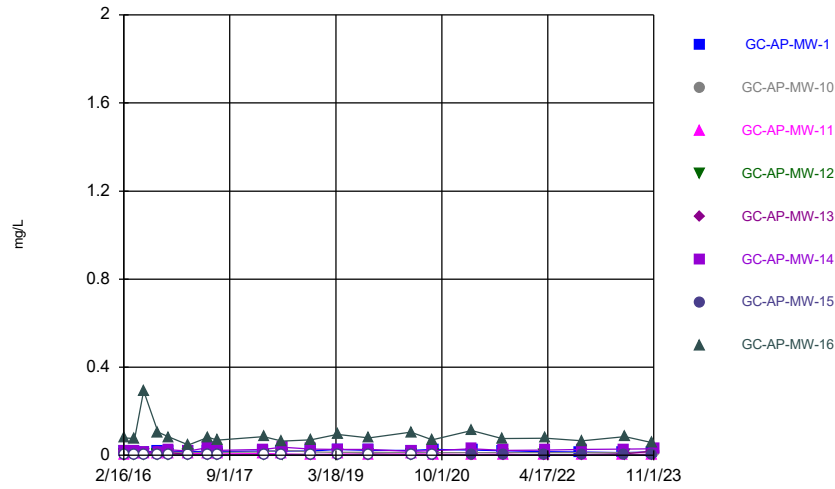
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 Plant Greene County Data: Greene County AP

Time Series



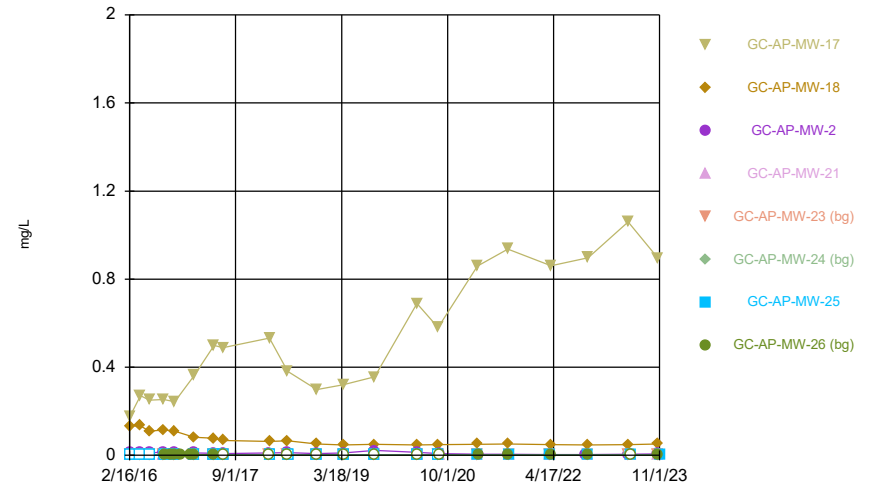
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 Plant Greene County Data: Greene County AP

### Time Series



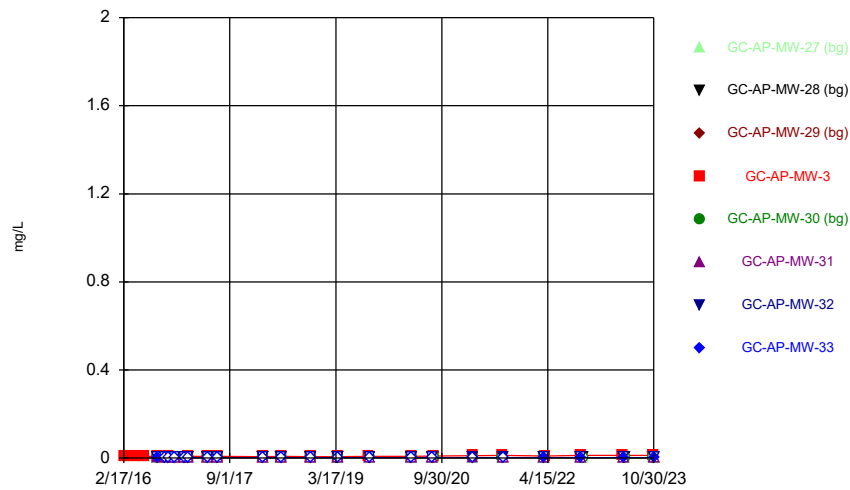
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Plant Greene County Data: Greene County AP

### Time Series



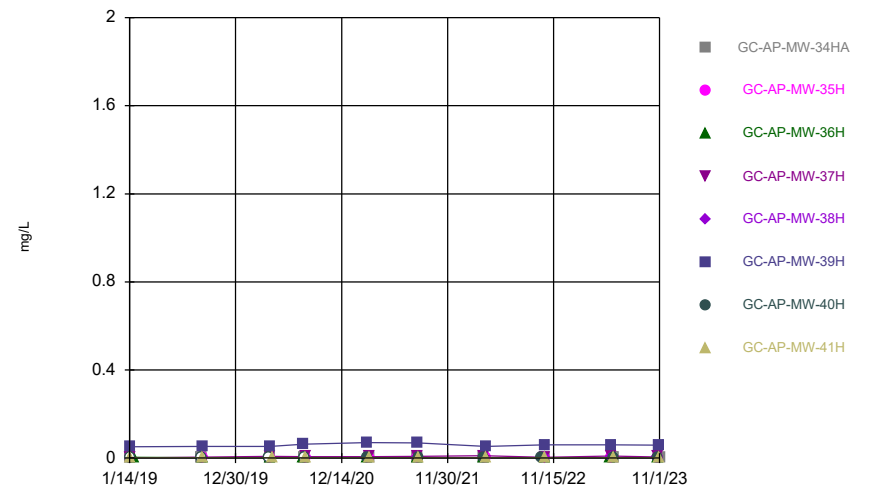
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Plant Greene County Data: Greene County AP

### Time Series



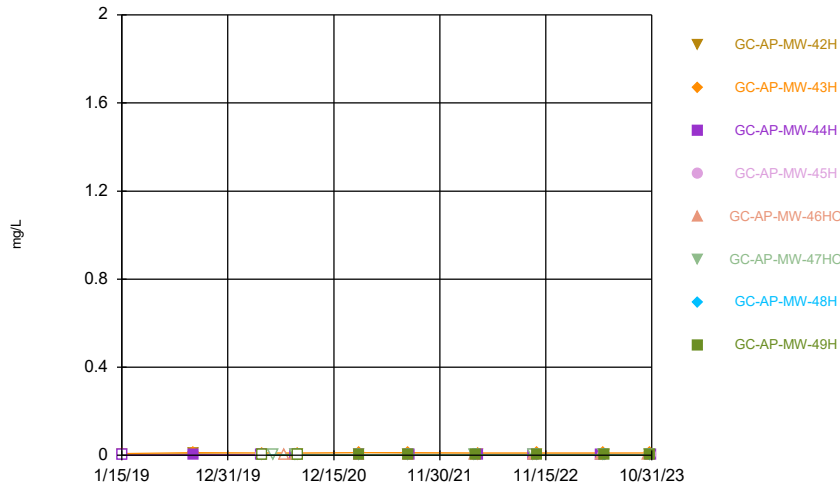
Constituent: Arsenic Analysis Run 1/1/2024 4:40 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



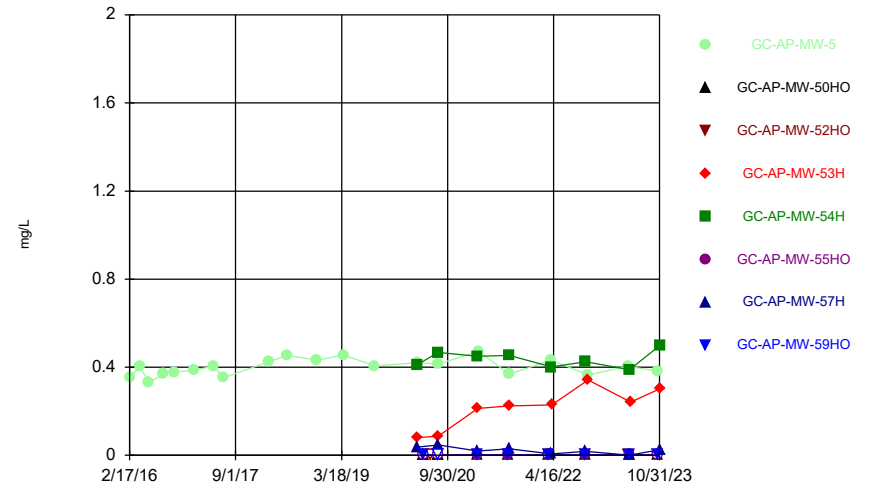
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Plant Greene County Data: Greene County AP

Time Series



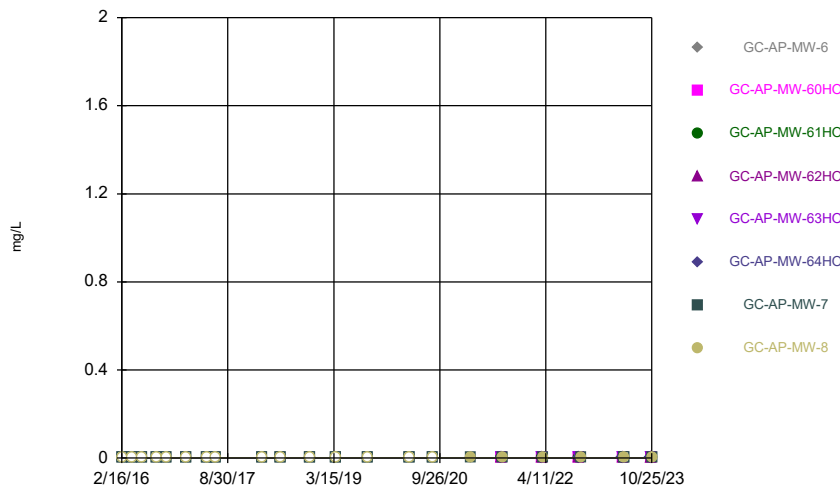
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Plant Greene County Data: Greene County AP

Time Series



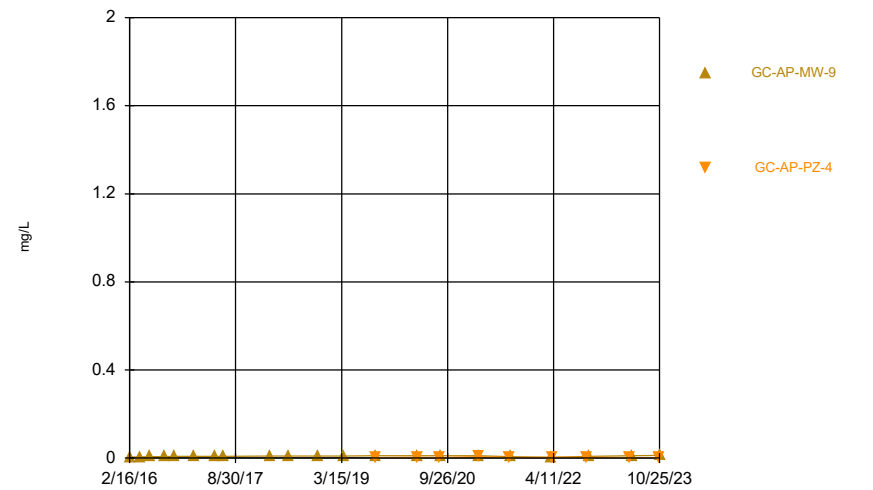
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Plant Greene County Data: Greene County AP

Time Series



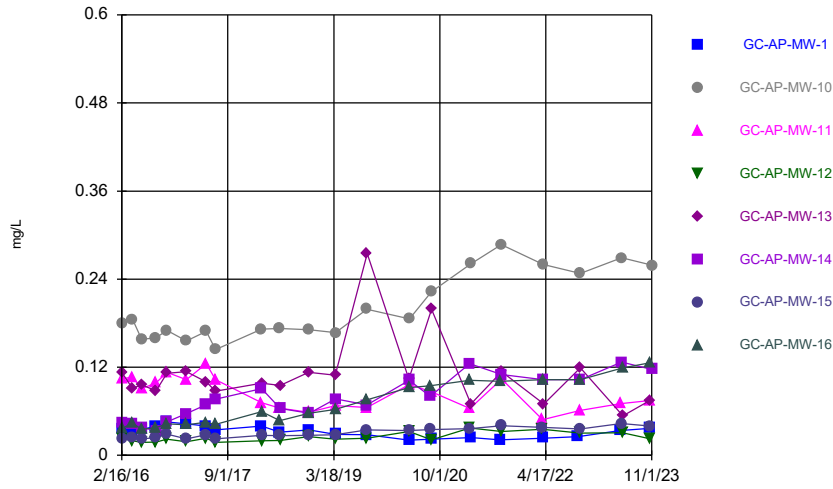
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Time Series



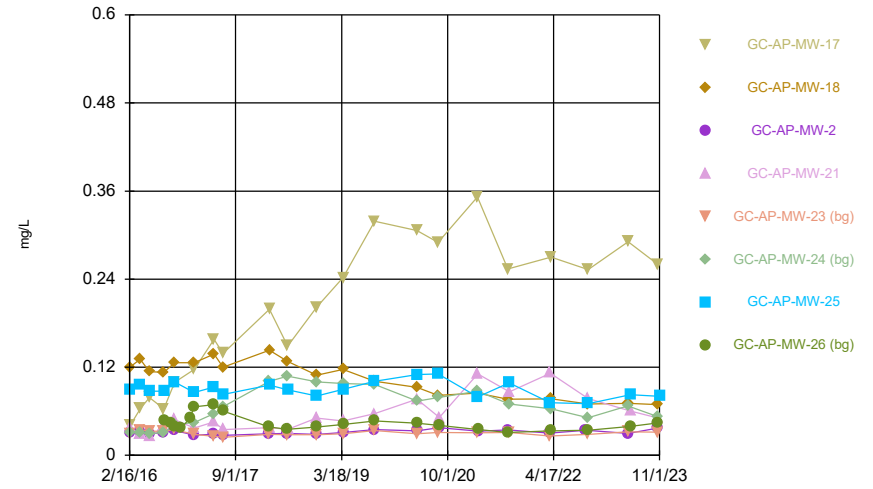
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### Time Series



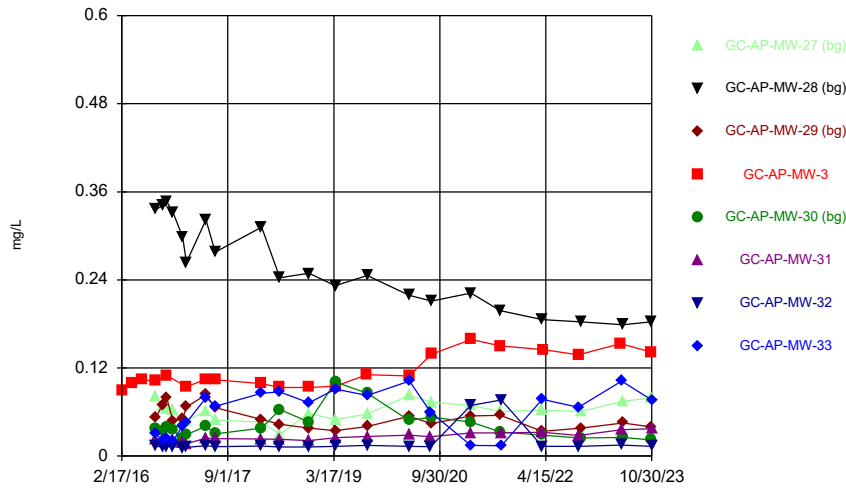
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### Time Series



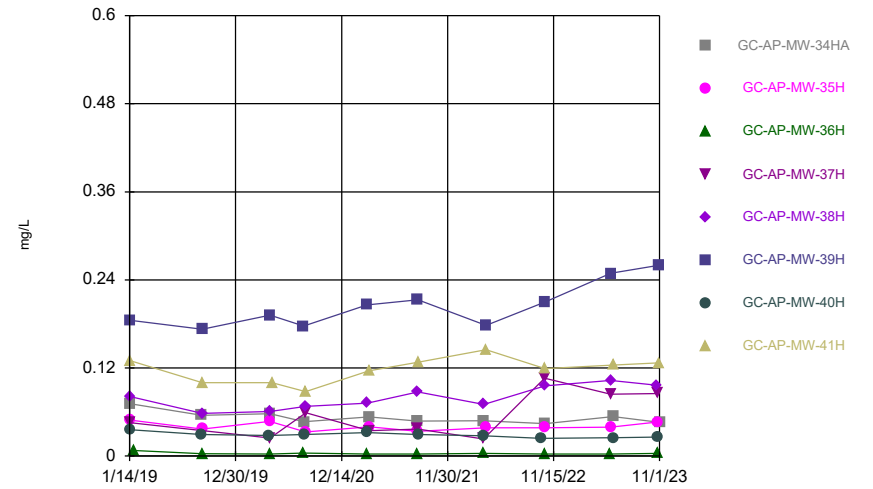
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### Time Series



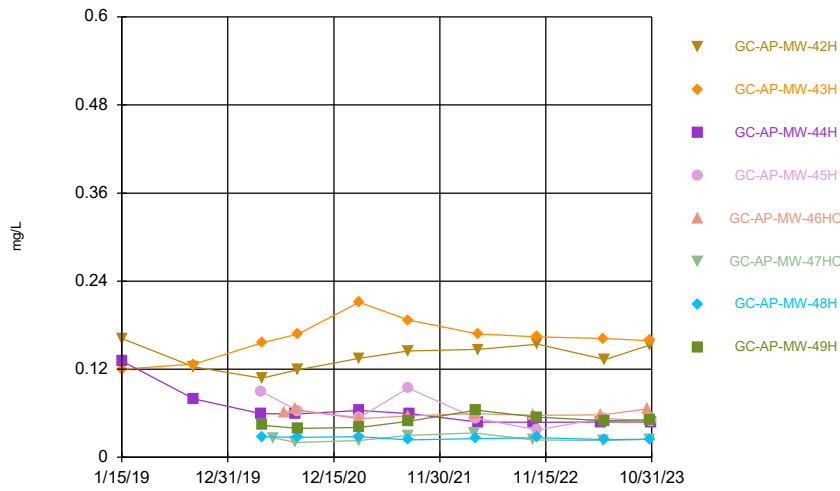
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### Time Series



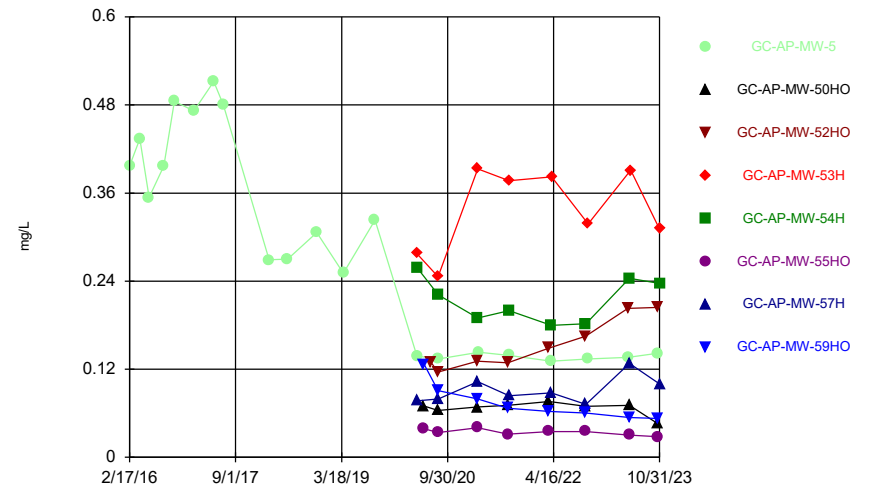
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Plant Greene County Data: Greene County AP

### Time Series



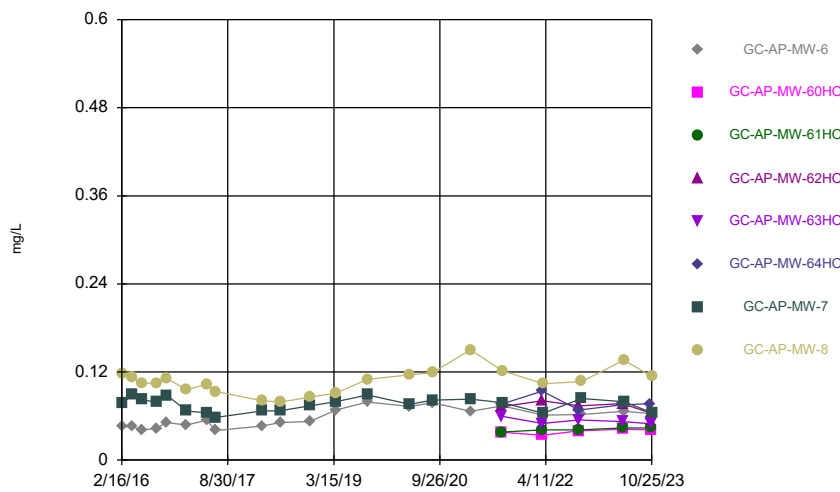
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### Time Series



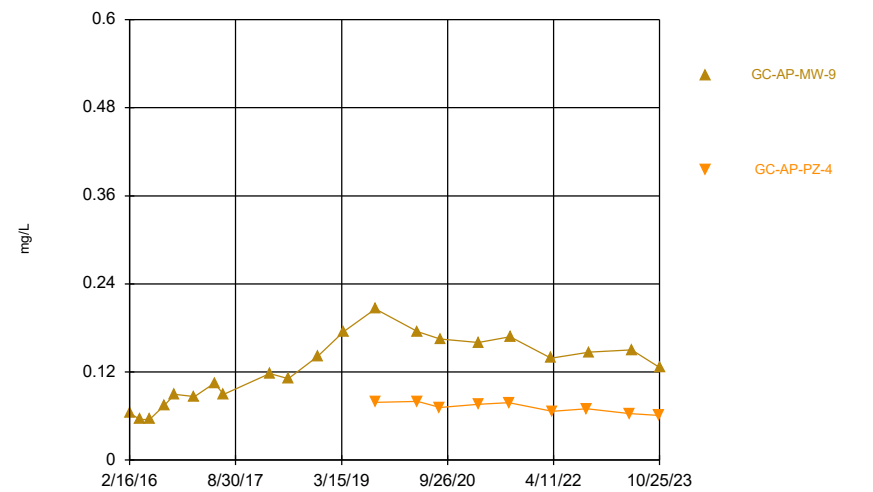
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Plant Greene County Data: Greene County AP

### Time Series



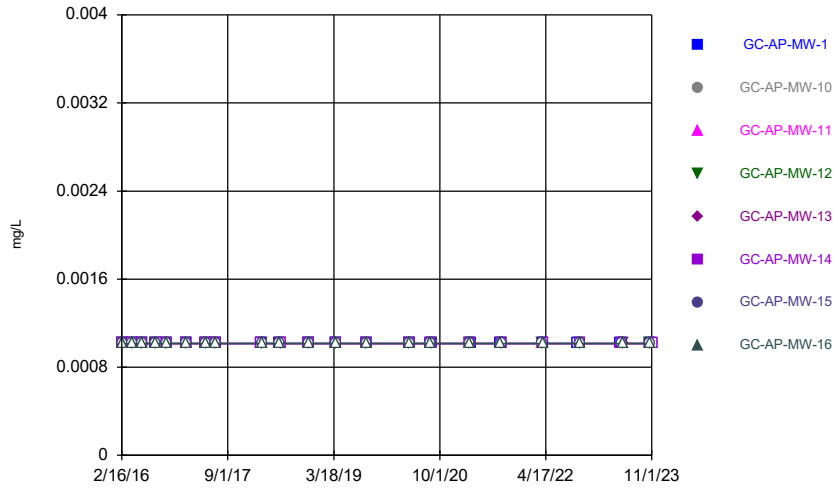
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### Time Series



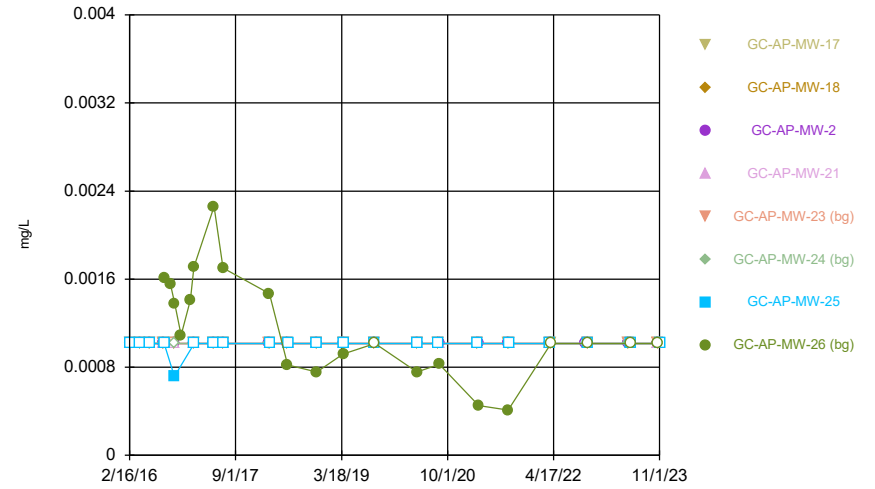
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Plant Greene County Data: Greene County AP

Time Series



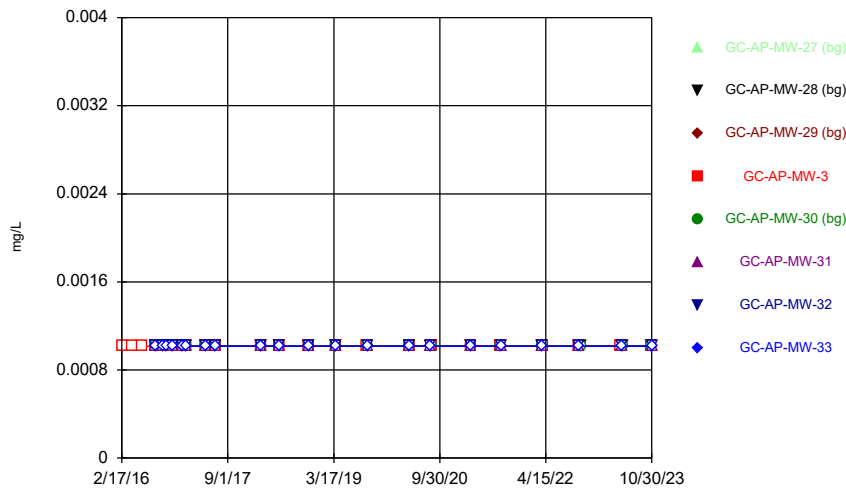
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Time Series



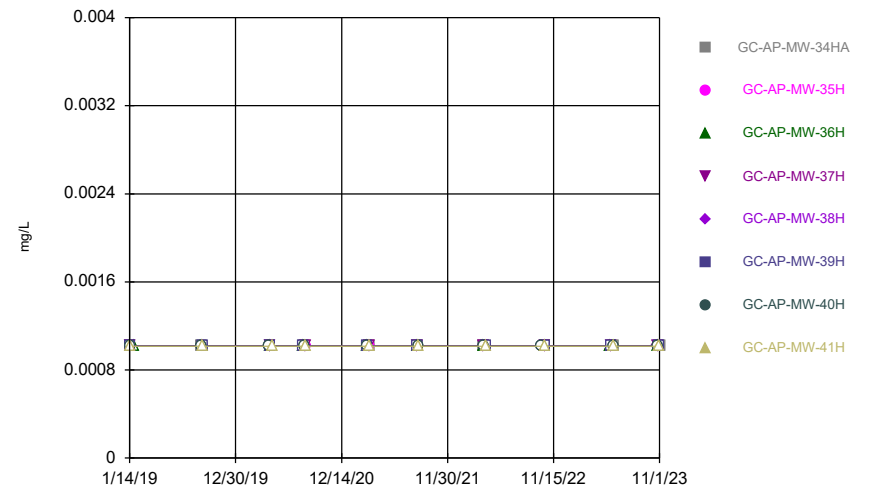
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Time Series



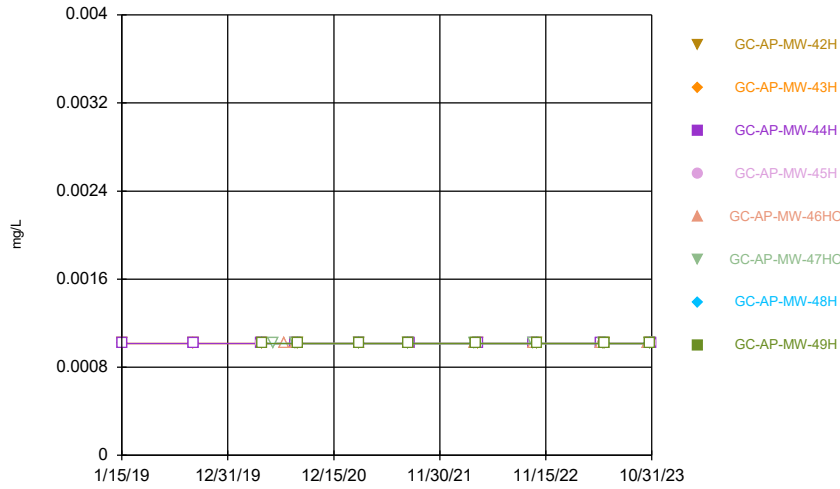
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Time Series

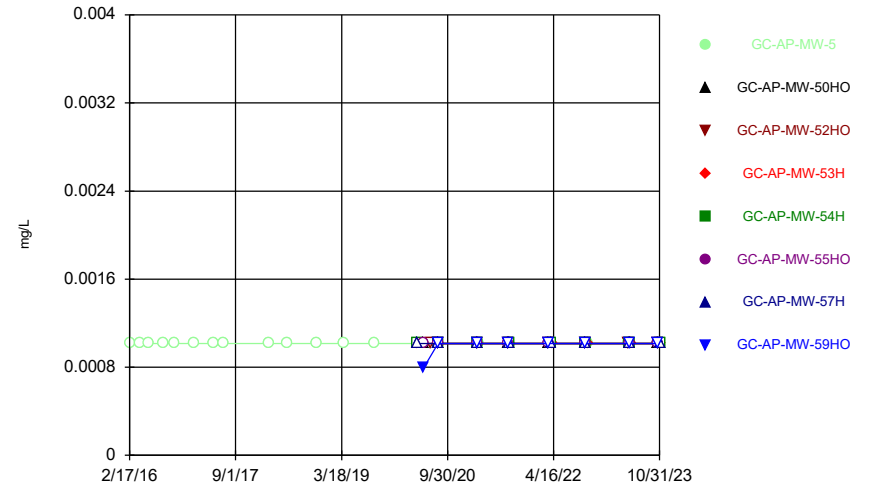


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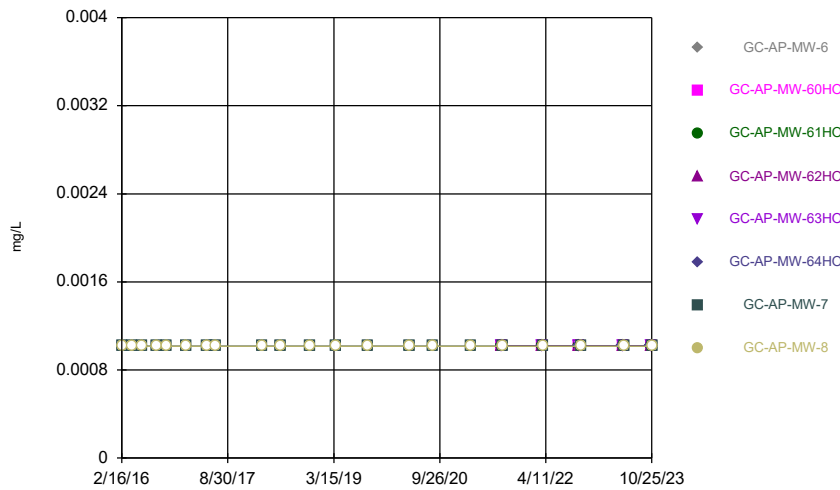
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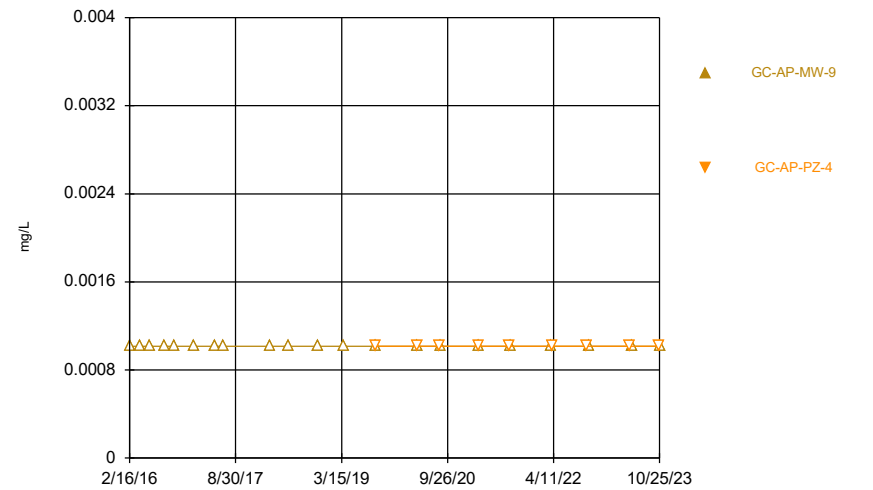
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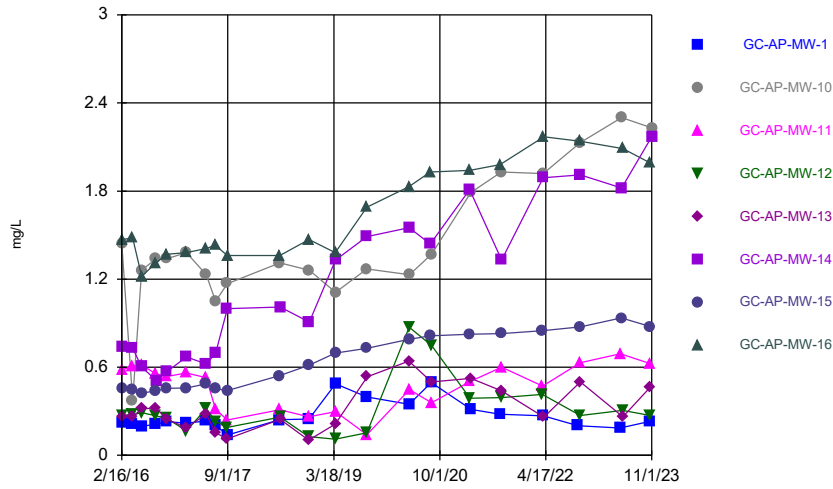
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Time Series



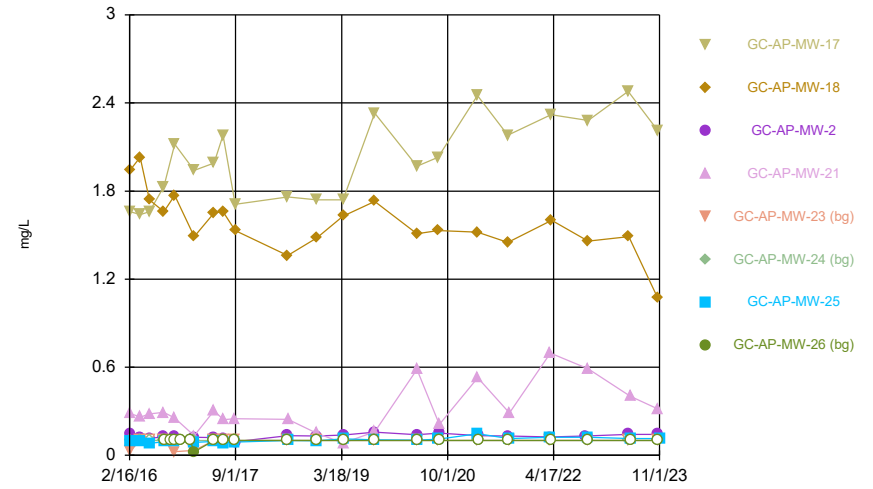
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Plant Greene County Data: Greene County AP

Hollow symbols indicate censored values.

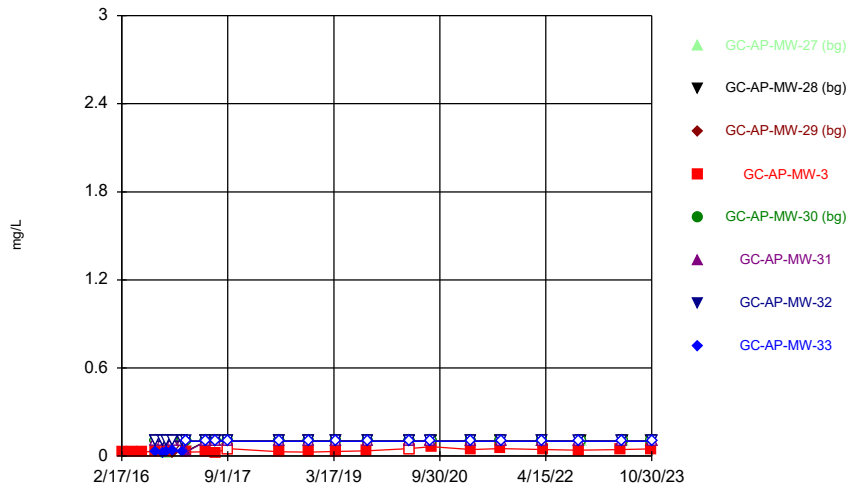
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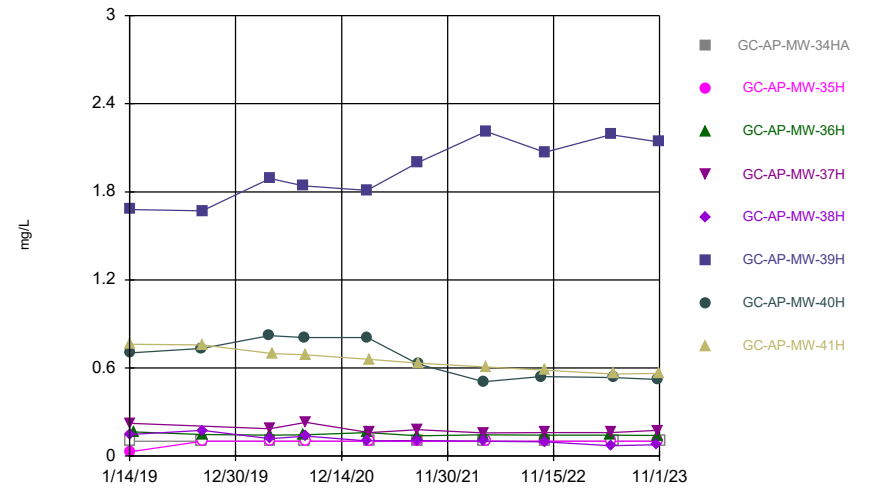
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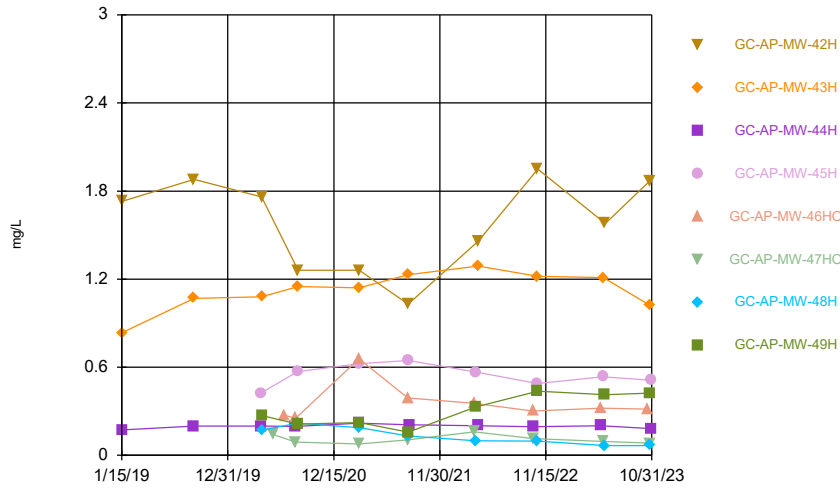
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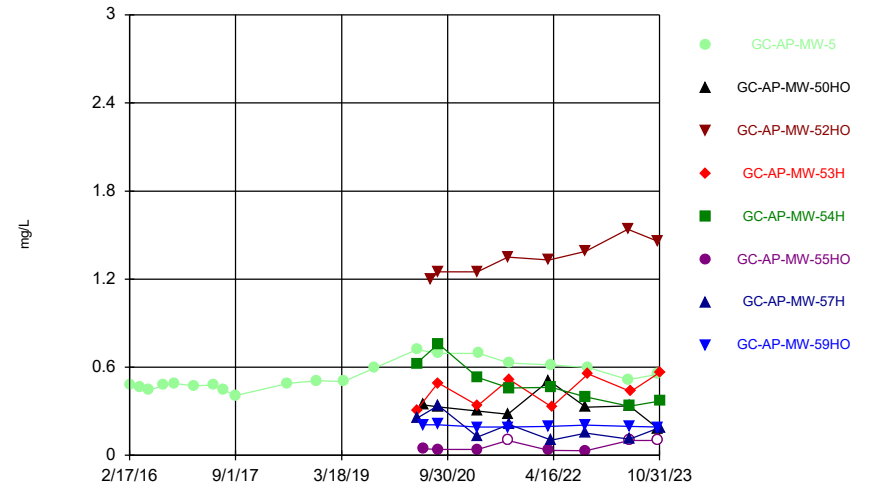
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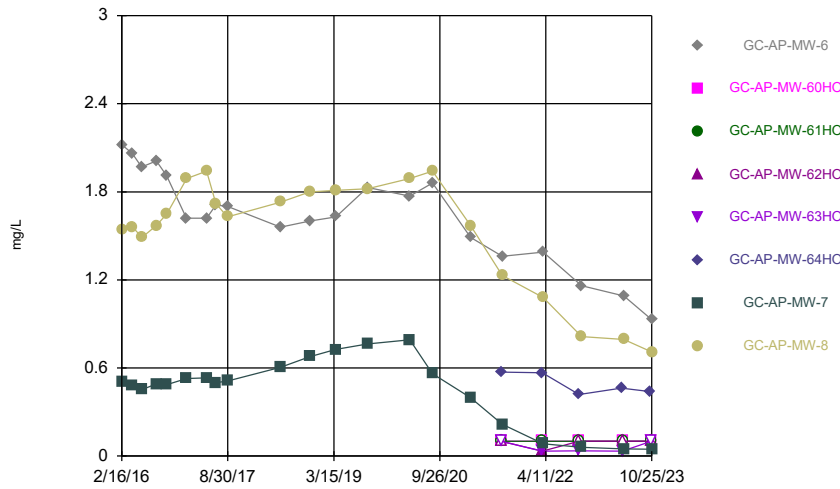
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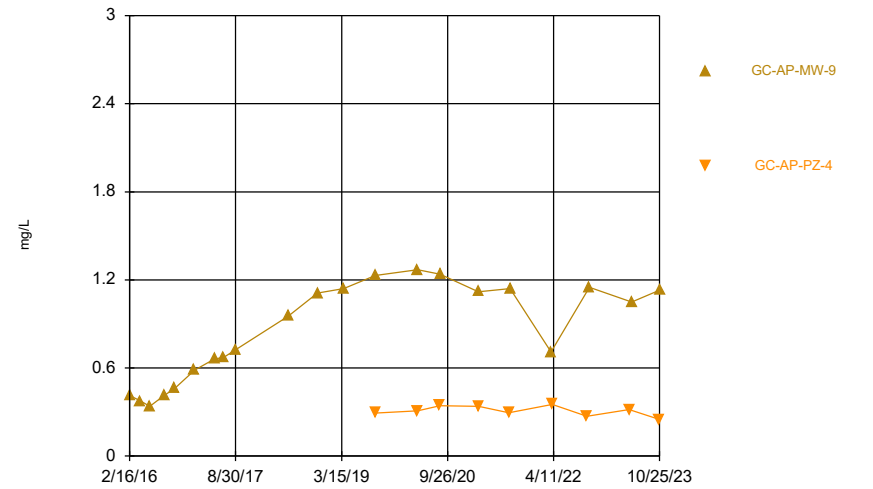
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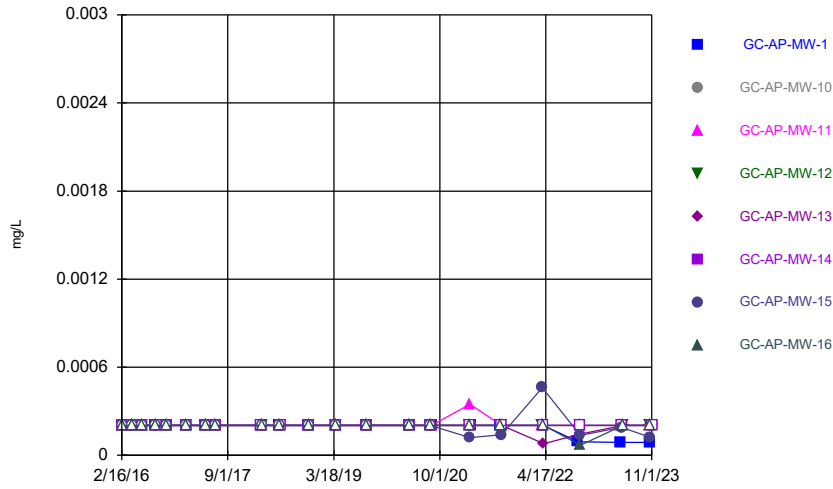
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Time Series



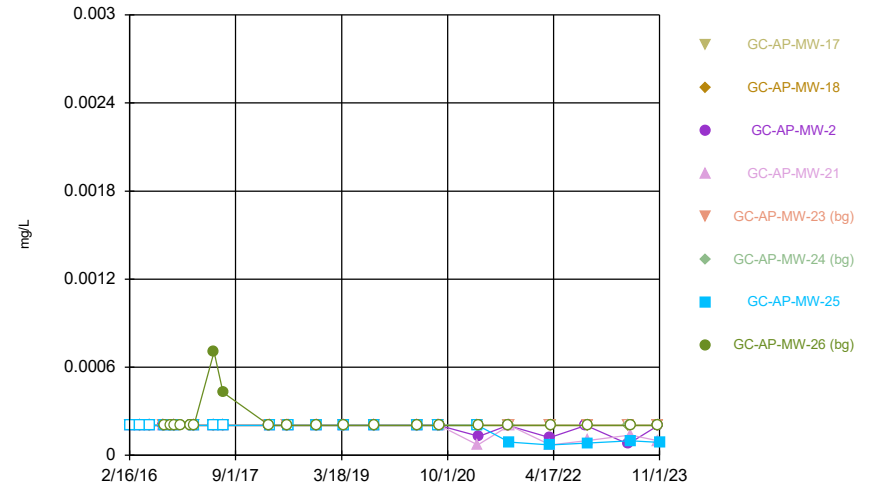
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Time Series



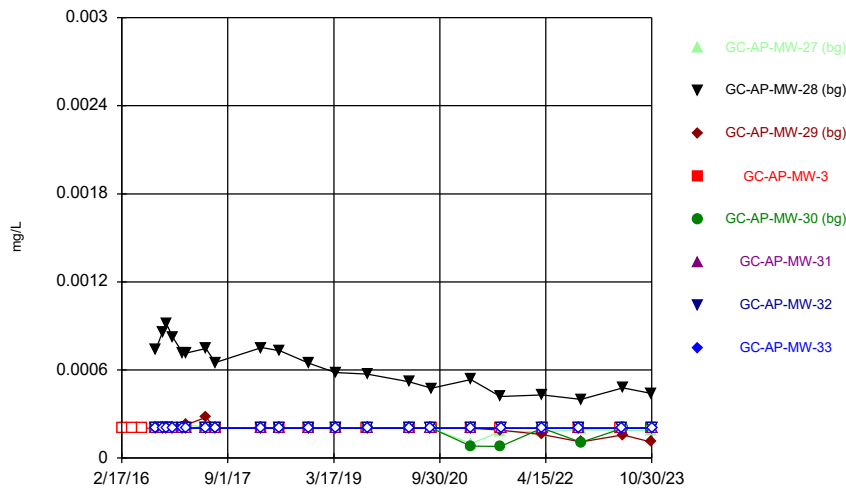
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Time Series



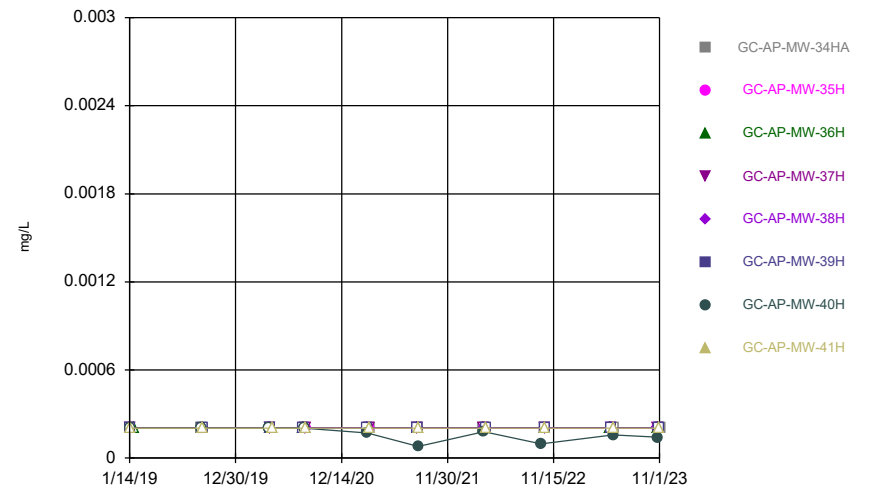
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Time Series



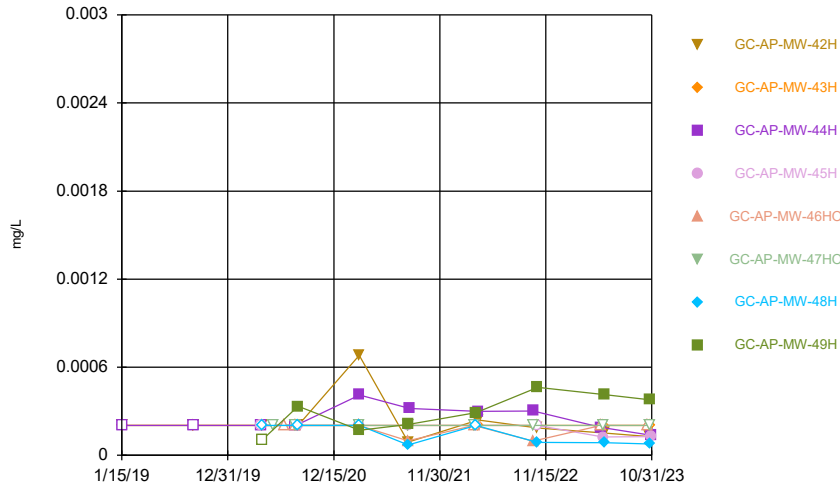
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Time Series



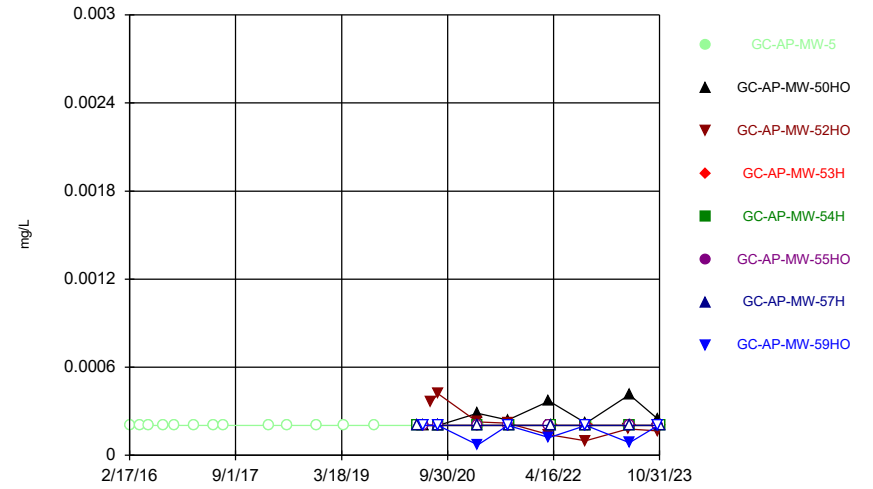
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Time Series



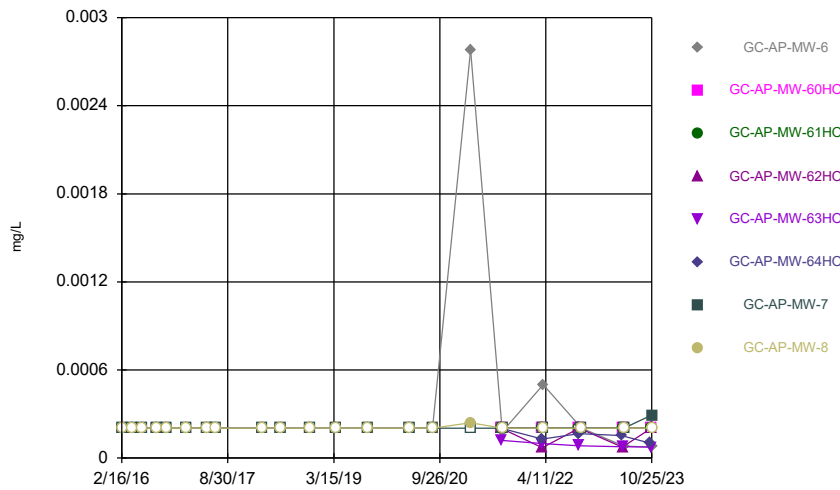
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Time Series



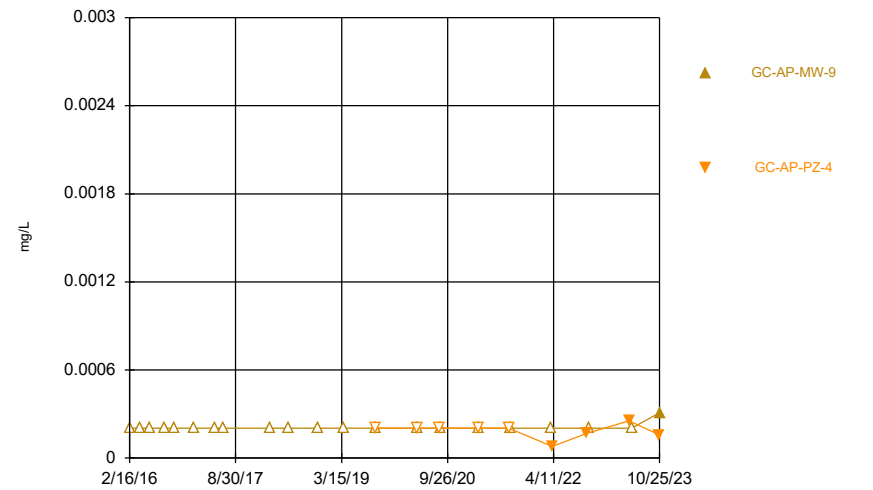
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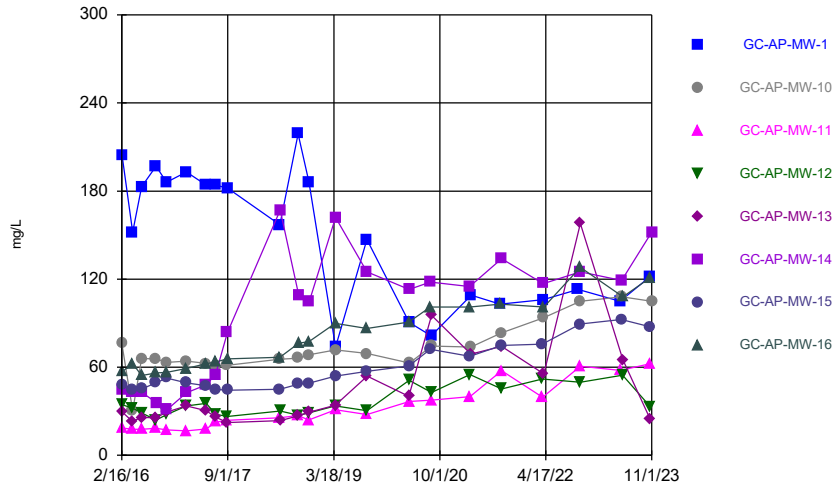
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Time Series



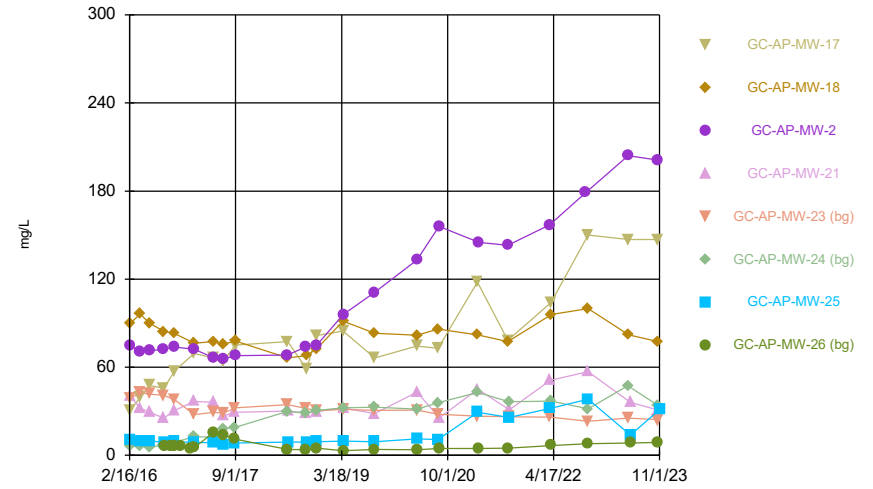
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### Time Series



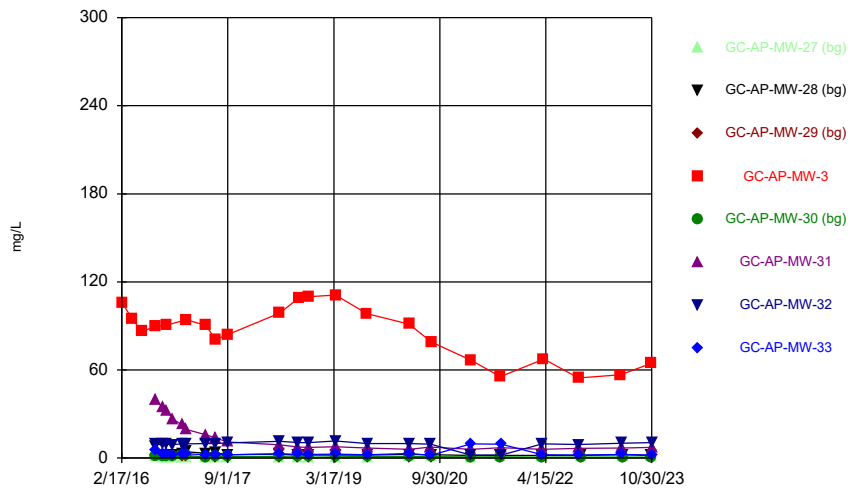
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### Time Series



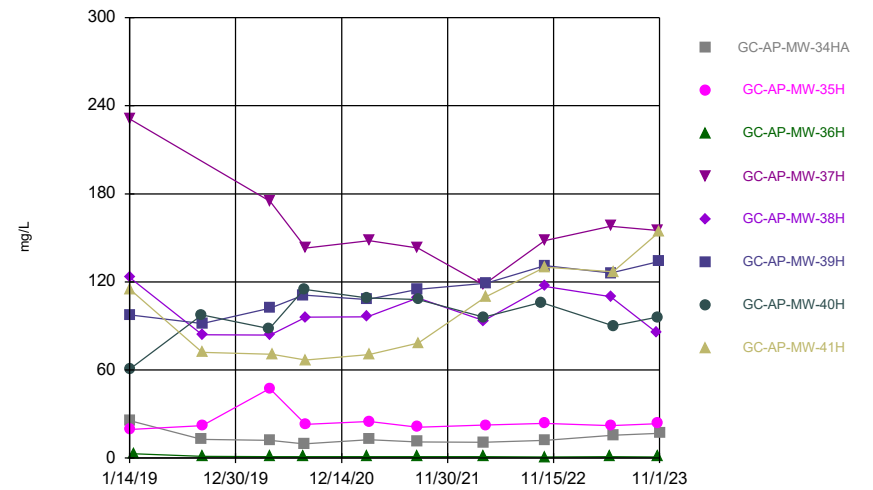
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### Time Series



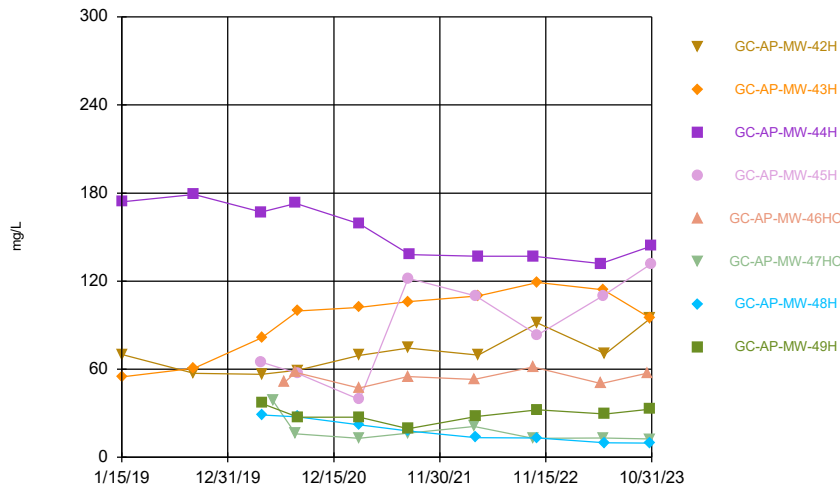
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### Time Series



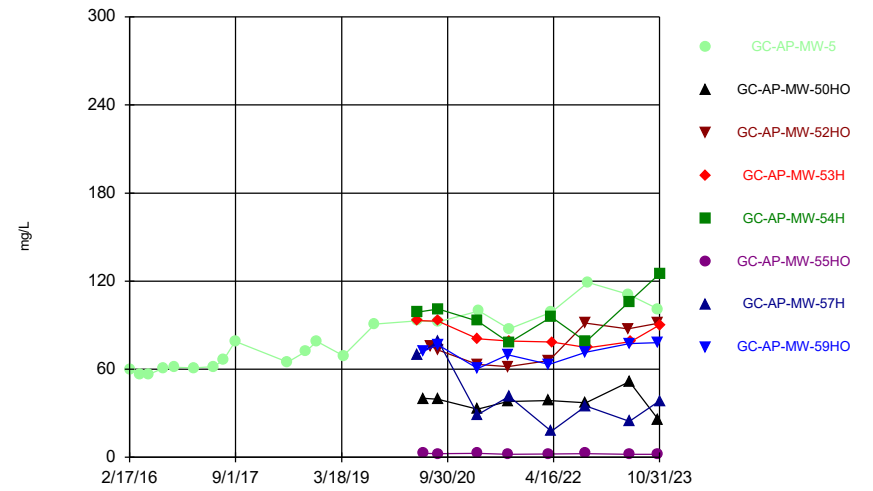
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### Time Series



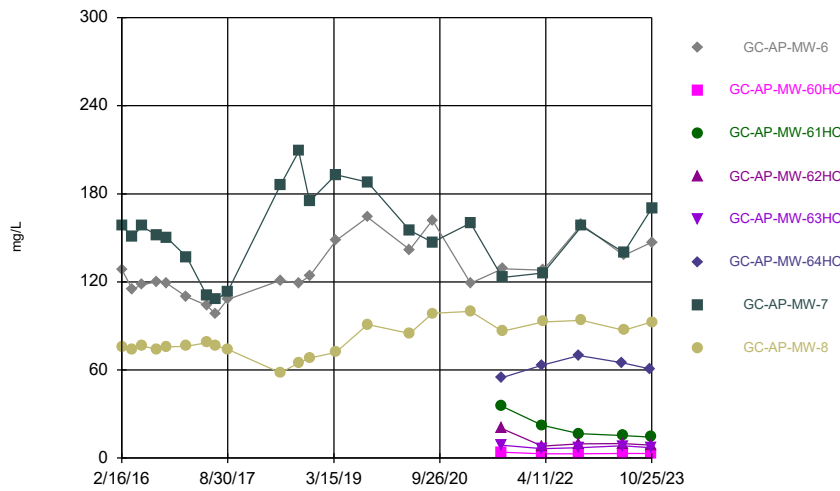
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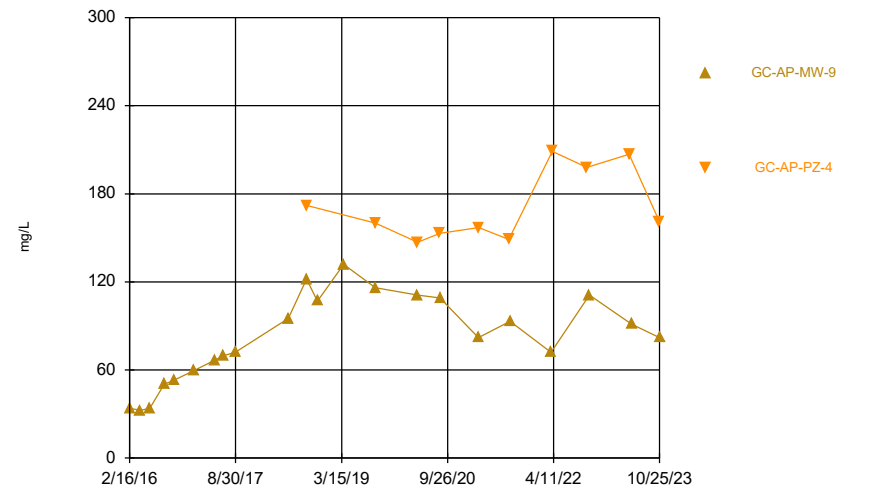
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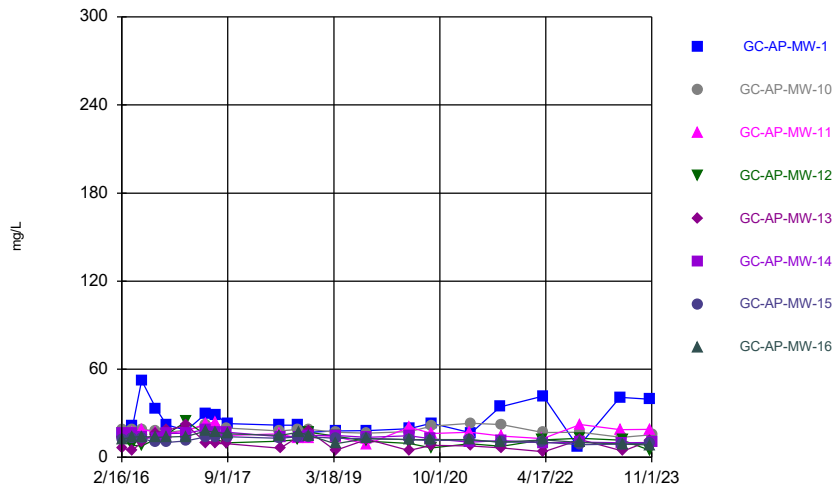
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### Time Series



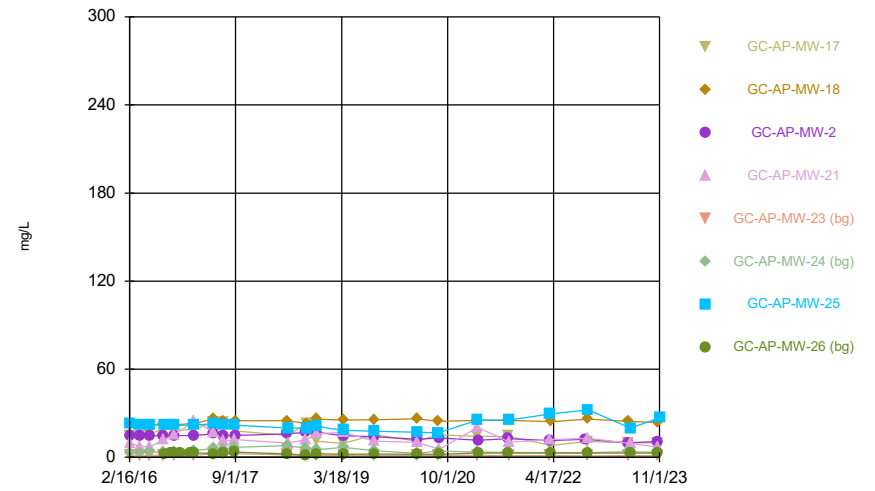
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### Time Series



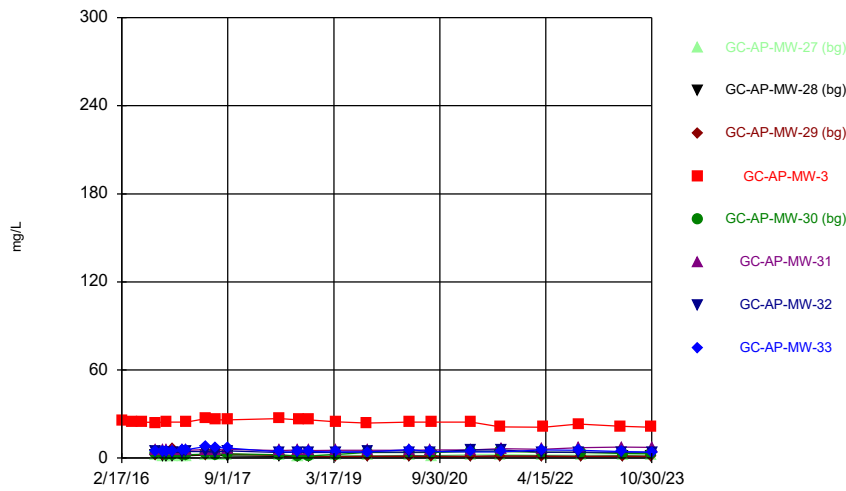
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### Time Series



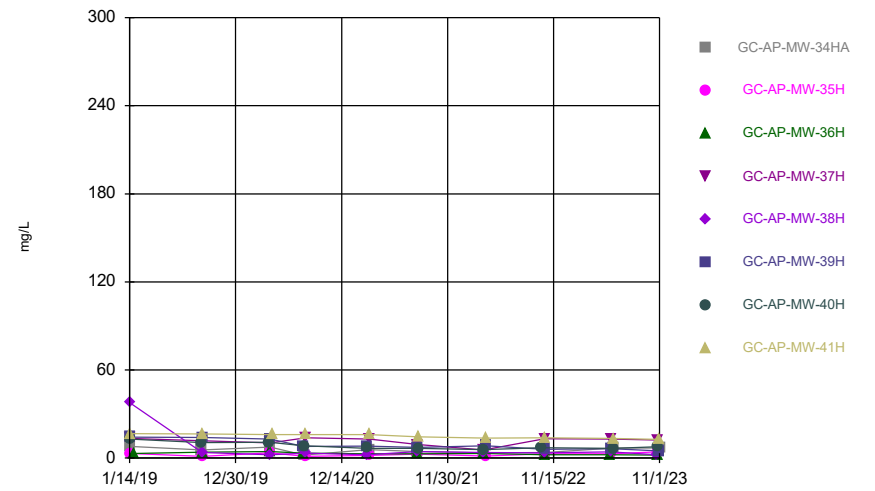
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### Time Series



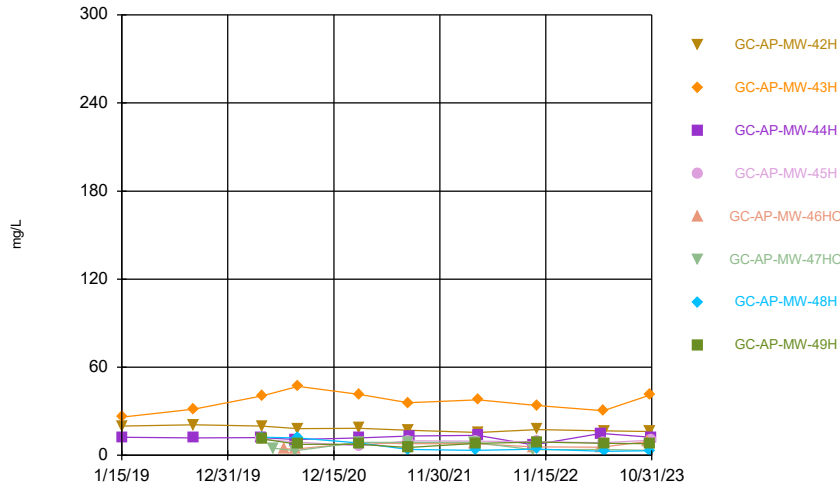
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### Time Series



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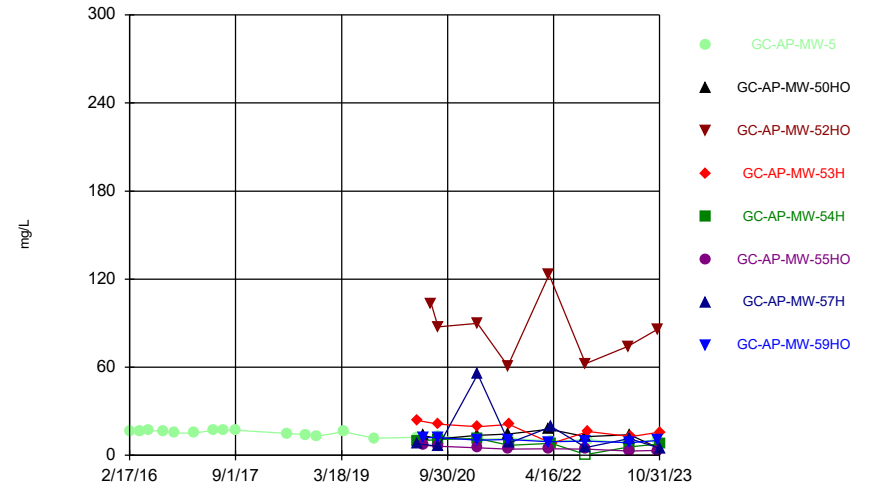
Time Series



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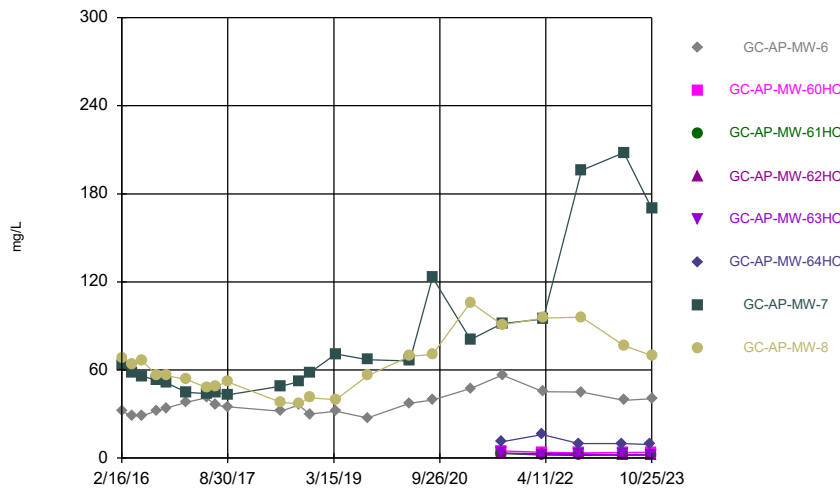
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Time Series



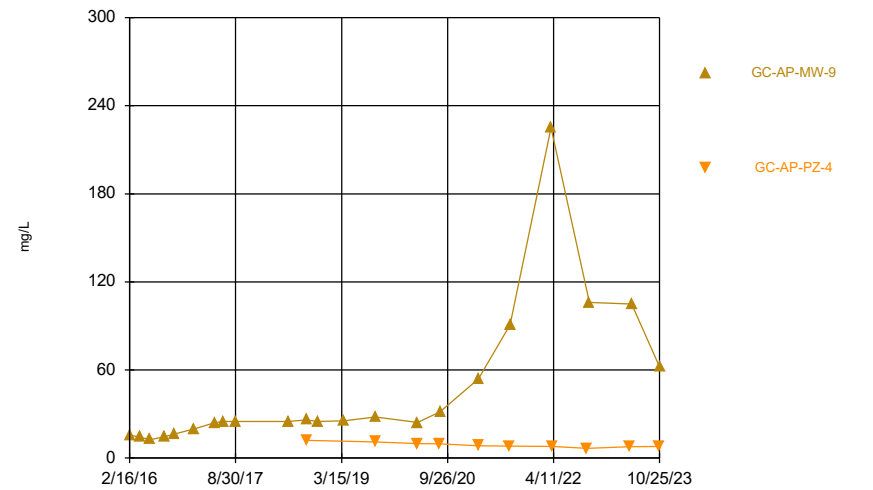
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Time Series



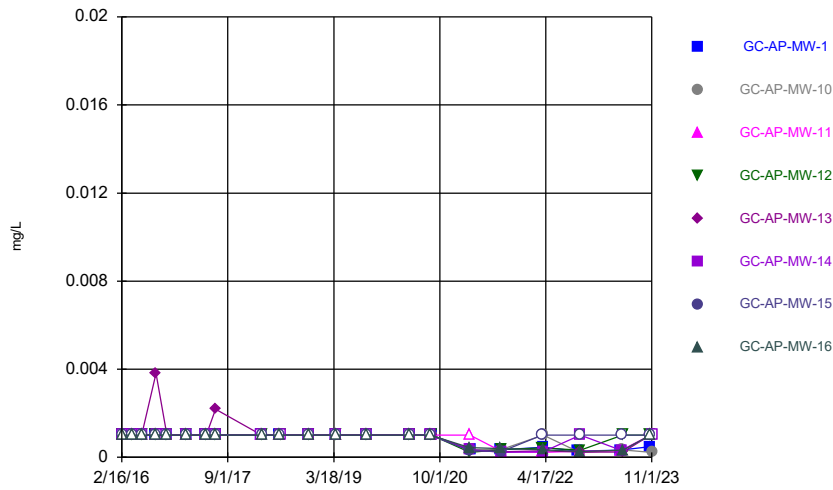
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Time Series



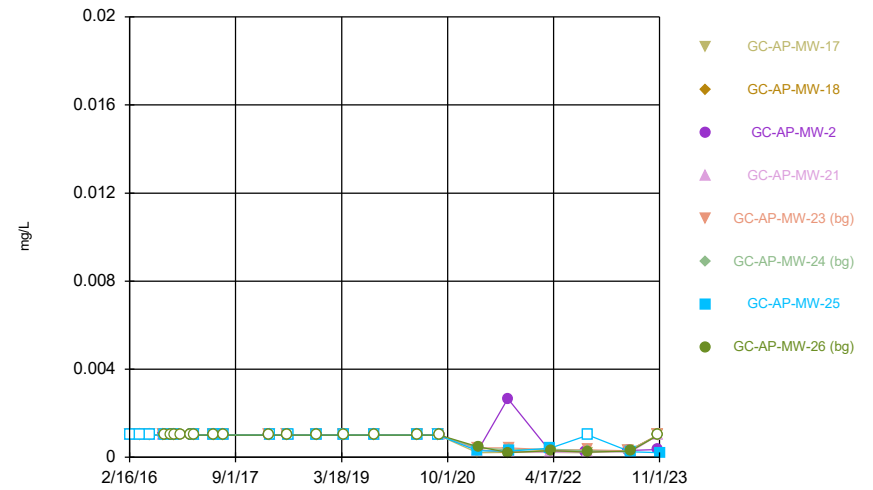
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### Time Series



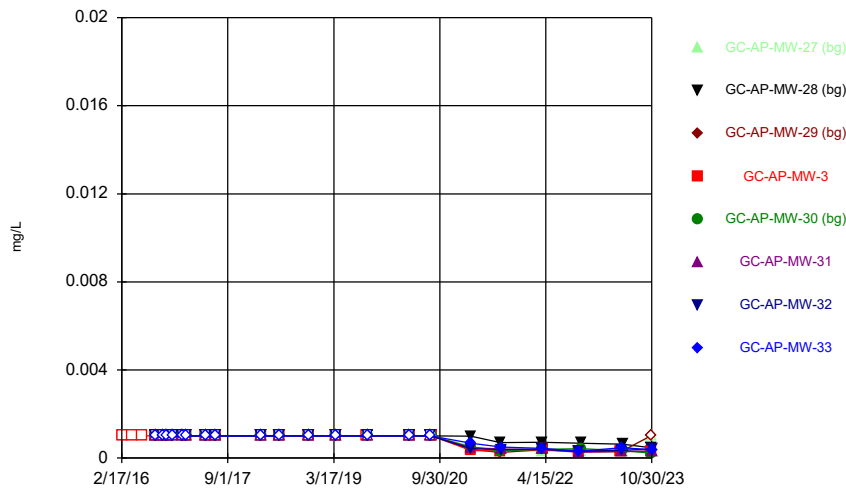
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Plant Greene County Data: Greene County AP

### Time Series



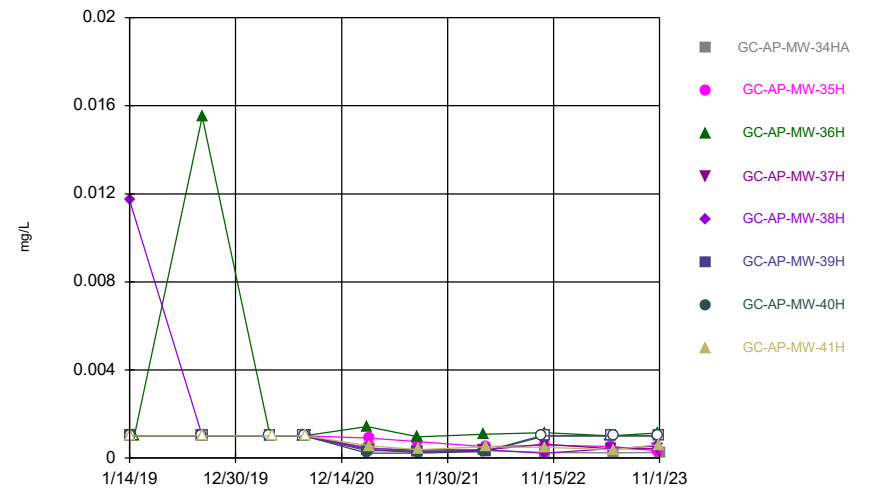
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Plant Greene County Data: Greene County AP

### Time Series



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Plant Greene County Data: Greene County AP

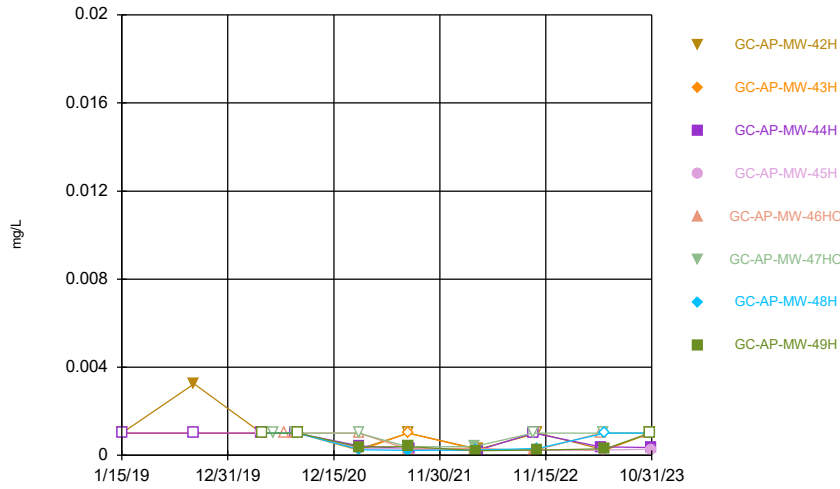
### Time Series



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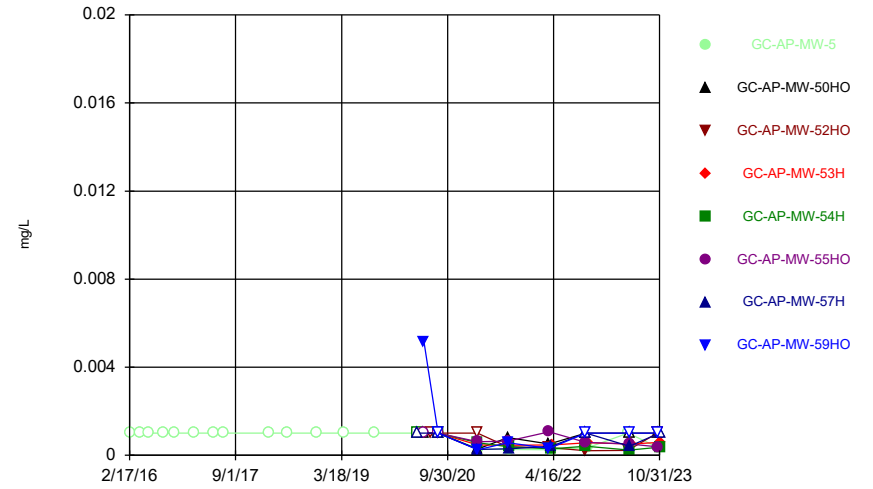


Time Series



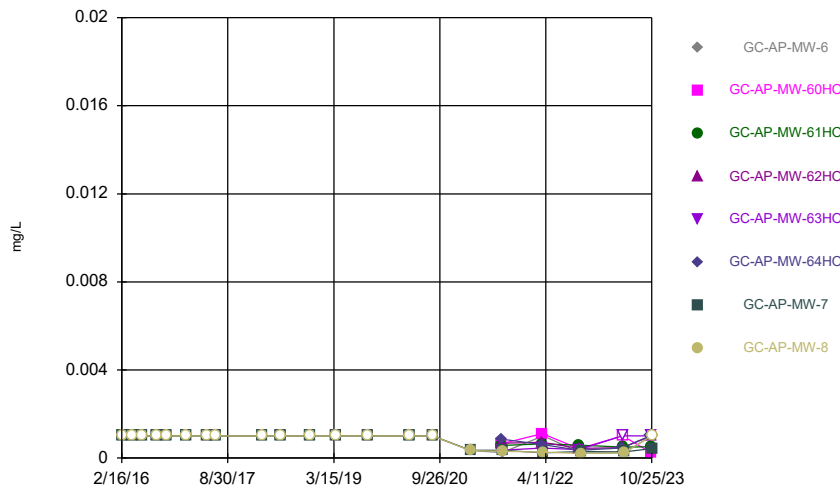
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Plant Greene County Data: Greene County AP

Time Series



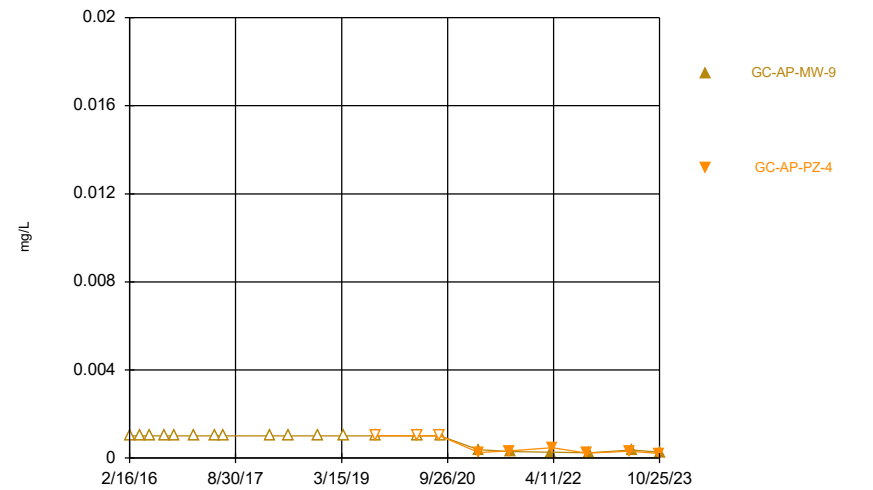
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Time Series



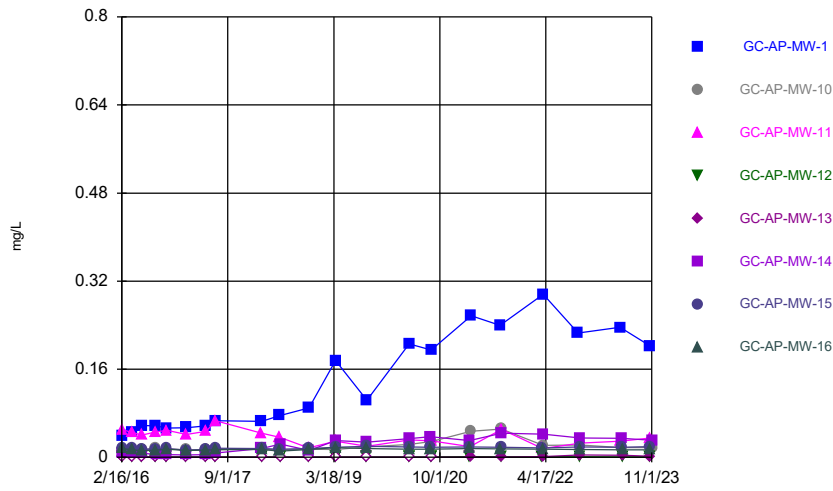
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Time Series



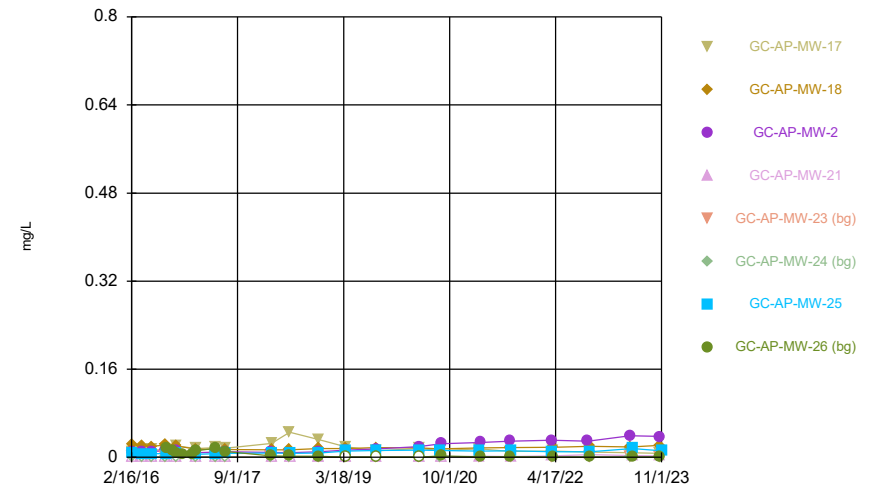
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### Time Series



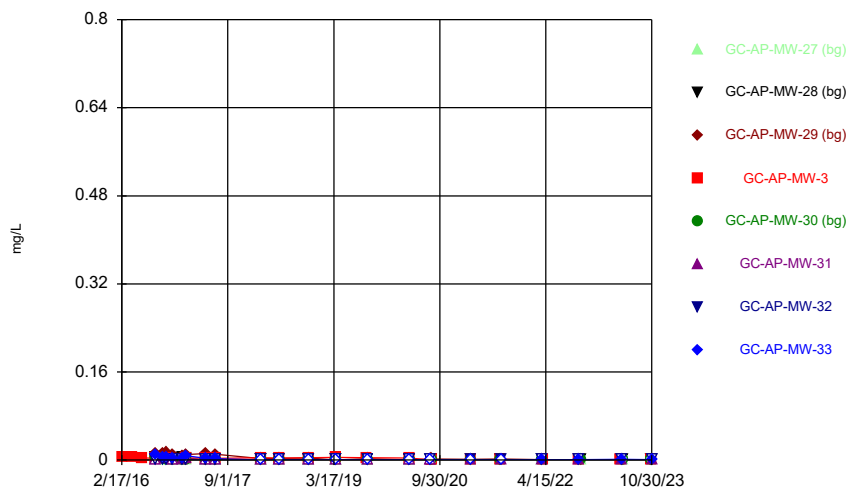
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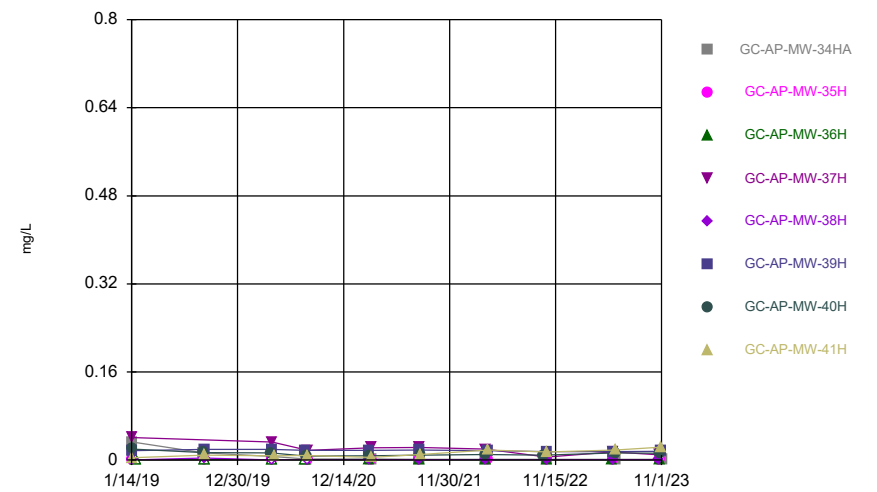
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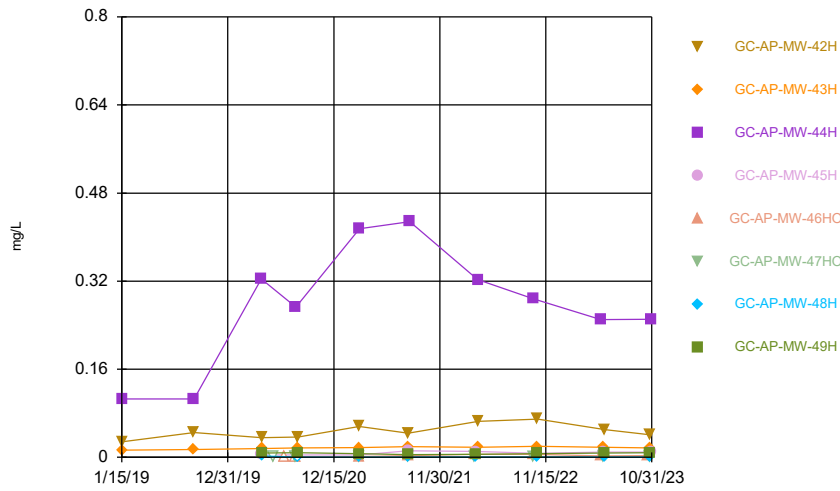
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### Time Series



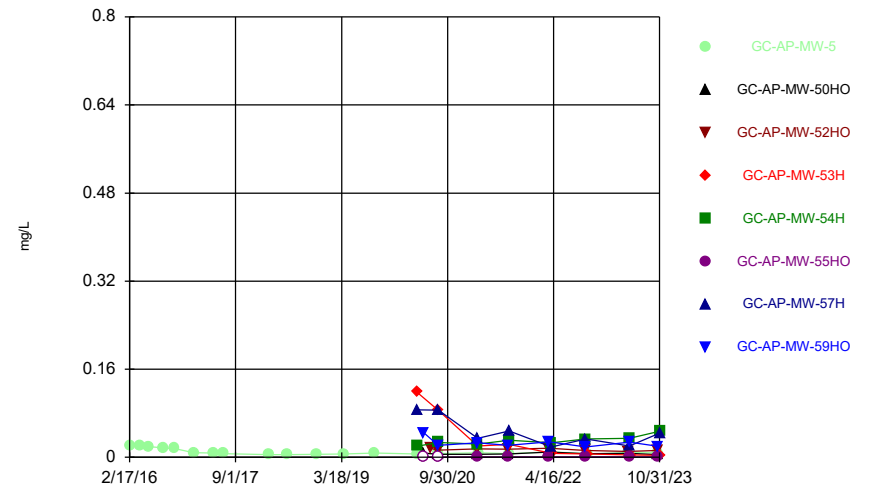
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Plant Greene County Data: Greene County AP

Time Series



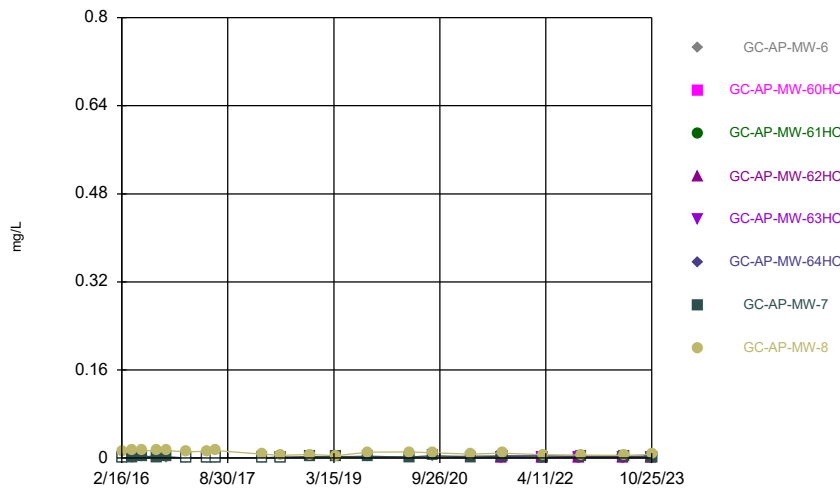
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Time Series



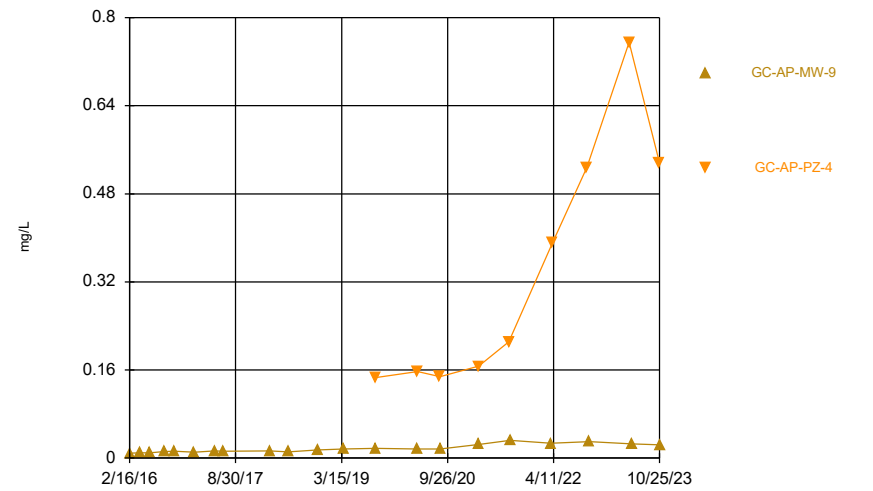
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Time Series



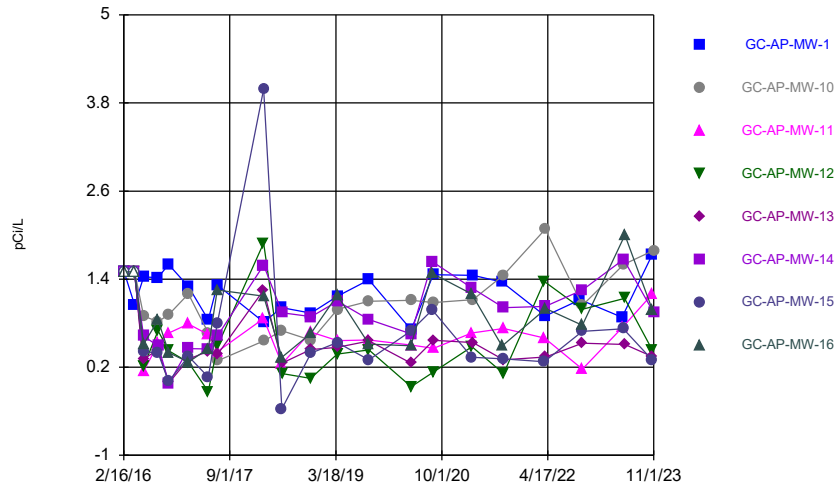
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Time Series



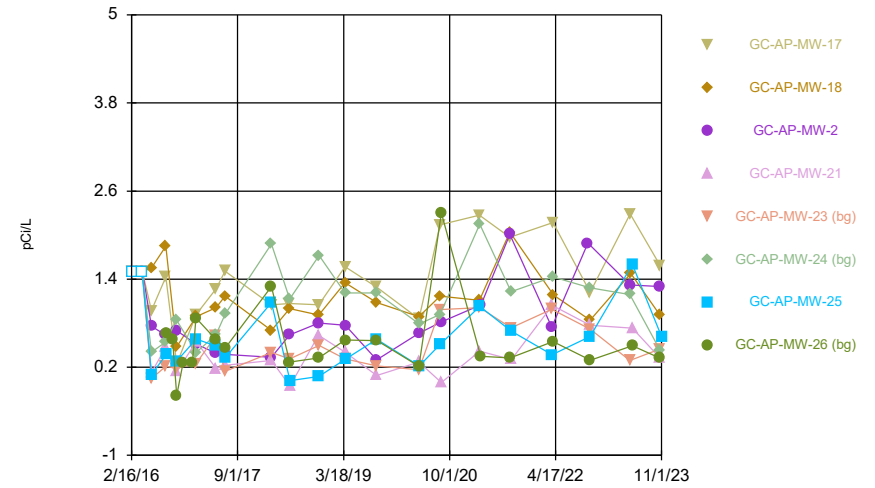
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### Time Series



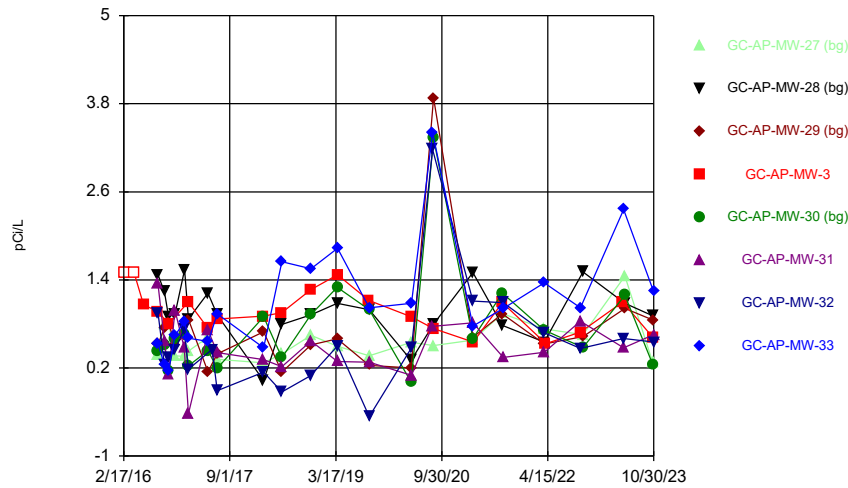
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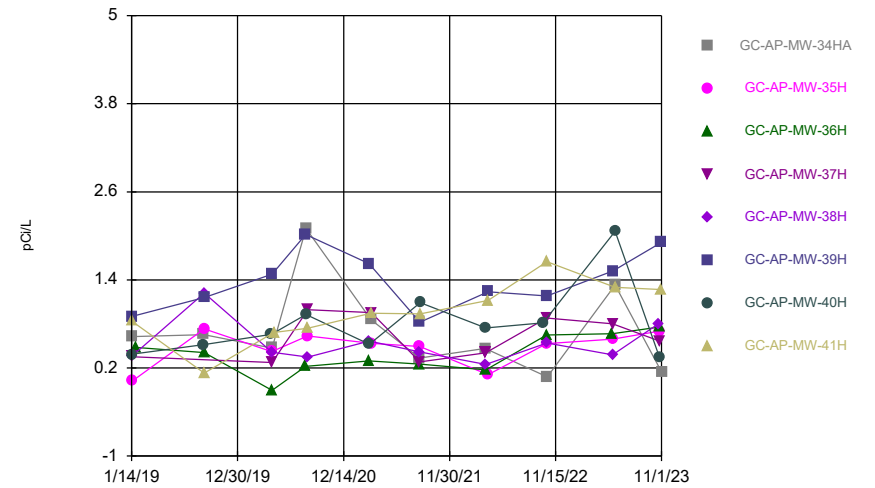
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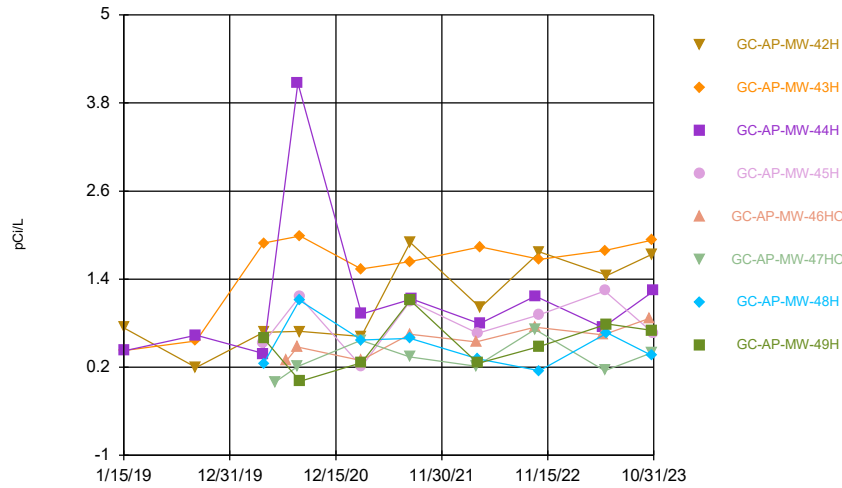
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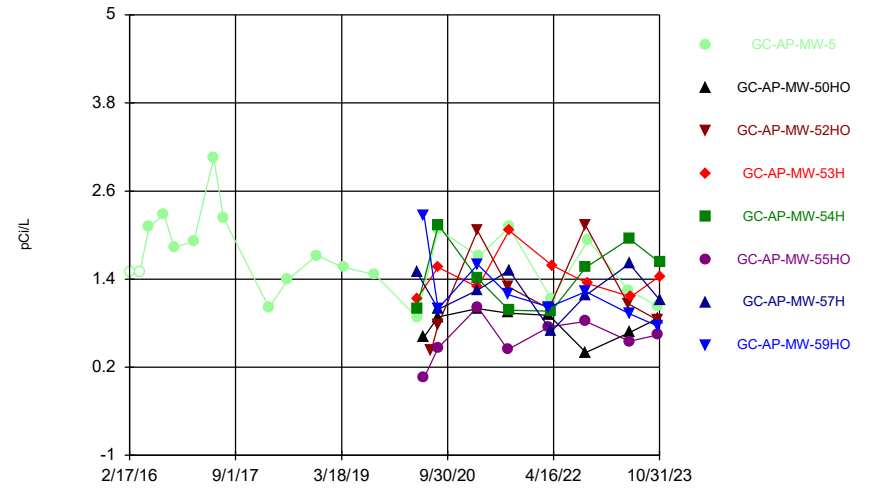
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Hollow symbols indicate censored values.

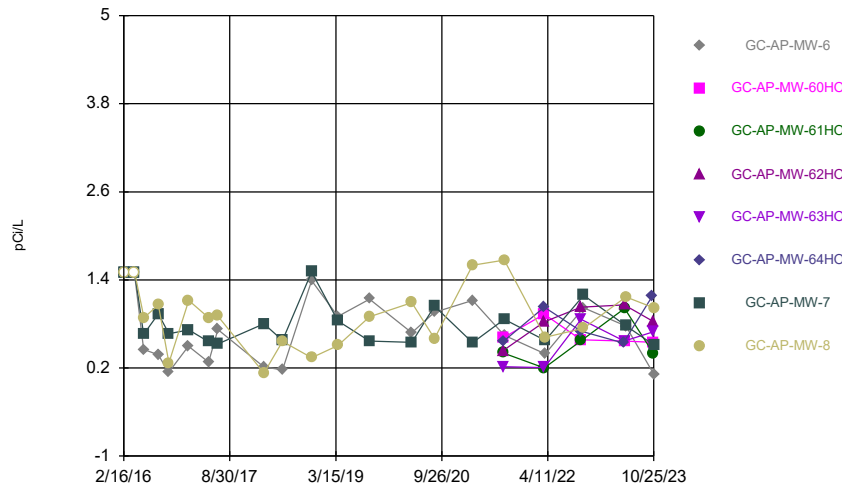
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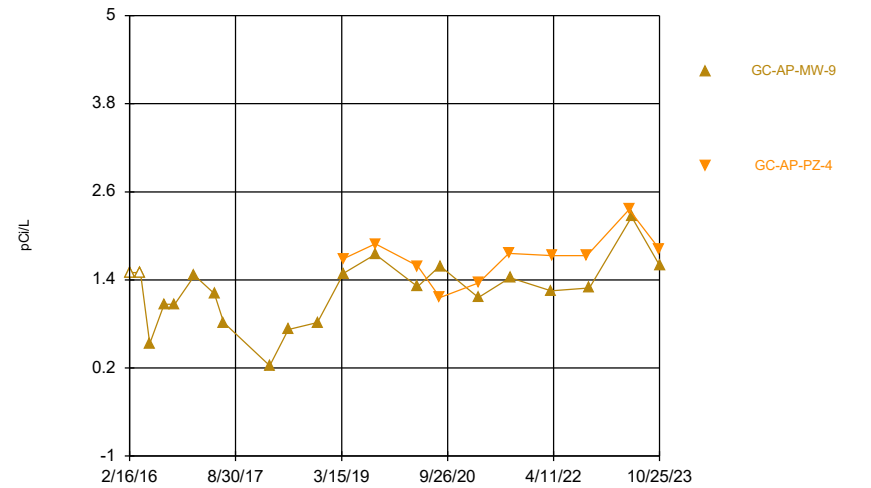
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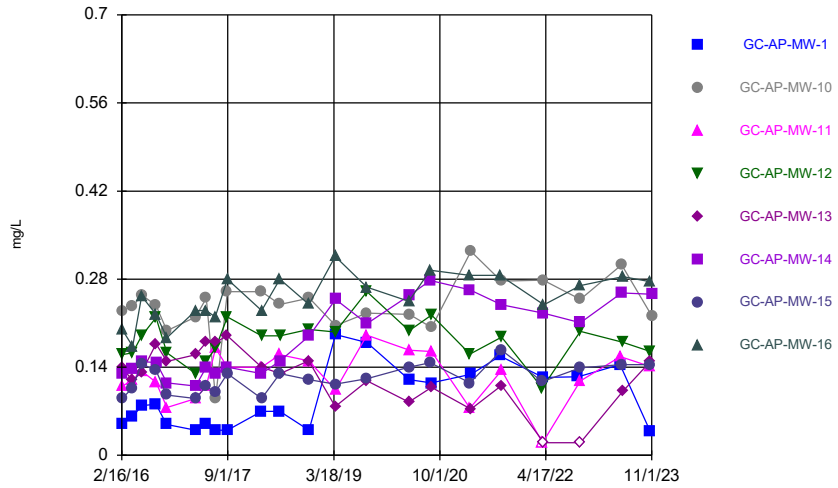
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### Time Series



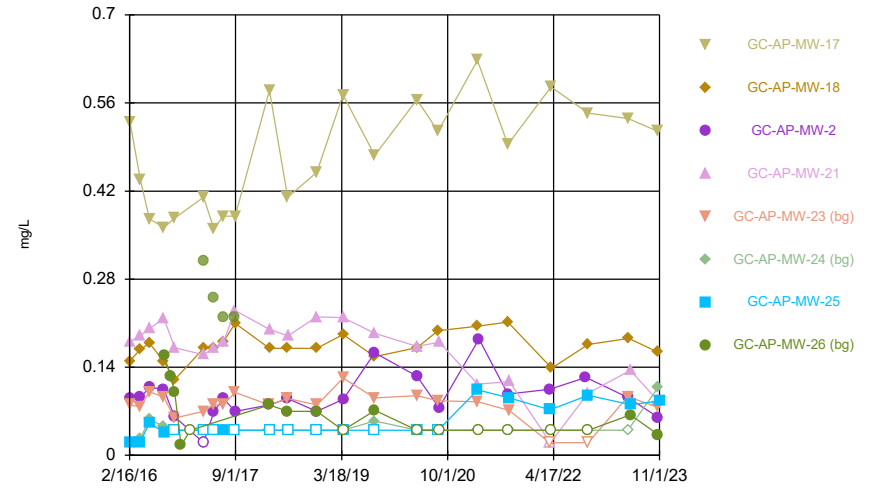
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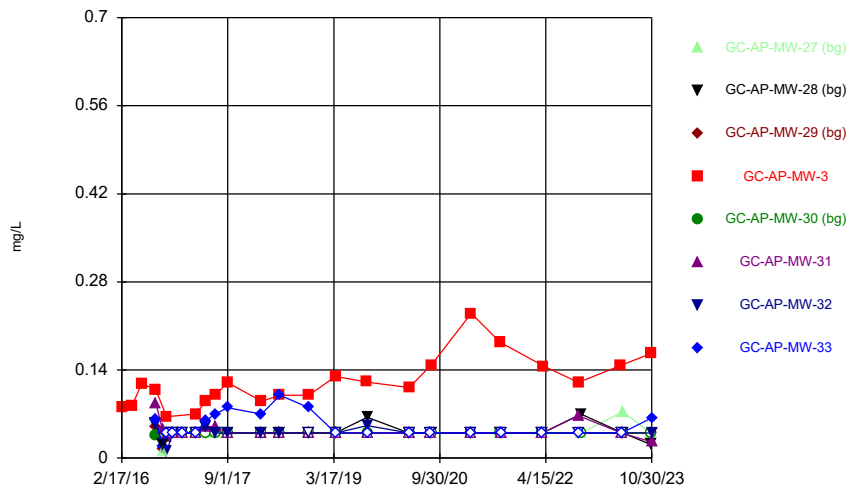
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### Time Series



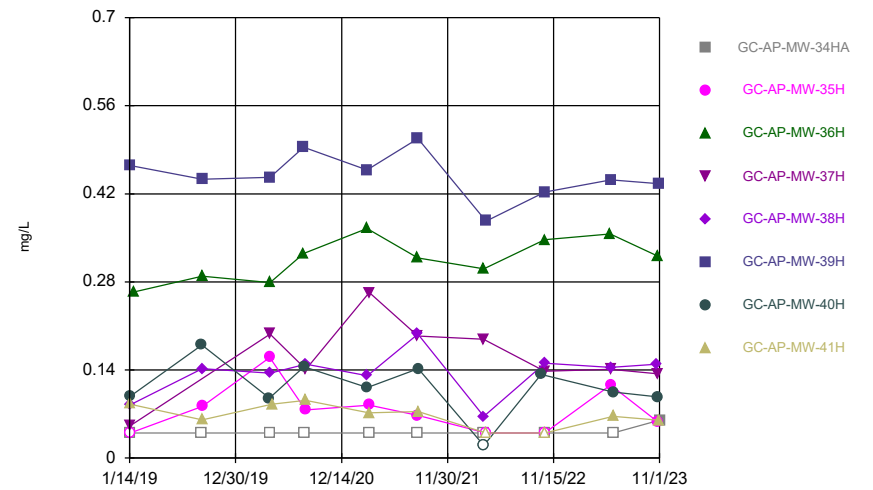
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### Time Series



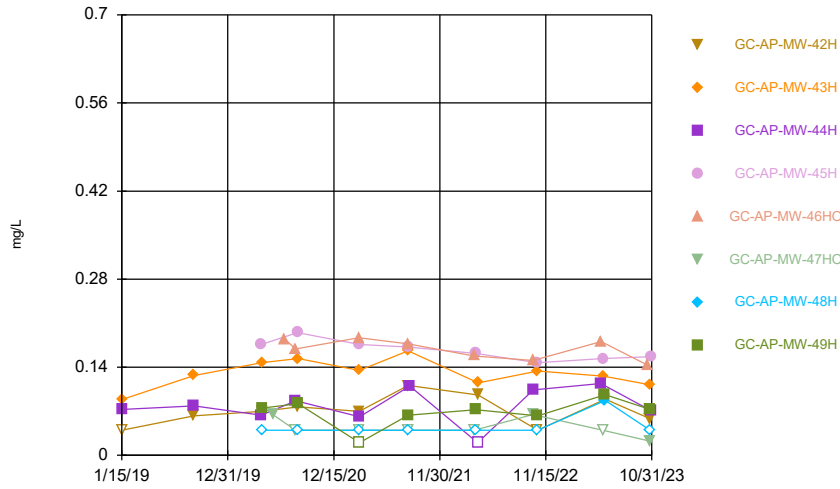
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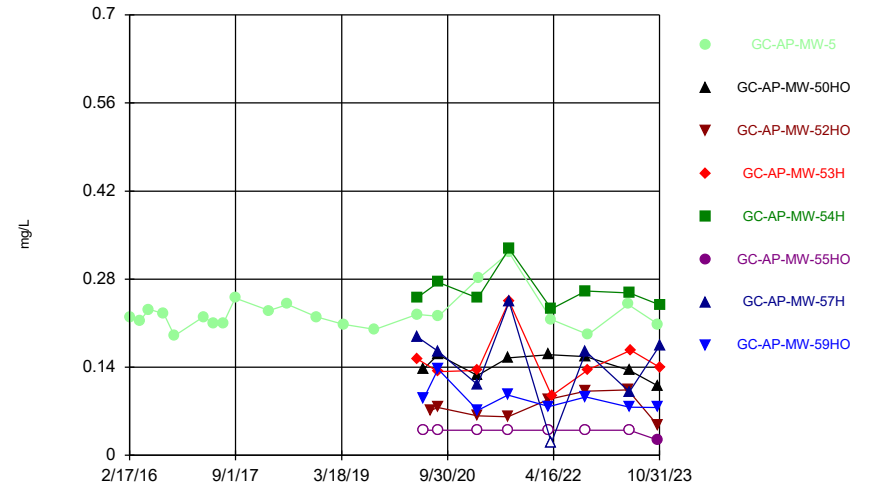
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Time Series



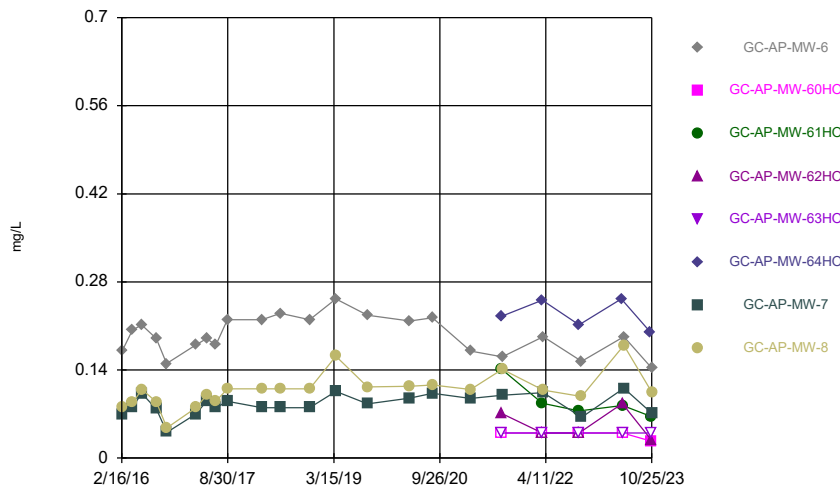
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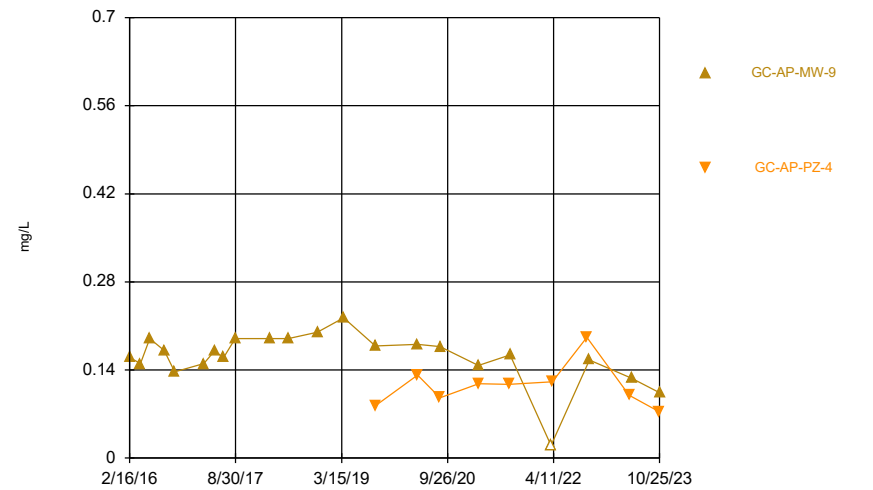
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Time Series



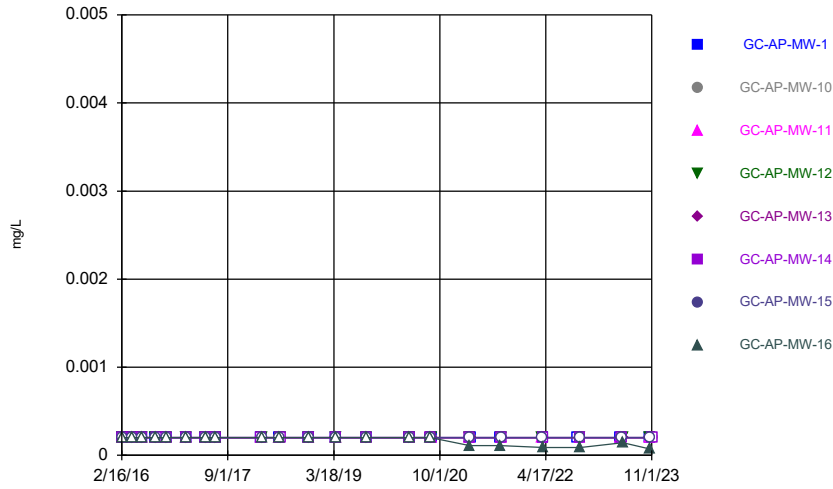
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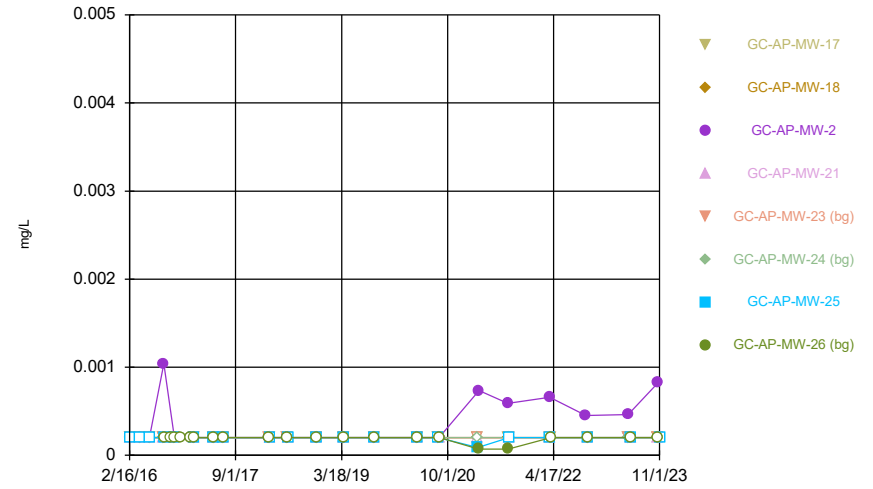
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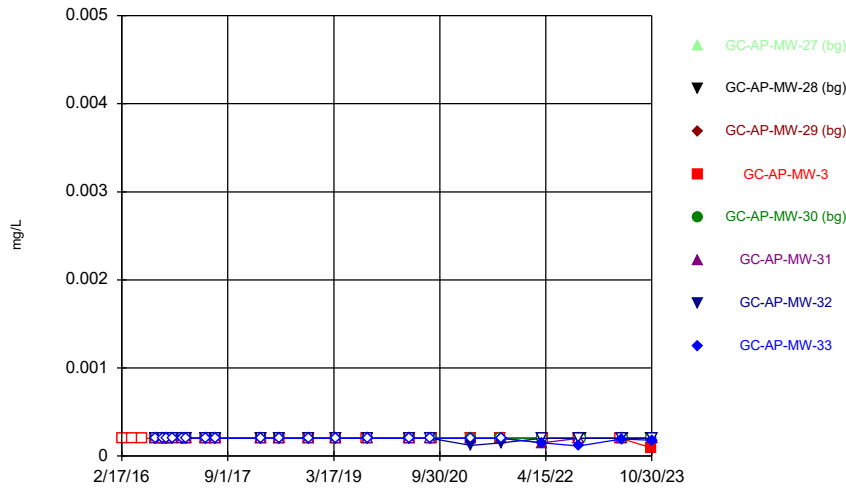
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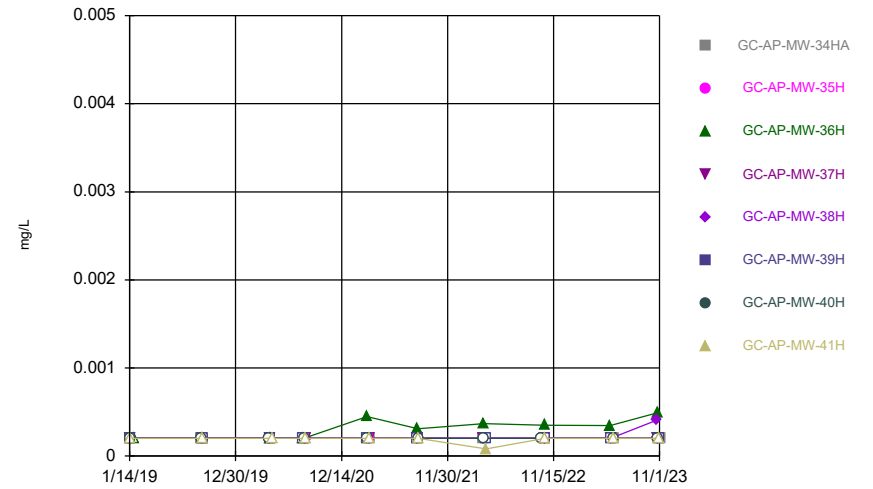
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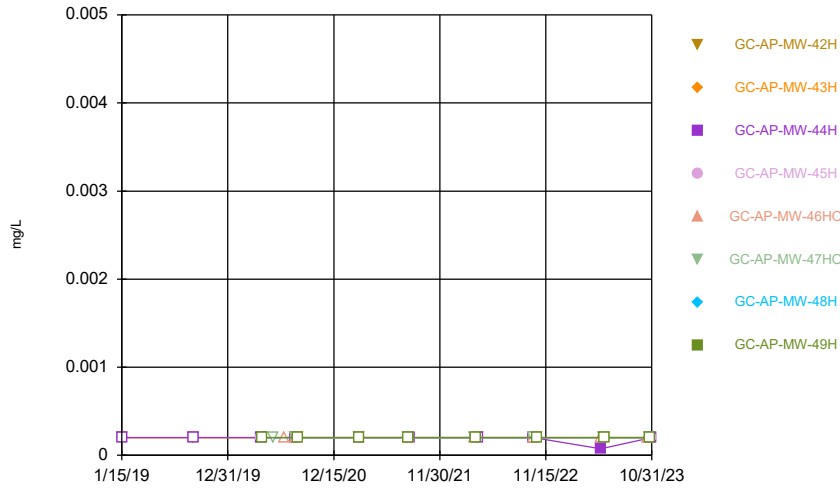
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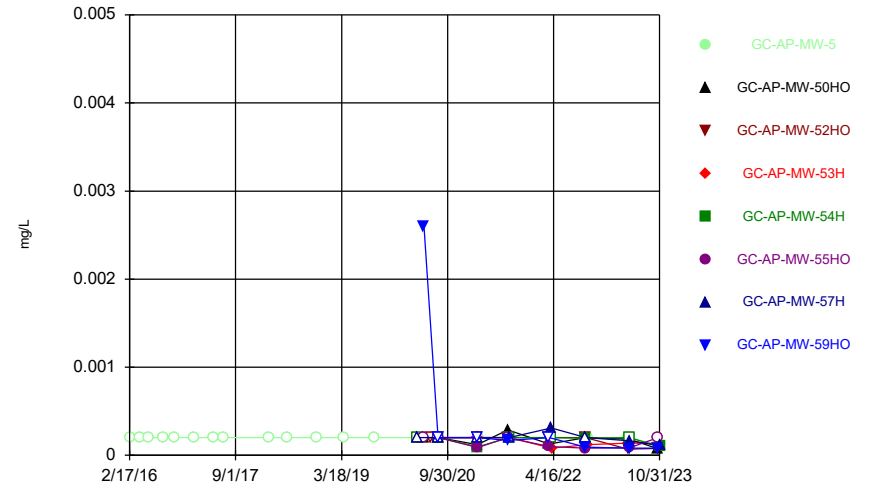


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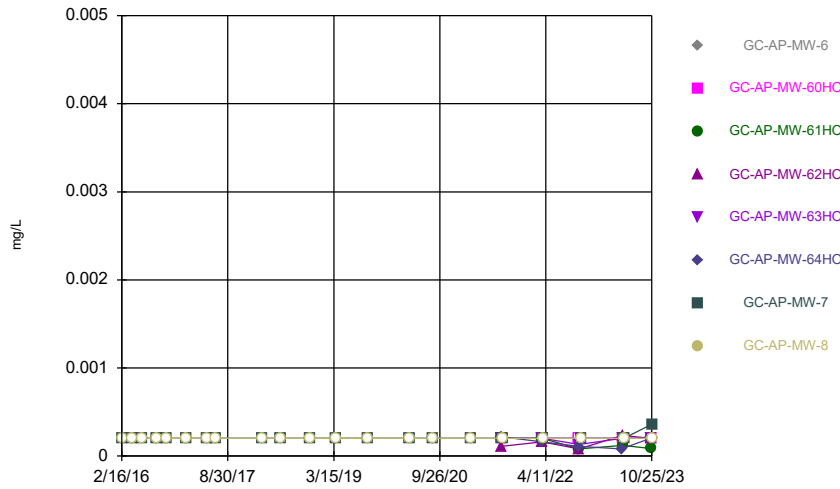
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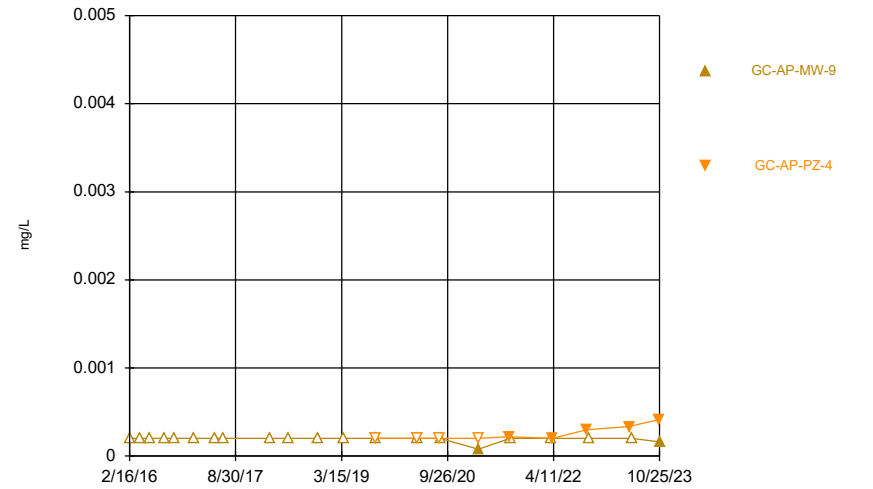
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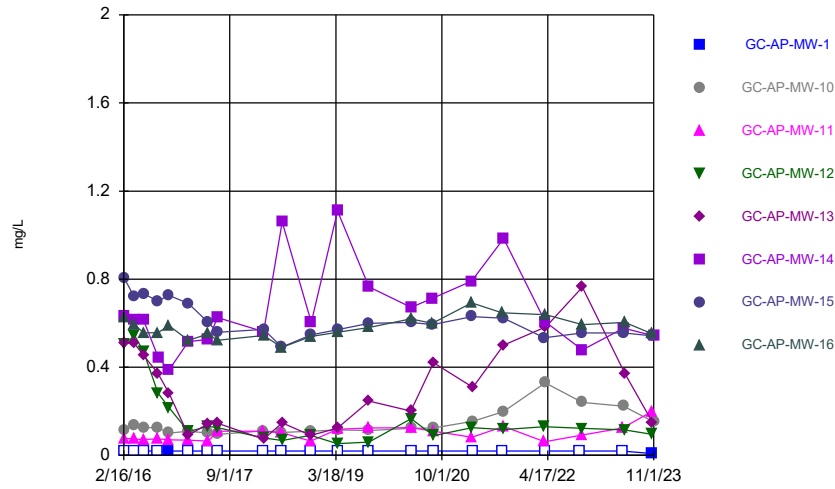
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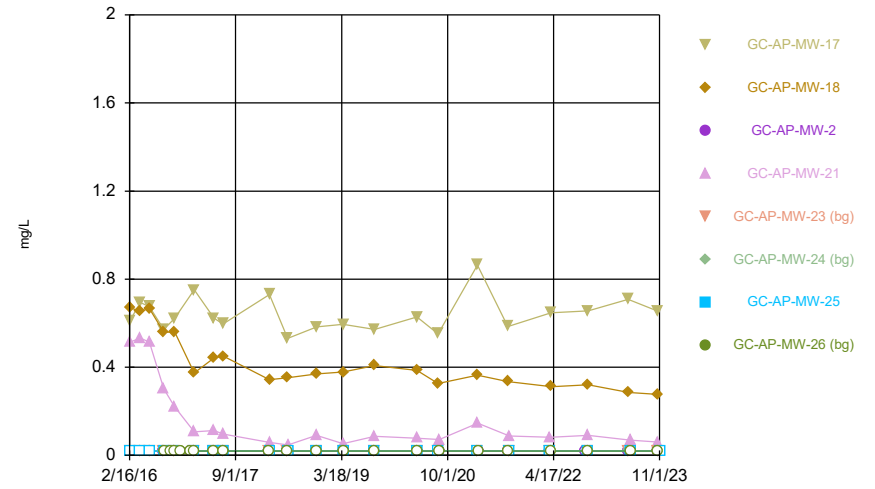
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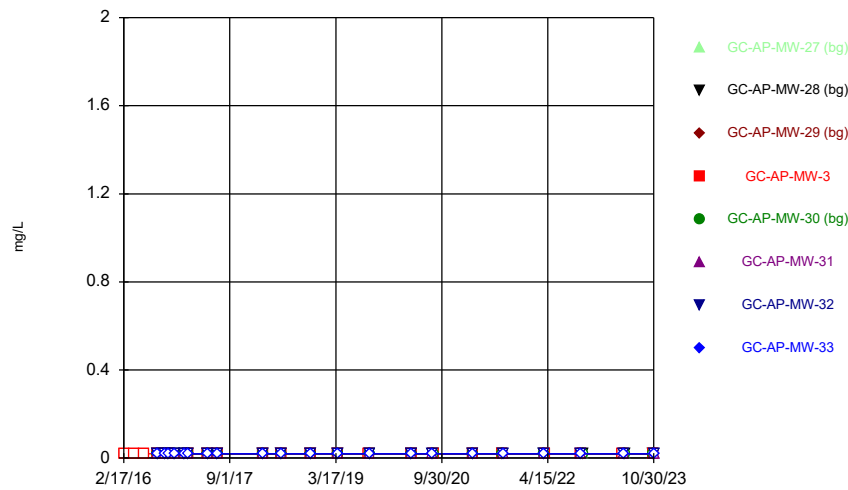
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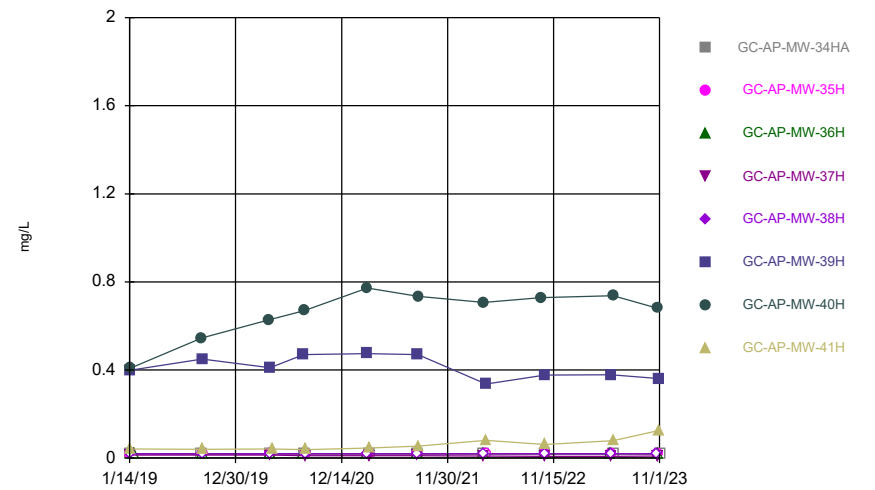
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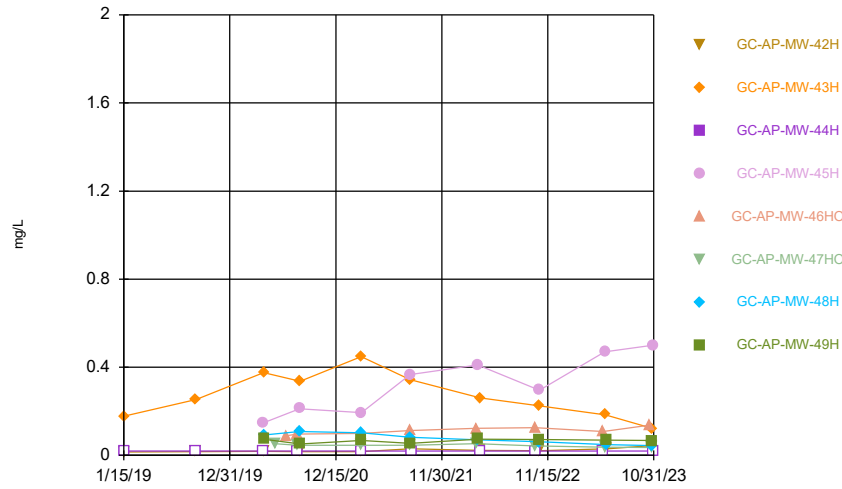
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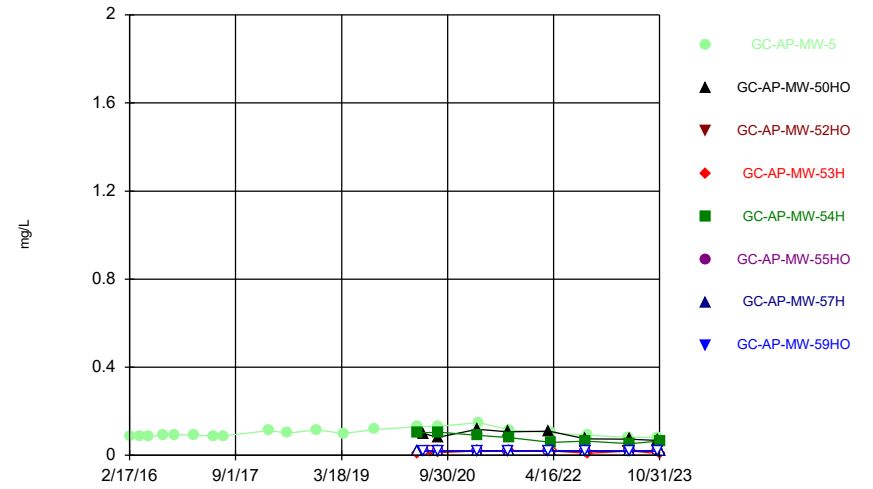
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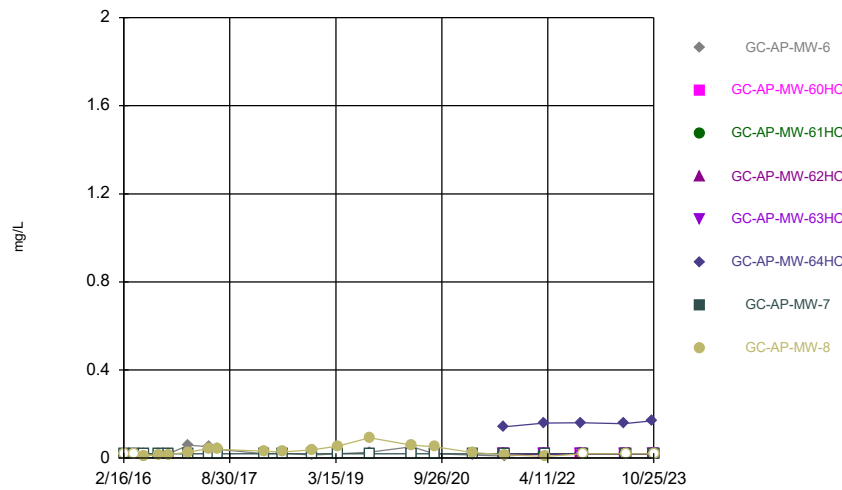
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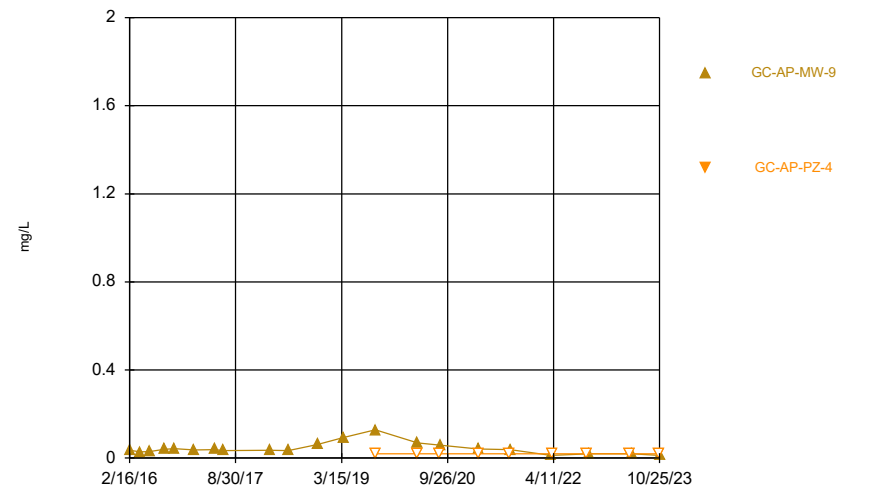
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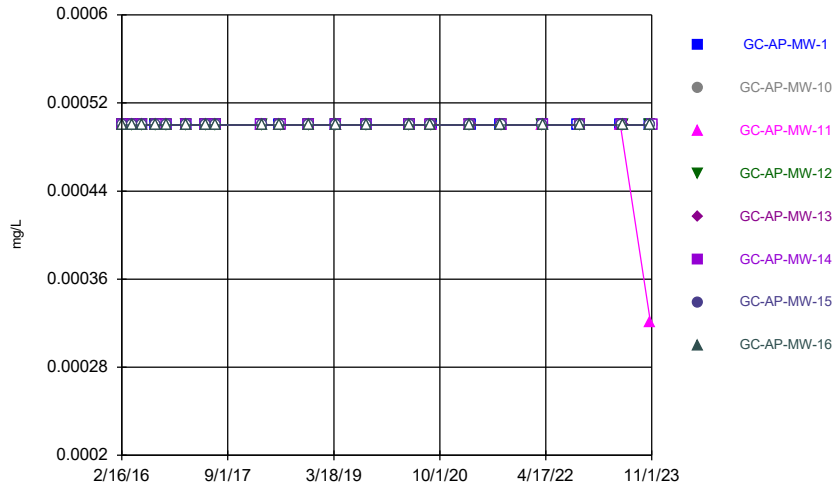
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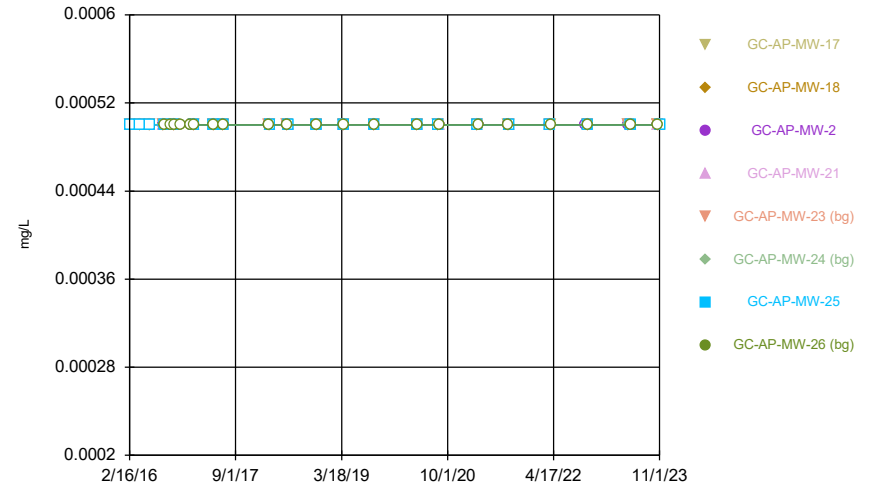
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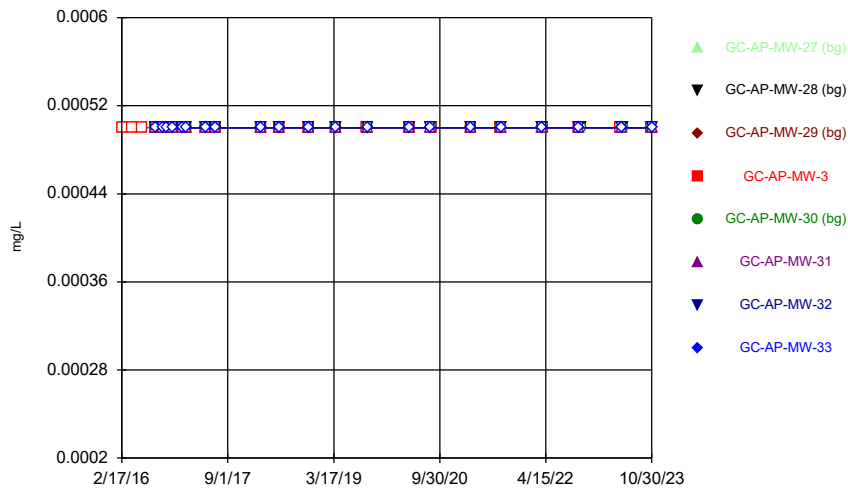
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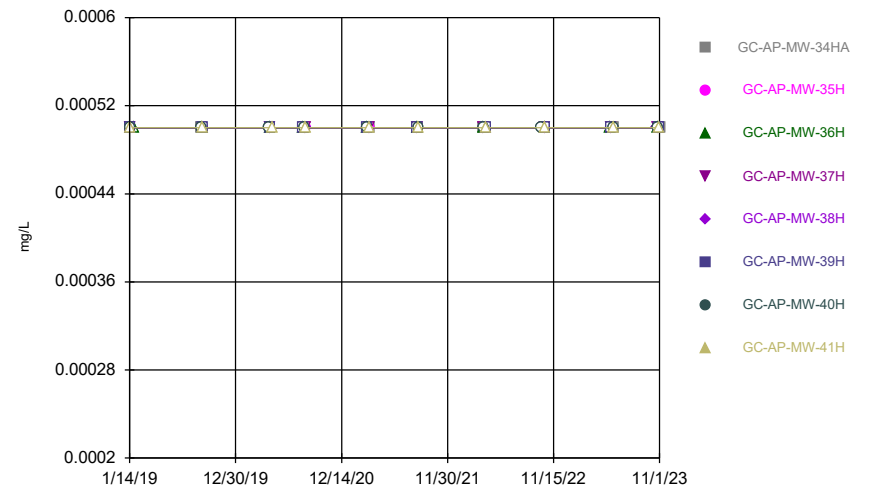
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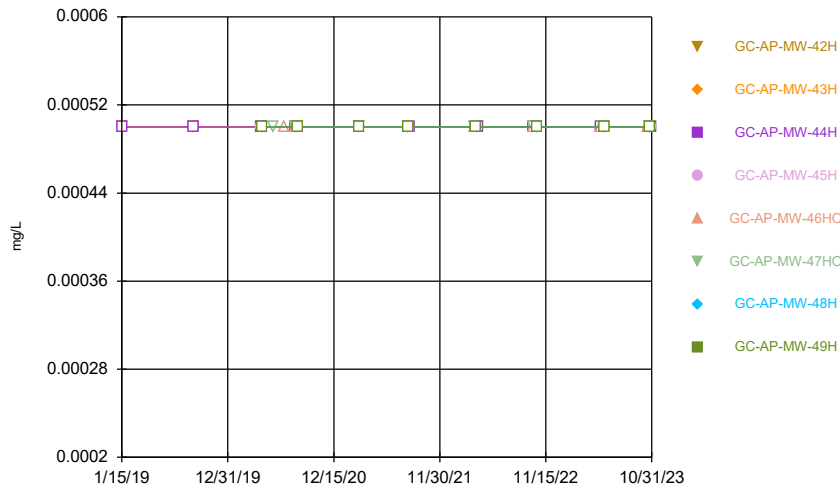
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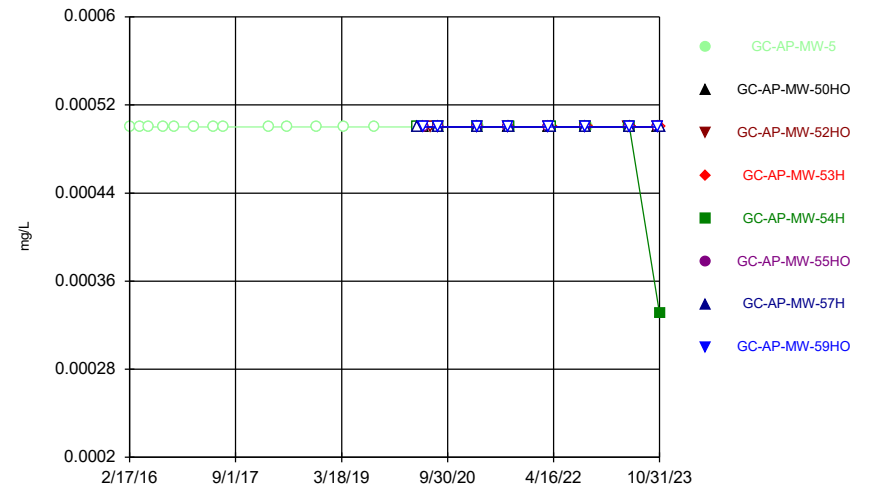
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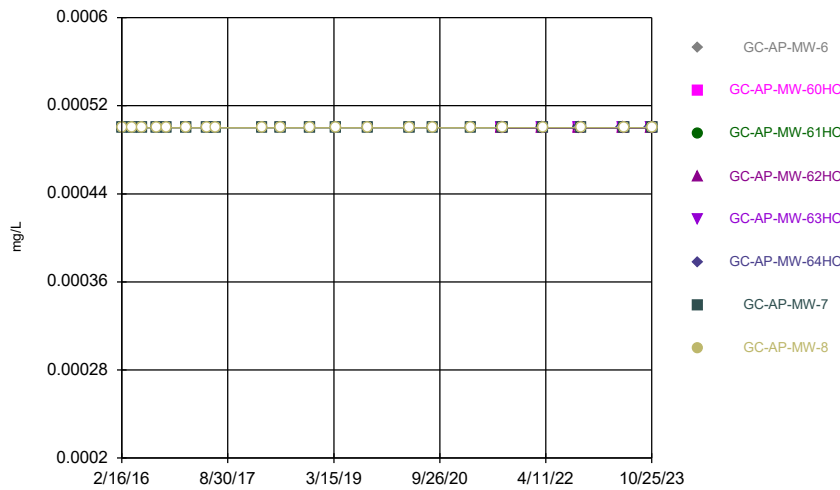
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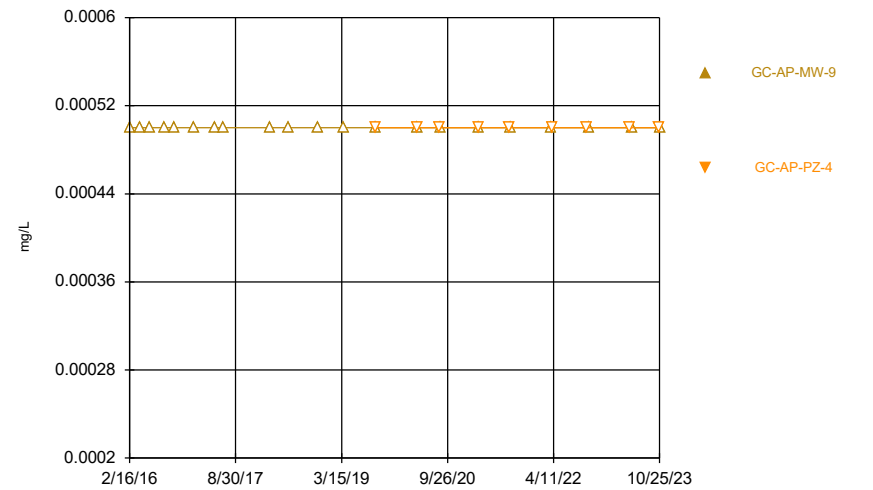
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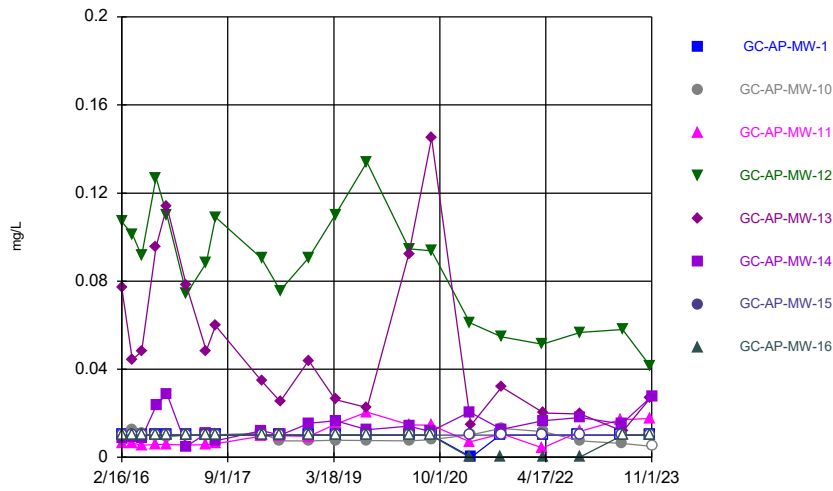
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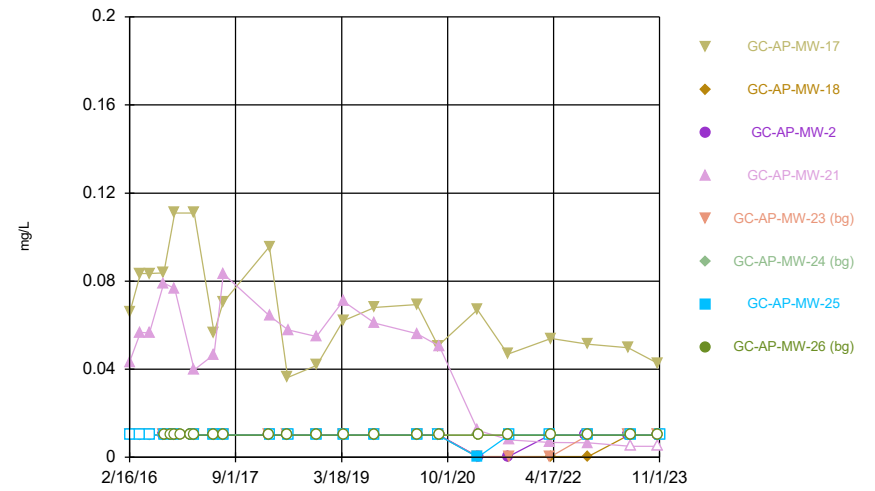
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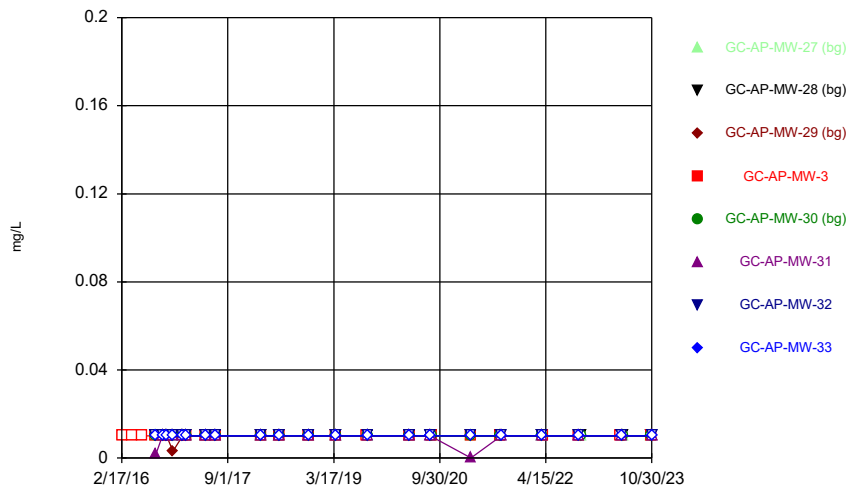
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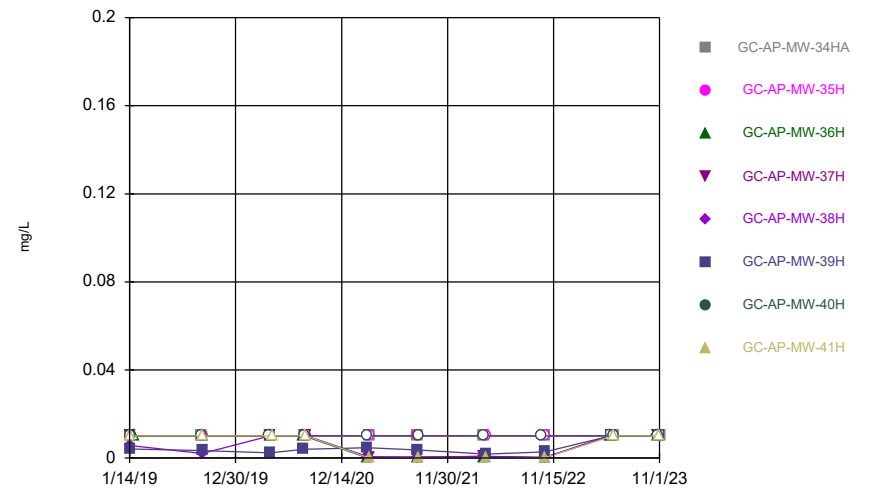
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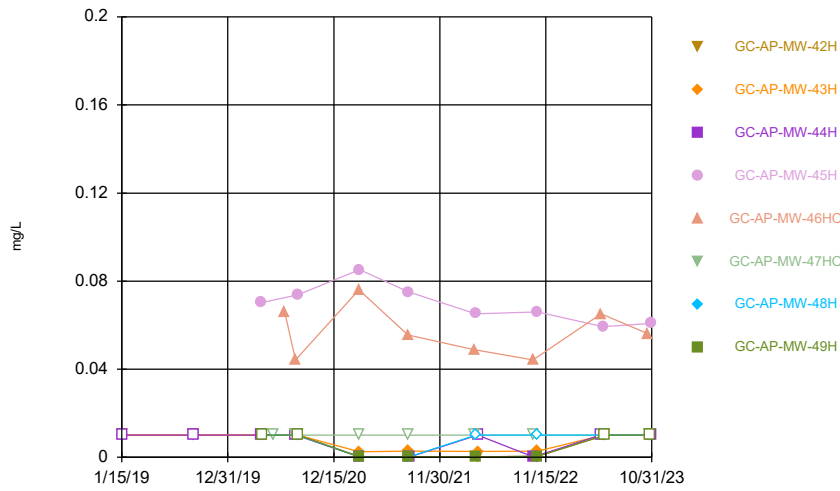
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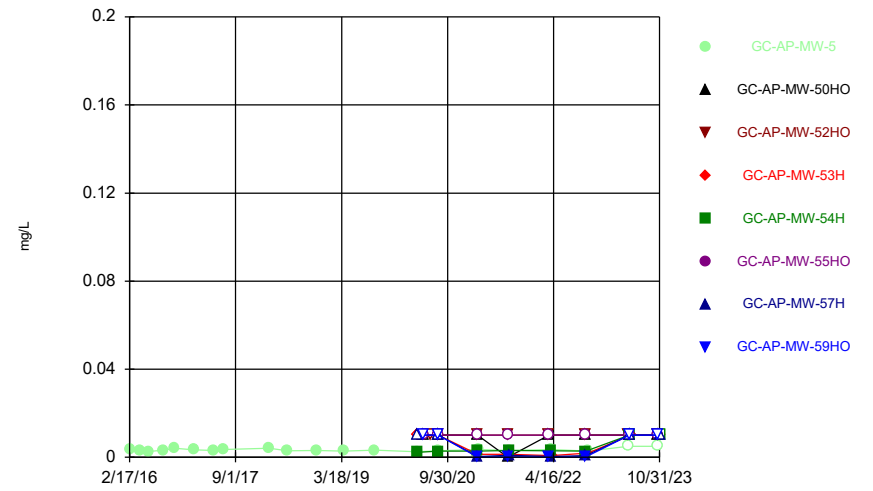
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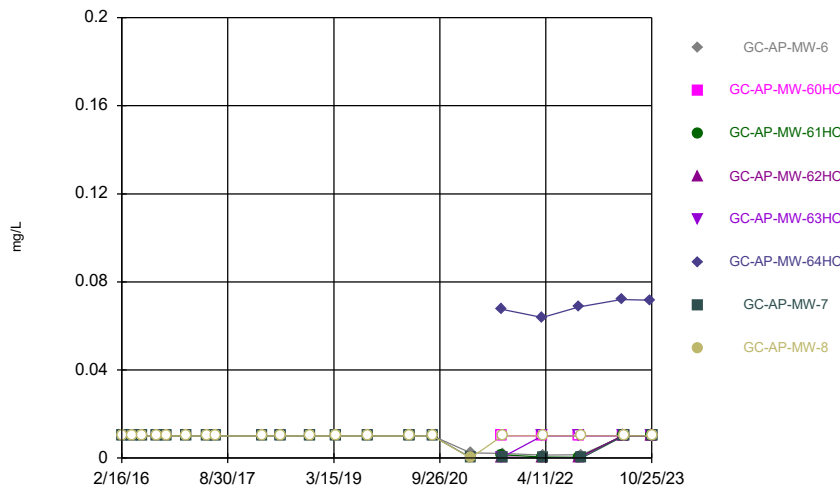
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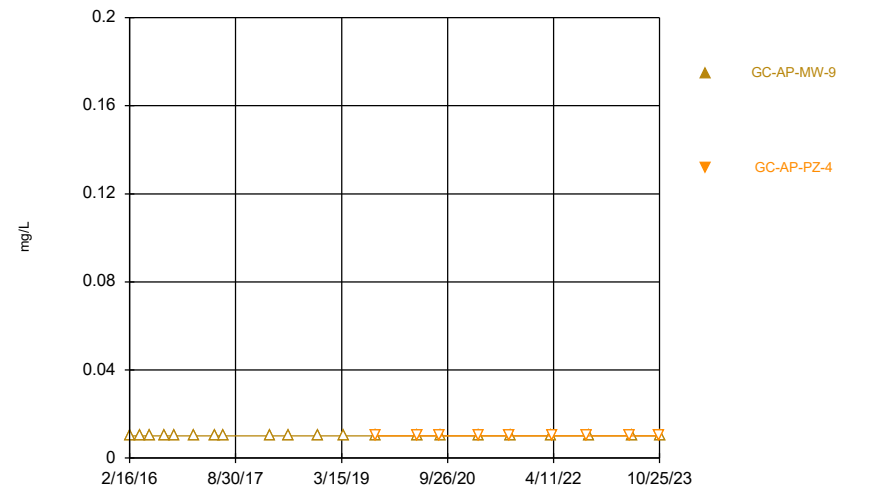
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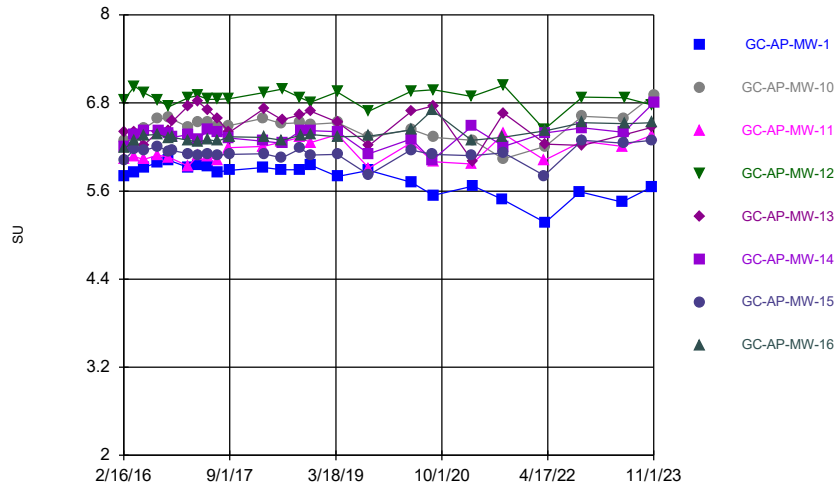
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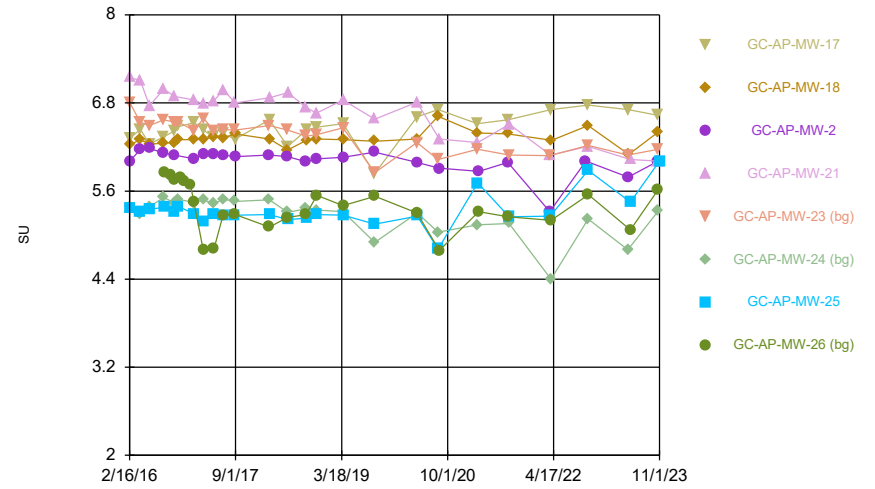
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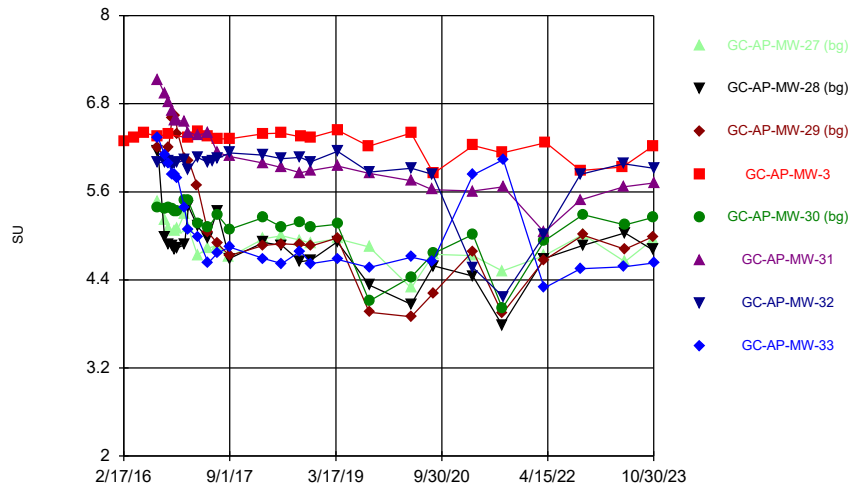
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### Time Series



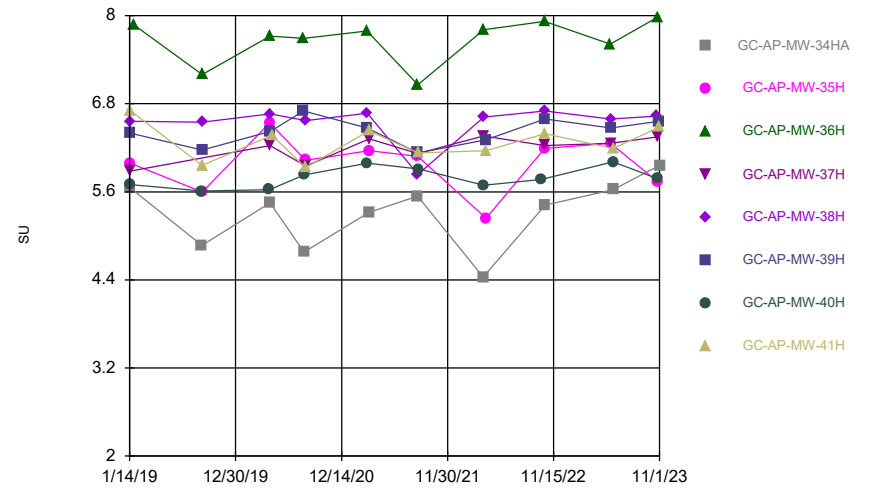
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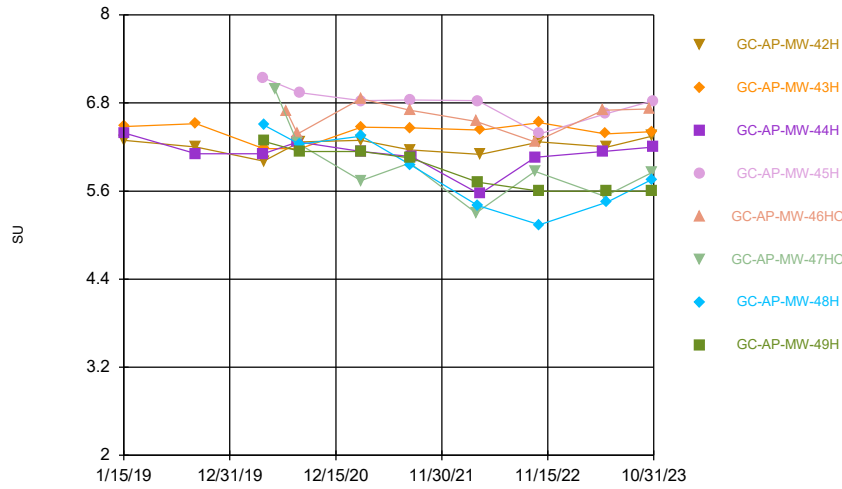
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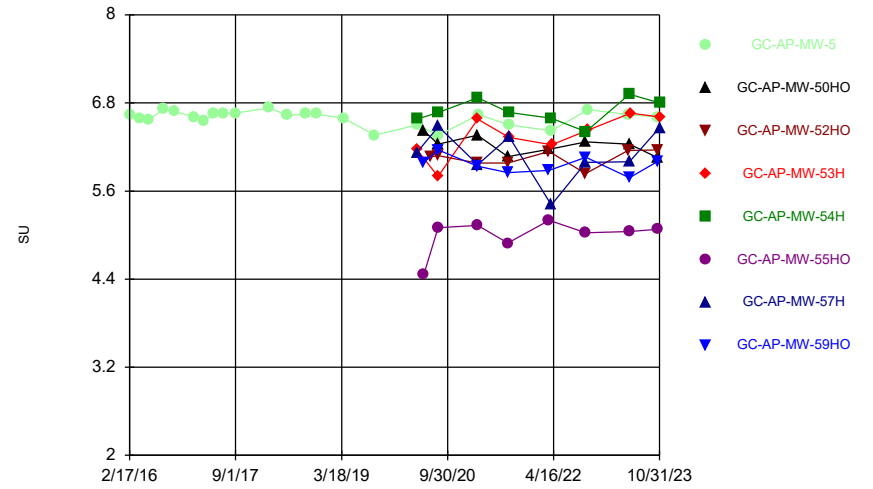


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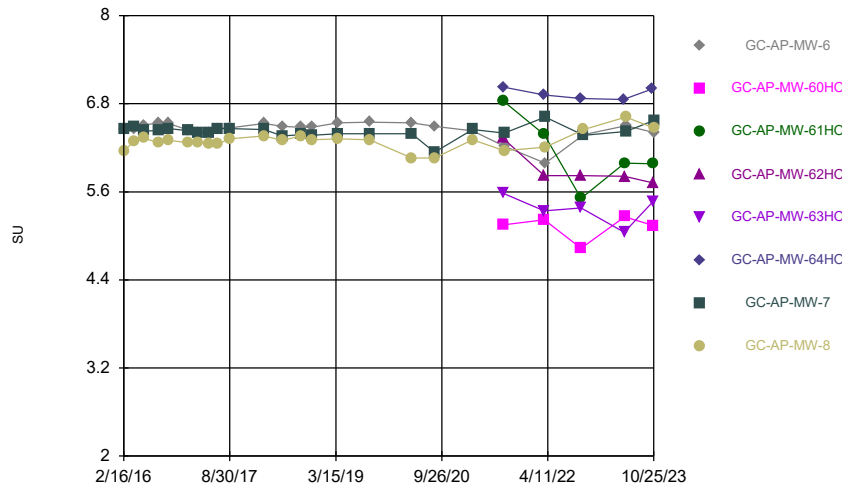
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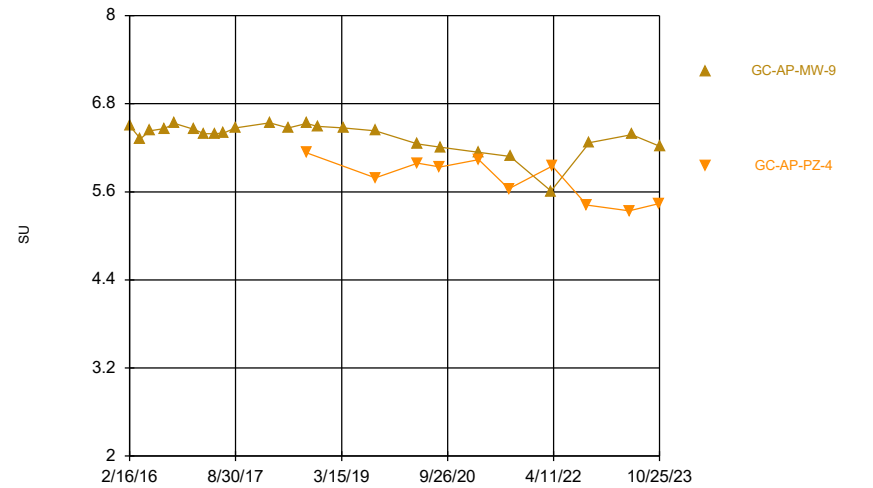
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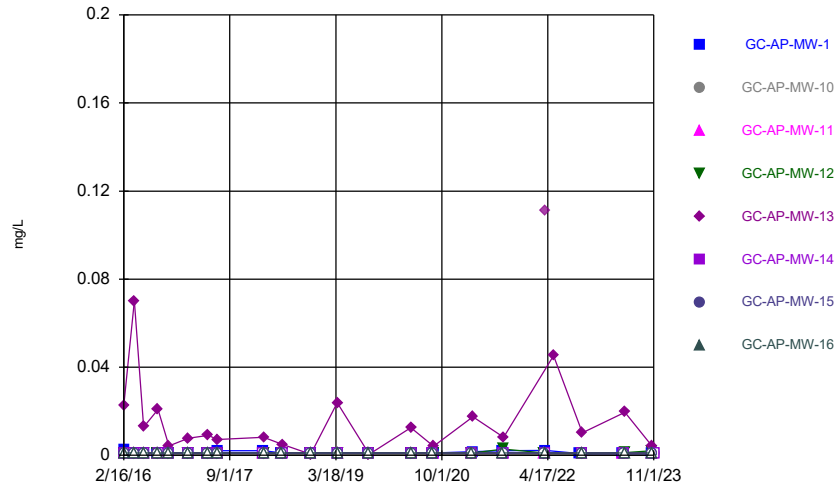
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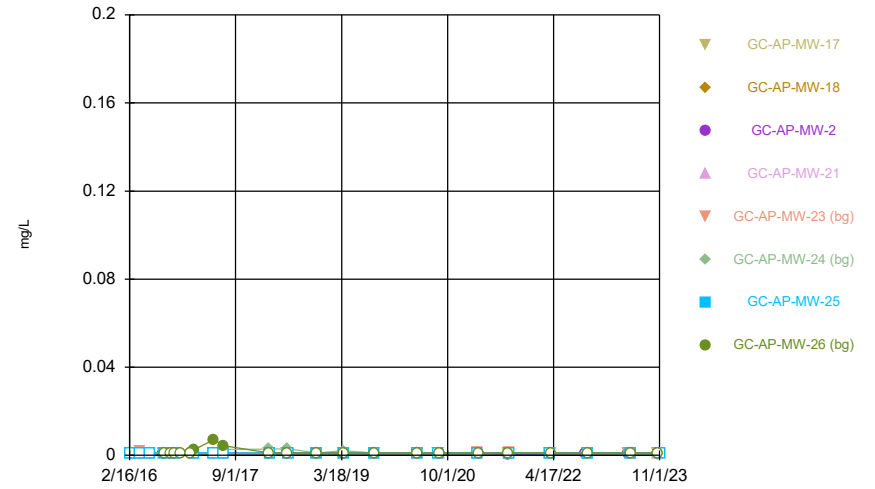
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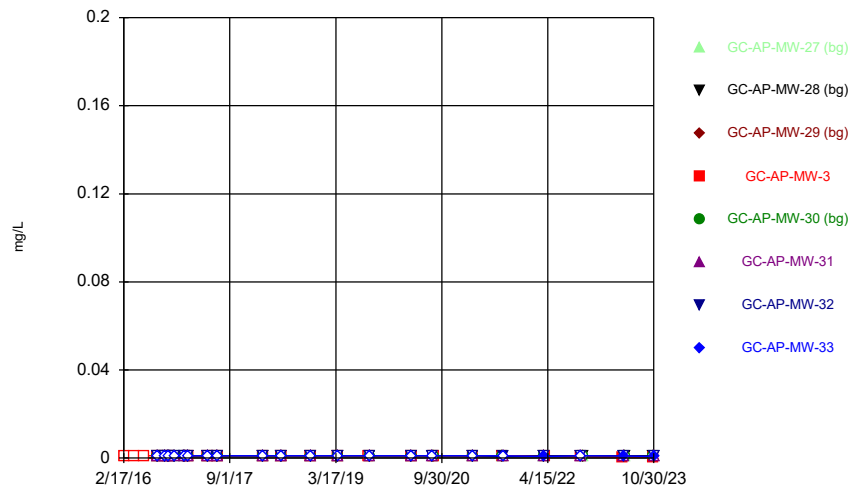
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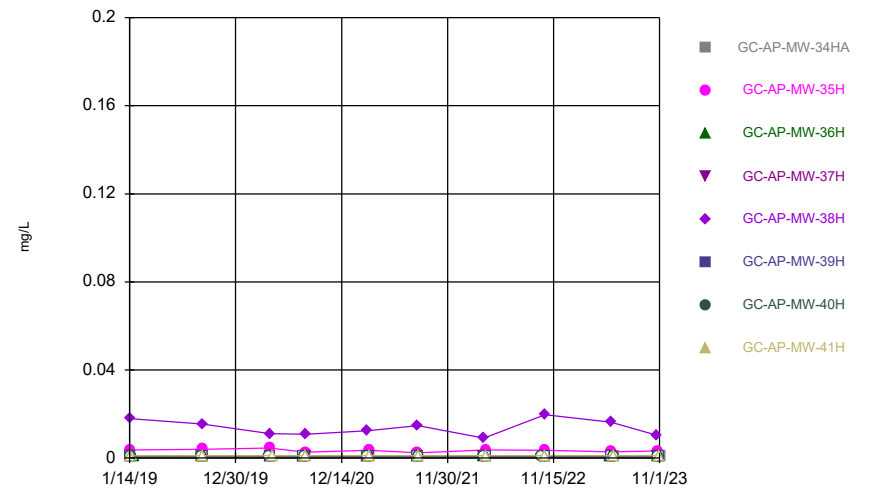
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Time Series



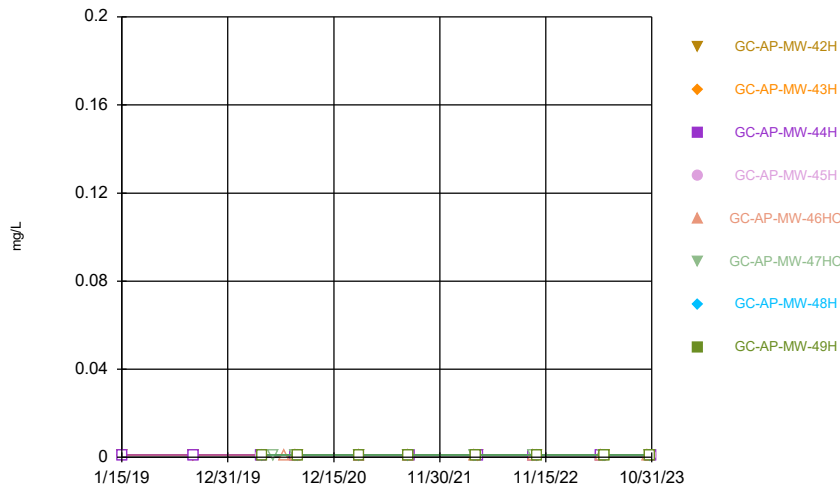
Constituent: Seleniun Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

Time Series



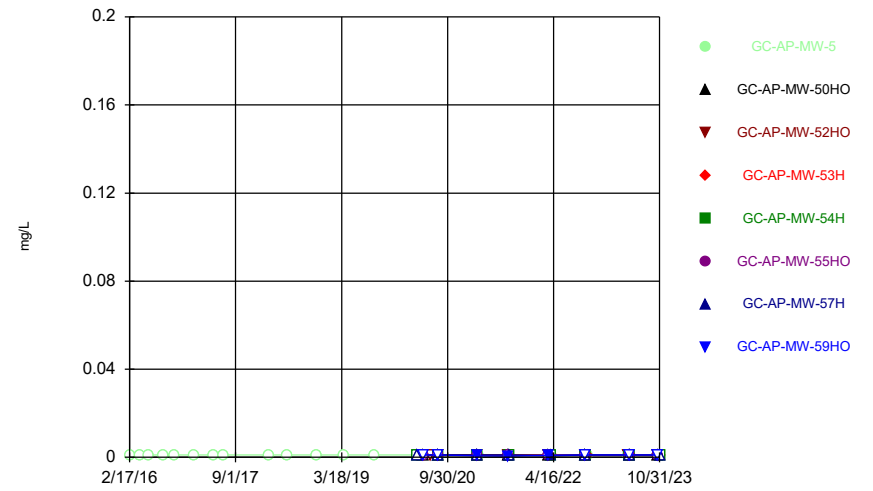
Constituent: Seleniun Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



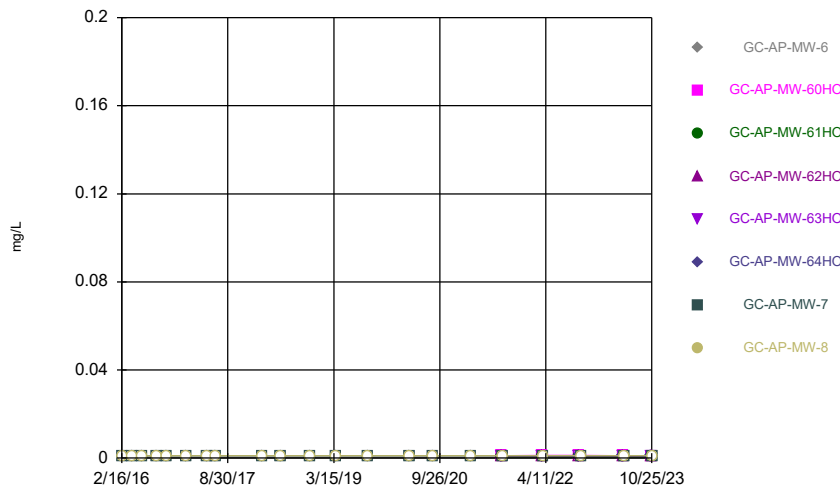
Constituent: Selenium Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



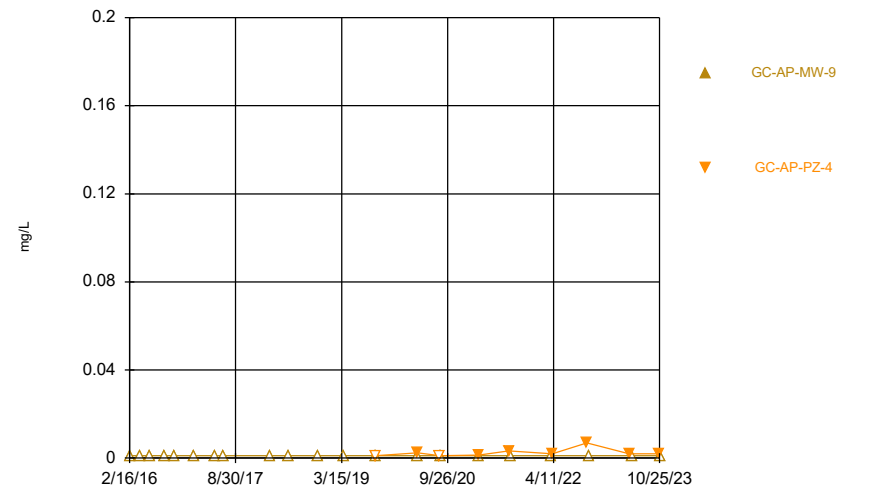
Constituent: Selenium Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



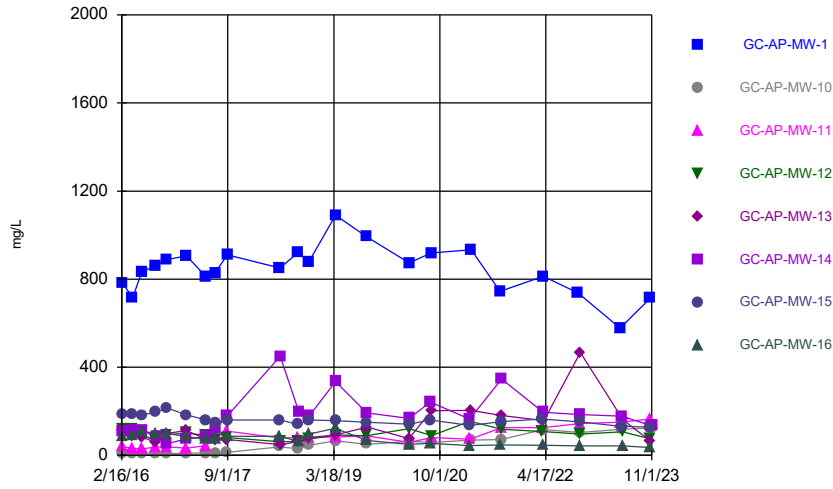
Constituent: Selenium Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



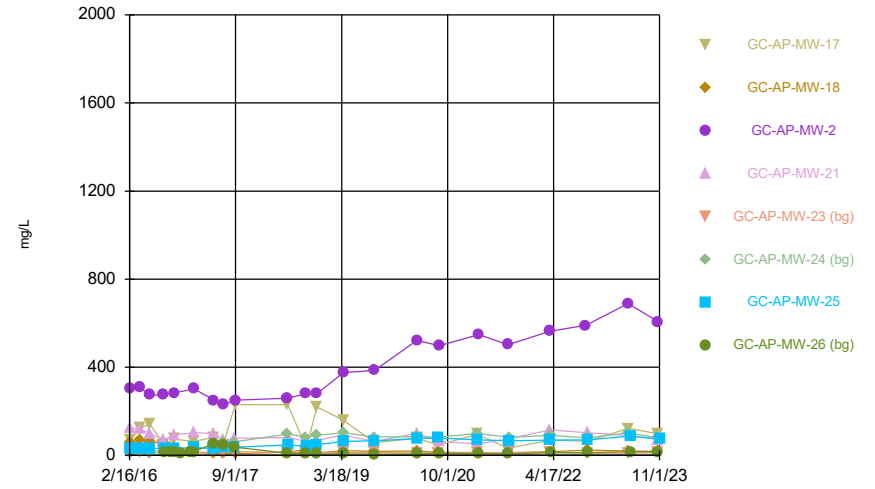
Constituent: Selenium Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



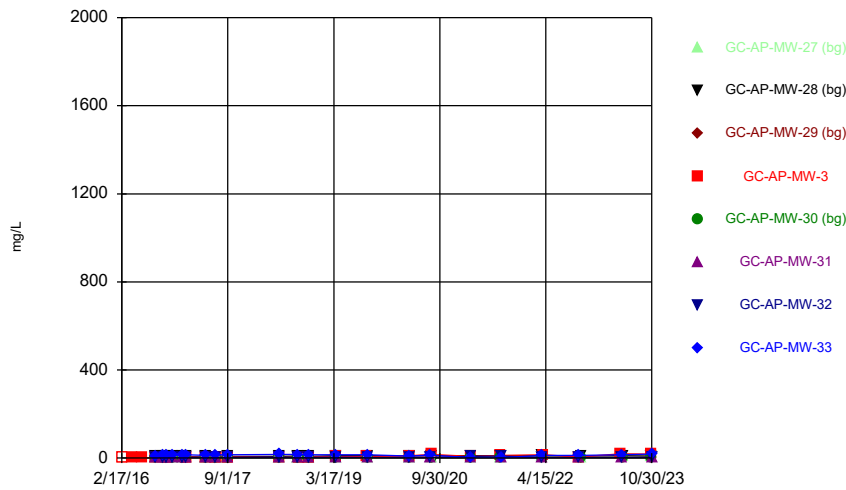
Constituent: Sulfate Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



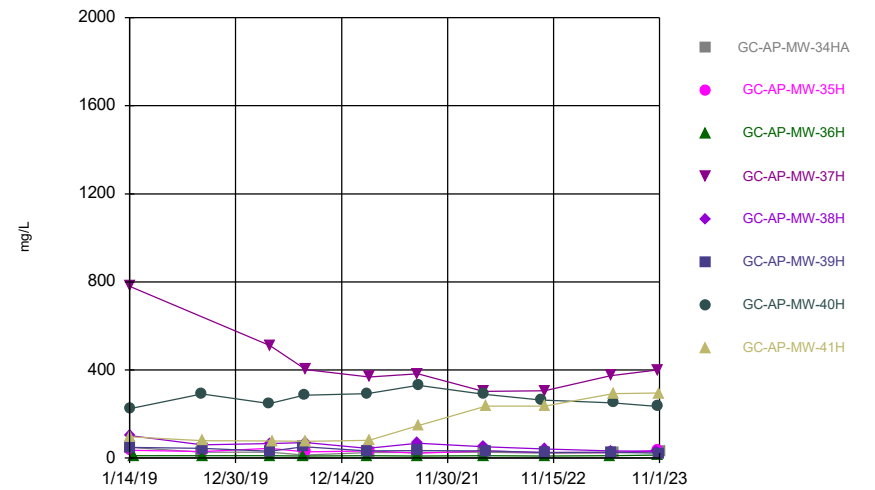
Constituent: Sulfate Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



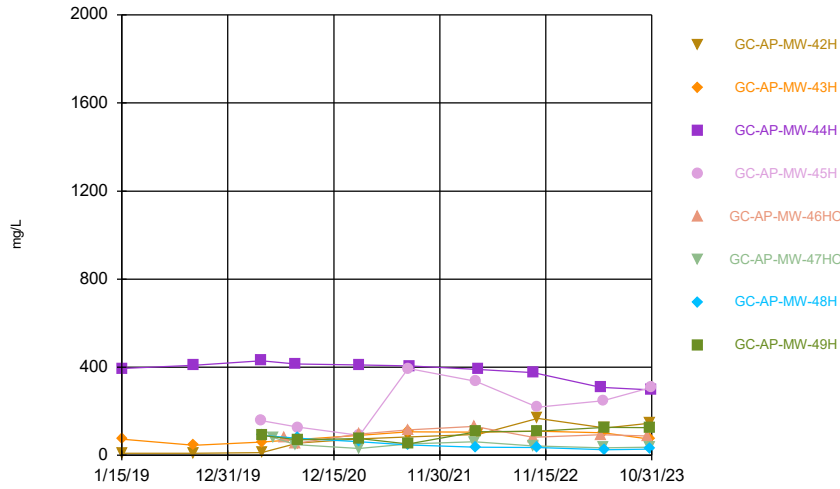
Constituent: Sulfate Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



Constituent: Sulfate Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

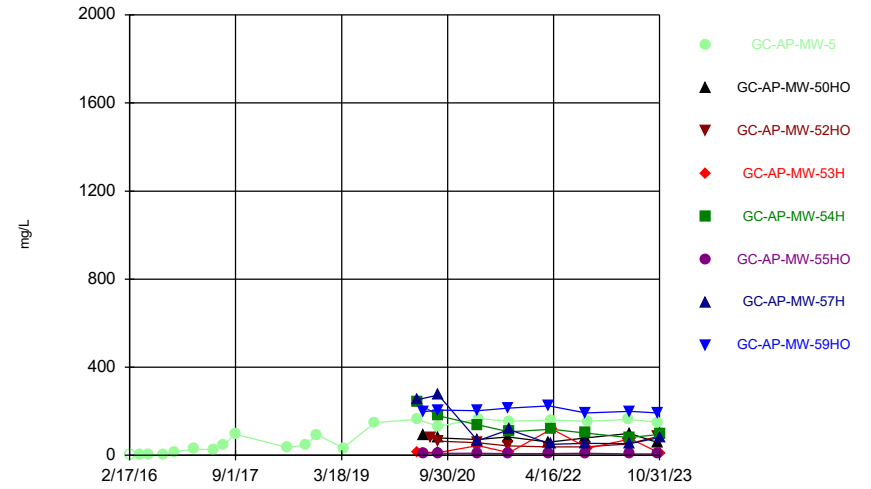
### Time Series



Constituent: Sulfate Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

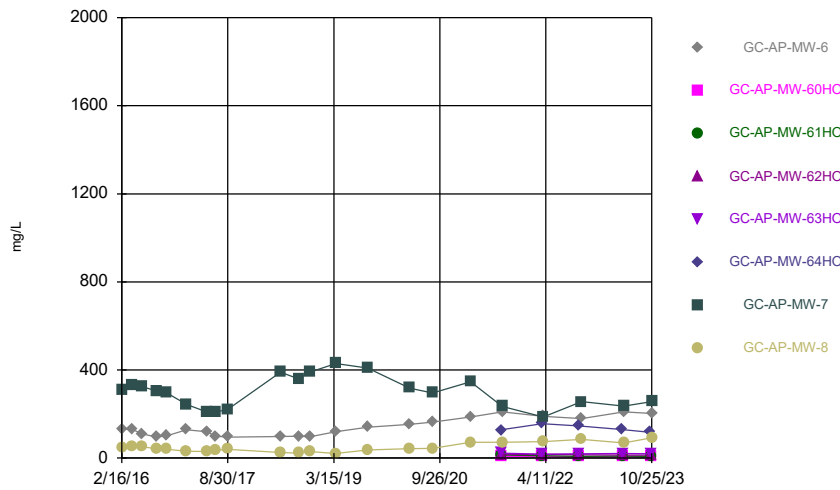
Hollow symbols indicate censored values.

### Time Series



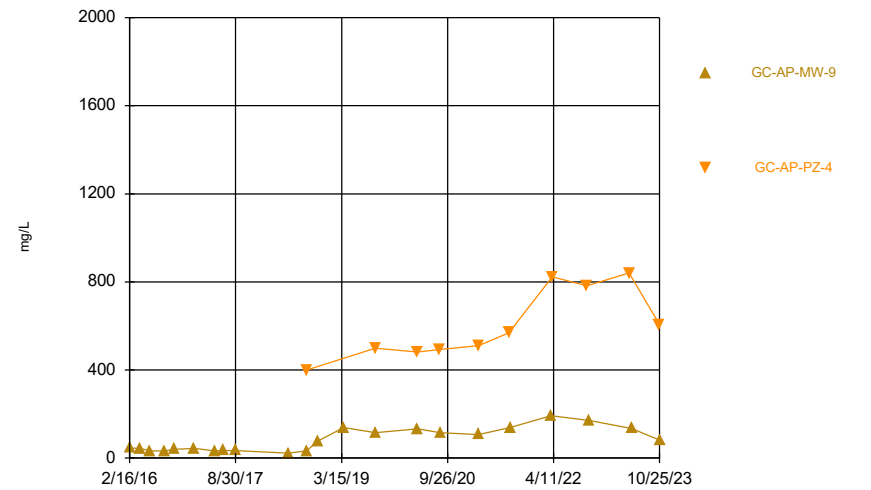
Constituent: Sulfate Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



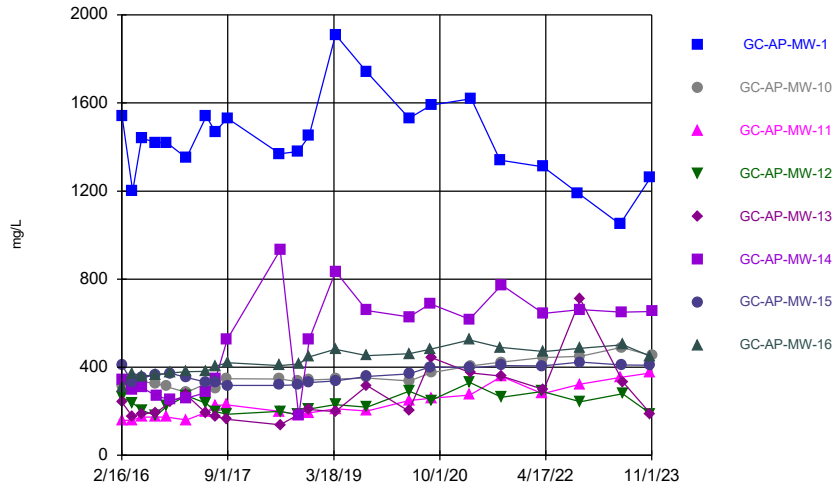
Constituent: Sulfate Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



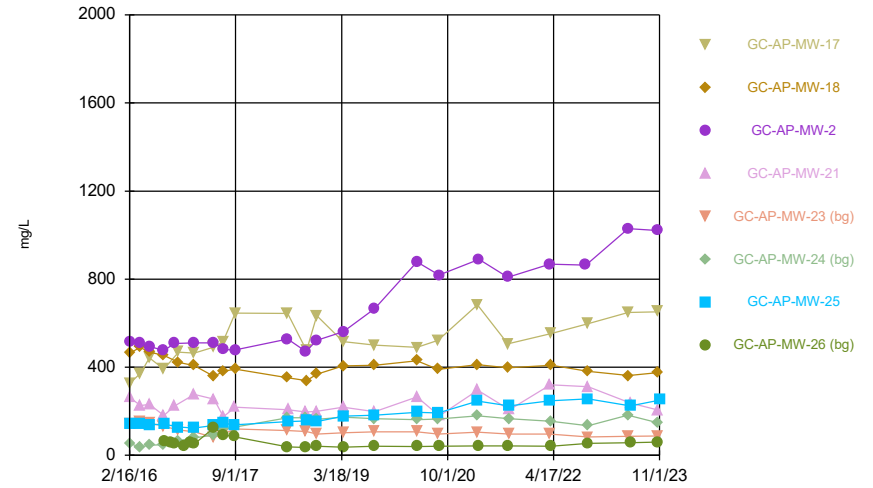
Constituent: Sulfate Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



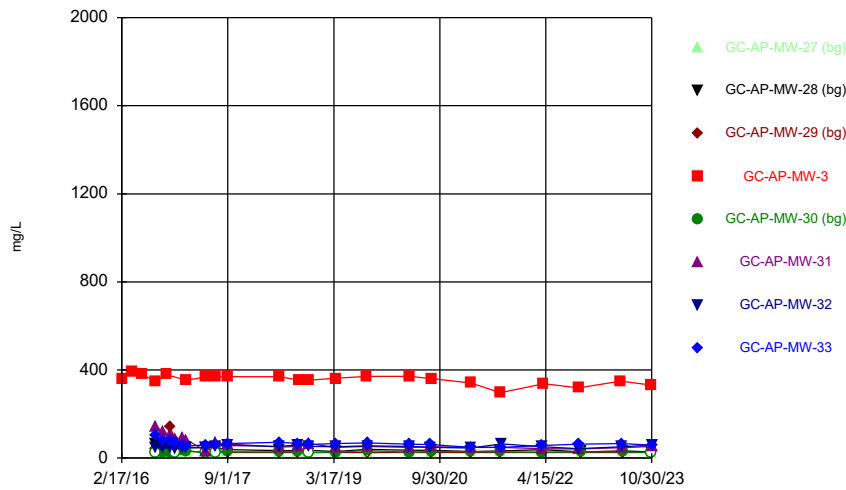
Constituent: TDS Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



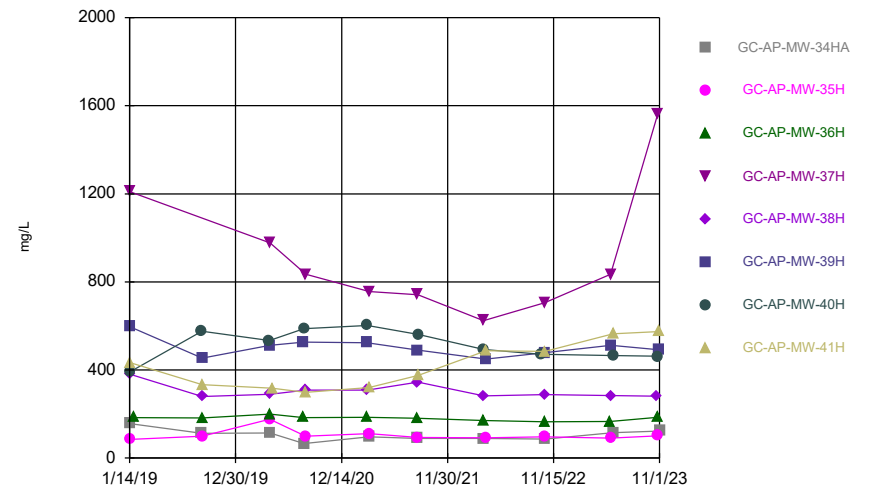
Constituent: TDS Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



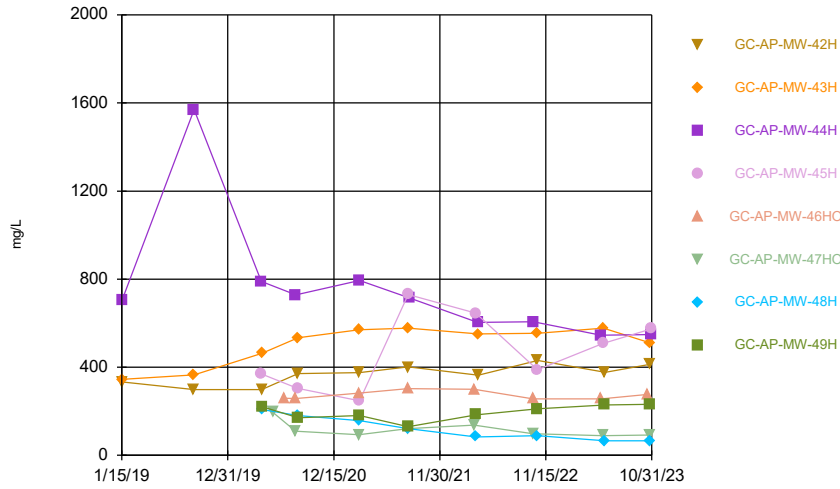
Constituent: TDS Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



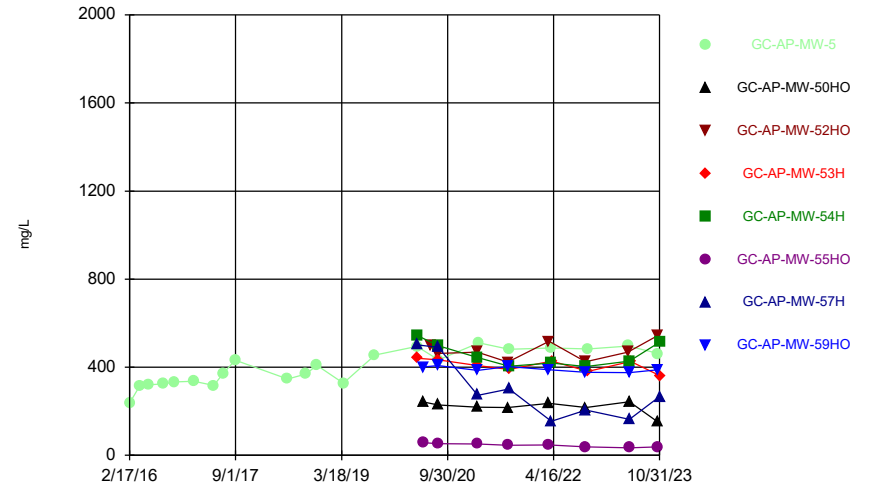
Constituent: TDS Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



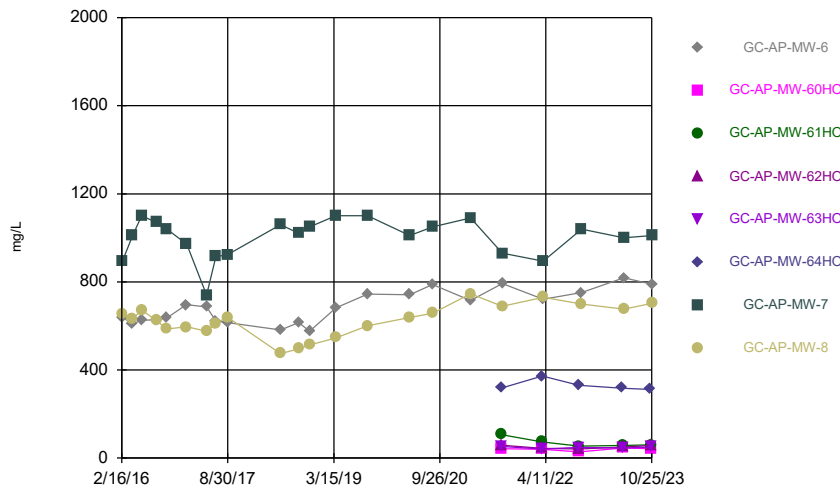
Constituent: TDS Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



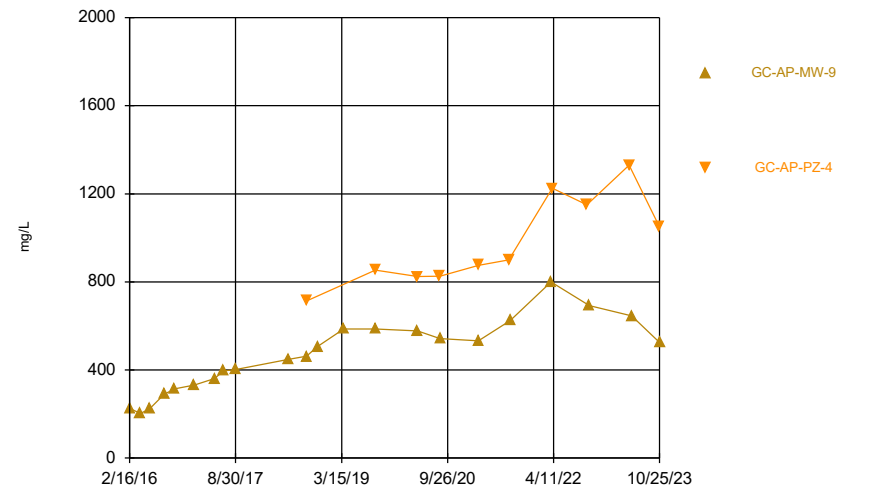
Constituent: TDS Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



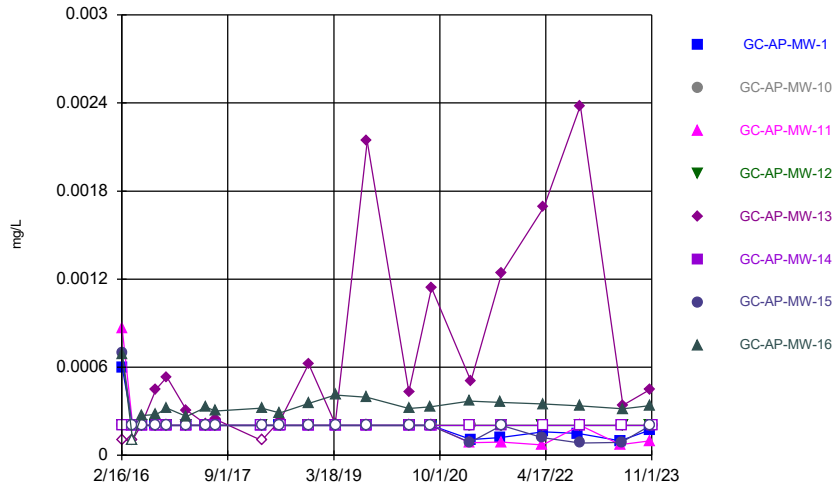
Constituent: TDS Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Time Series



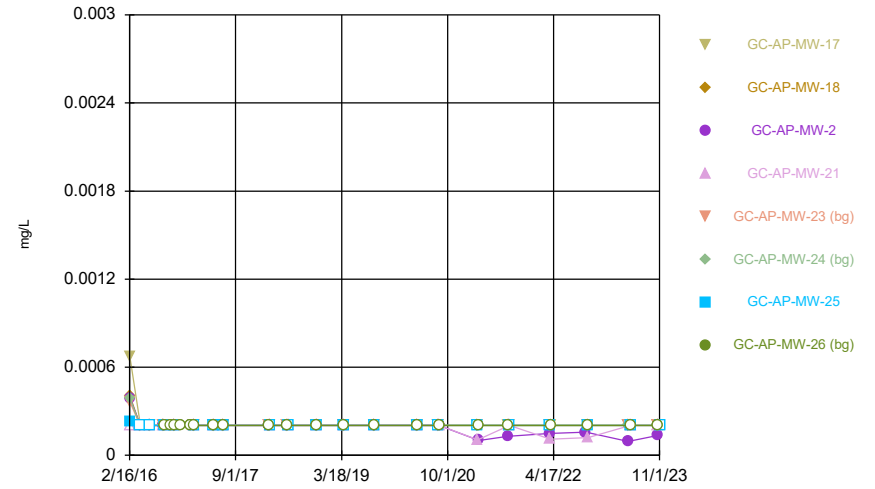
Constituent: TDS Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

Time Series



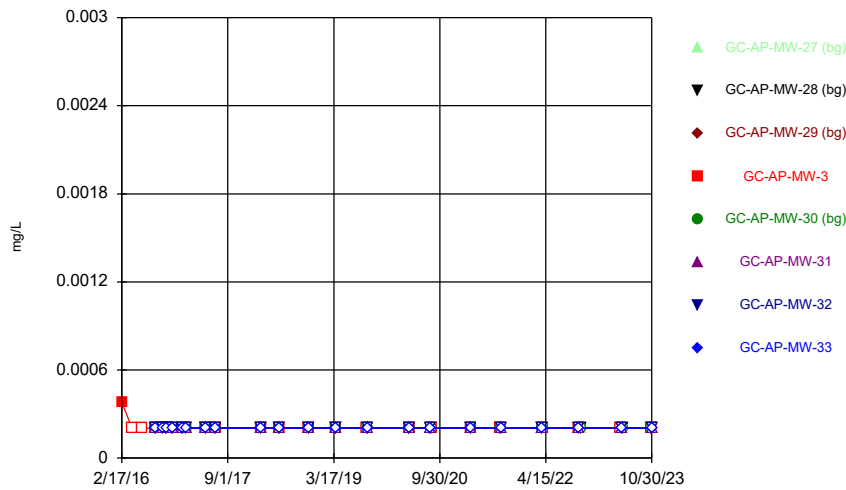
Constituent: Thallium Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

Time Series



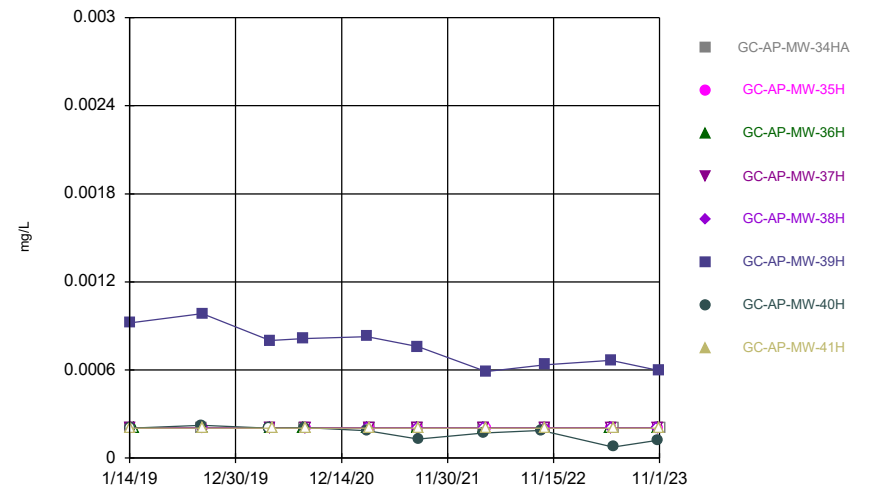
Constituent: Thallium Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

Time Series



Constituent: Thallium Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

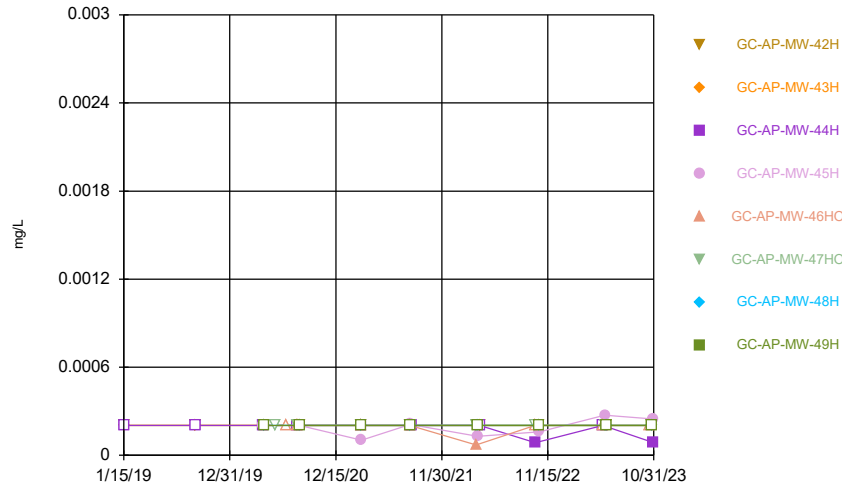
Time Series



Constituent: Thallium Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

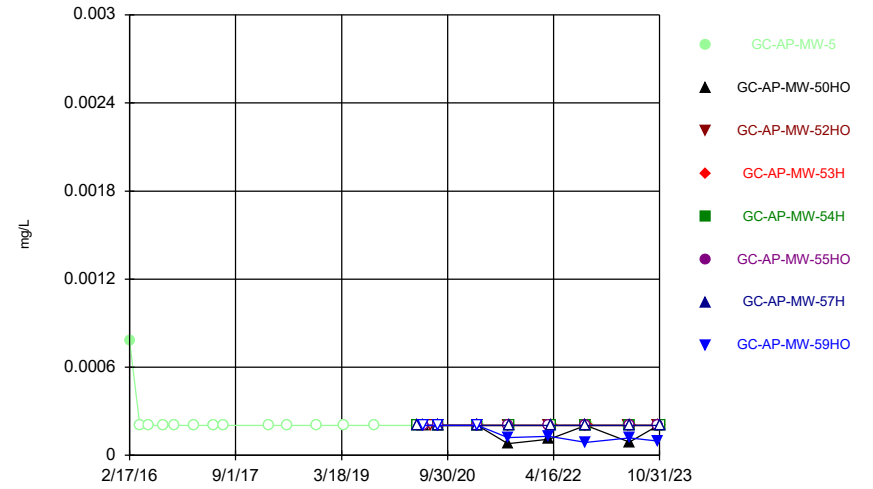


Time Series



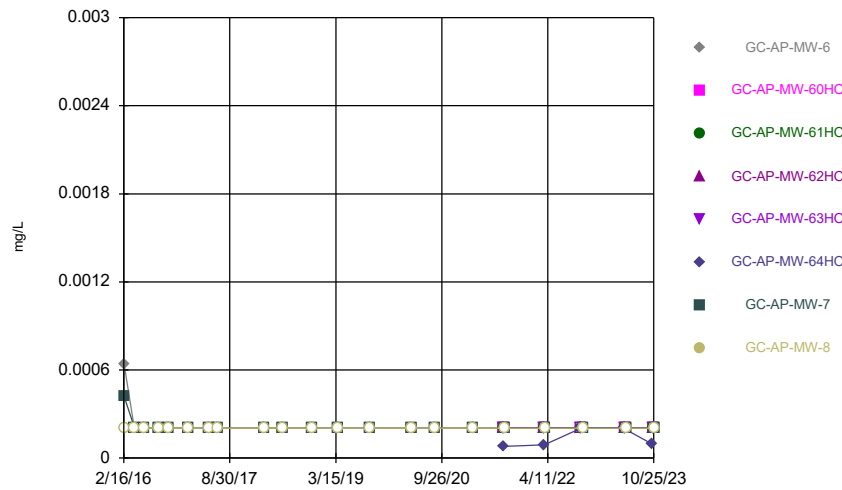
Constituent: Thallium Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

Time Series



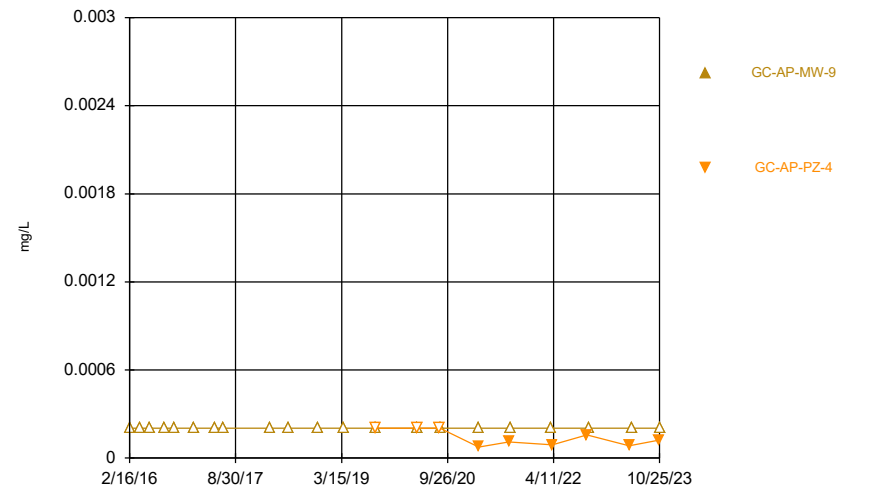
Constituent: Thallium Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

Time Series



Constituent: Thallium Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

Time Series



Constituent: Thallium Analysis Run 1/1/2024 4:43 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

# Time Series

Constituent: Antimony (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.000786 (J)		0.000933 (J)	0.000972 (J)	<0.001015		
2/17/2016	<0.001015		<0.001015				<0.001015	<0.001015
4/12/2016					<0.003	<0.001015	<0.001015	
4/13/2016	<0.001015	<0.001015	<0.001015	<0.001015				<0.001015
5/31/2016		<0.001015	<0.001015	0.000834 (J)	0.000869 (J)	0.00062 (J)	<0.001015	
6/1/2016	<0.001015							<0.001015
8/15/2016	<0.001015							<0.001015
8/16/2016		<0.001015	<0.001015	0.00118 (J)	0.00128 (J)		<0.001015	
8/17/2016						<0.001015		
10/11/2016	<0.001015						<0.001015	
10/12/2016		<0.001015	<0.001015	0.000899 (J)	0.00114 (J)	<0.001015		<0.001015
1/24/2017	0.000799 (J)						0.00111 (J)	0.000935 (J)
1/25/2017		0.00128 (J)	0.000896 (J)	0.00136 (J)	0.00384	0.00106 (J)		
5/9/2017	<0.001015		<0.001015	<0.001015	0.00323	<0.001015		
5/10/2017		<0.001015					<0.001015	<0.001015
6/27/2017	<0.001015						<0.001015	<0.001015
6/28/2017		<0.001015	<0.001015	0.000683 (J)	0.00406	<0.001015		
2/27/2018	<0.001015	<0.001015	<0.001015			<0.001015		
2/28/2018				0.000656 (J)	0.00199 (J)		<0.001015	<0.001015
6/4/2018	<0.001015							
6/5/2018		<0.001015	<0.001015				<0.001015	<0.001015
6/6/2018				<0.001015	0.00261 (J)	<0.001015		
11/5/2018			<0.001015	<0.001015	0.00275 (J)			
11/6/2018	<0.001015						<0.001015	<0.001015
11/7/2018		<0.001015				<0.001015		
3/26/2019				0.00121 (J)	0.00219 (J)		<0.001015	<0.001015
3/27/2019	<0.001015	<0.001015	<0.001015			<0.001015		
9/10/2019	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015
9/11/2019					0.00261 (J)			
4/20/2020					0.00338		<0.001015	<0.001015
4/21/2020	<0.001015			<0.001015		<0.001015		
4/22/2020		<0.001015	<0.001015					
8/11/2020						<0.001015		<0.001015
8/12/2020							<0.001015	
8/17/2020	<0.001015							
8/18/2020		<0.001015	<0.001015	<0.001015	0.00388			
3/9/2021						<0.001015		<0.001015
3/10/2021			<0.001015	<0.001015			<0.001015	
3/15/2021		<0.001015			0.0016			
3/16/2021	<0.001015							
8/17/2021	<0.001015							<0.001015
8/24/2021		<0.001015						
8/25/2021			<0.001015	<0.001015	0.00263	<0.001015	<0.001015	
3/29/2022				<0.001015			<0.001015	
3/30/2022			<0.001015					
4/4/2022	<0.001015	<0.001015				<0.001015		
4/6/2022					0.002			<0.001015
10/5/2022	<0.001015							
10/17/2022			<0.001015	<0.001015	0.002			
10/18/2022		<0.001015				<0.001015	<0.001015	<0.001015
5/16/2023	<0.001015							
5/17/2023			<0.001015					

# Time Series

Constituent: Antimony (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							<0.001015	
5/24/2023		<0.001015				<0.001015		
5/30/2023				<0.001015				
5/31/2023					0.00192			<0.001015
10/24/2023	<0.001015						<0.001015	
10/25/2023			<0.001015	0.000815 (J)	0.00161			<0.001015
11/1/2023		<0.001015				<0.001015		

# Time Series

Constituent: Antimony (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.001015				
2/17/2016	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	
4/12/2016		<0.001015			<0.001015	<0.001015	<0.001015	
4/13/2016	<0.001015		<0.001015	<0.001015				
6/1/2016	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
8/15/2016	<0.001015	<0.001015	<0.001015					
8/16/2016				<0.001015	<0.001015	<0.001015		
8/17/2016							<0.001015	<0.001015
9/20/2016								<0.001015
10/11/2016			<0.001015		<0.001015	<0.001015	<0.001015	
10/12/2016	<0.001015	<0.001015		<0.001015				<0.001015
11/15/2016								<0.001015
1/4/2017								<0.001015
1/23/2017								0.001 (J)
1/24/2017	0.000997 (J)	0.000984 (J)	0.00084 (J)		0.000886 (J)	0.000858 (J)	0.00111 (J)	
1/25/2017				0.00107 (J)				
5/9/2017			<0.001015	<0.001015	<0.001015		<0.001015	<0.001015
5/10/2017	<0.001015	<0.001015				<0.001015		
6/27/2017	<0.001015	<0.001015			<0.001015			<0.001015
6/28/2017			<0.001015	<0.001015		<0.001015	<0.001015	
2/27/2018			<0.001015		<0.001015	<0.001015		<0.001015
2/28/2018	<0.001015	<0.001015		<0.001015			<0.001015	
6/4/2018			<0.001015					
6/5/2018	<0.001015	<0.001015			<0.001015	<0.001015		<0.001015
6/6/2018				<0.001015			<0.001015	
11/5/2018				<0.001015				
11/6/2018	<0.001015	<0.001015	<0.001015				<0.001015	<0.001015
11/7/2018					<0.001015	<0.001015		
3/26/2019	0.000897 (J)	<0.001015		0.000964 (J)	<0.001015	<0.001015		<0.001015
3/27/2019			<0.001015				<0.001015	
9/9/2019	<0.001015	<0.001015	<0.001015					
9/10/2019				<0.001015	<0.001015	<0.001015	<0.001015	
9/11/2019								<0.001015
4/21/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015			<0.001015
4/22/2020						<0.001015	<0.001015	
8/11/2020	<0.001015						<0.001015	
8/12/2020		<0.001015			<0.001015	<0.001015		
8/17/2020			<0.001015					
8/18/2020				<0.001015				<0.001015
3/9/2021	<0.001015	<0.001015						
3/10/2021				<0.001015	<0.001015	<0.001015	<0.001015	
3/15/2021								<0.001015
3/16/2021			<0.001015					
8/17/2021	<0.001015	<0.001015	<0.001015					
8/18/2021								<0.001015
8/24/2021					<0.001015	<0.001015	<0.001015	
8/25/2021				<0.001015				
3/28/2022			<0.001015		<0.001015			
3/29/2022							<0.001015	
3/30/2022				<0.001015				
4/4/2022	<0.001015					<0.001015		<0.001015
4/6/2022		<0.001015						

# Time Series

Constituent: Antimony (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			<0.001015					
10/17/2022		<0.001015		<0.001015	<0.001015	<0.001015		
10/18/2022	<0.001015						<0.001015	
10/19/2022								<0.001015
5/16/2023					<0.001015	<0.001015		
5/17/2023	<0.001015		<0.001015					
5/22/2023		<0.001015						
5/30/2023				<0.001015			<0.001015	<0.001015
10/23/2023	<0.001015	<0.001015						
10/24/2023			<0.001015					<0.001015
10/25/2023				<0.001015	<0.001015	<0.001015		
11/1/2023							<0.001015	

# Time Series

Constituent: Antimony (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.001015			
4/12/2016				<0.001015			
6/1/2016				<0.001015			
8/15/2016				<0.001015			
8/16/2016			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
8/17/2016	<0.001015	<0.001015					
9/19/2016					<0.001015	<0.001015	<0.001015
9/20/2016	<0.001015	<0.001015	<0.001015	<0.001015			
10/11/2016			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/12/2016	<0.001015	<0.001015					
11/14/2016					<0.001015	<0.001015	<0.001015
11/15/2016	<0.001015	<0.001015	<0.001015	<0.001015			
1/3/2017					<0.001015	<0.001015	<0.001015
1/4/2017	<0.001015	<0.001015	<0.001015	<0.001015			
1/23/2017	0.00083 (J)			0.000701 (J)			
1/24/2017		0.00096 (J)	0.000906 (J)		0.000928 (J)	0.00091 (J)	
1/25/2017							0.00112 (J)
1/26/2017			0.00092 (J)				
5/9/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
5/10/2017					<0.001015	<0.001015	<0.001015
6/27/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/28/2017				<0.001015			
2/27/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/4/2018				<0.001015			
6/5/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
11/5/2018						<0.001015	
11/6/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
3/26/2019	0.00137 (J)	0.000975 (J)	<0.001015	0.000854 (J)			
3/27/2019				<0.001015	<0.001015	<0.001015	<0.001015
9/9/2019				<0.001015			
9/11/2019	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
4/20/2020				<0.001015			
4/21/2020	<0.001015	<0.001015	<0.001015	<0.001015			
4/22/2020					<0.001015	<0.001015	<0.001015
8/11/2020					<0.001015		
8/12/2020						<0.001015	<0.001015
8/17/2020				<0.001015			
8/18/2020	<0.001015	<0.001015	<0.001015	<0.001015			
3/15/2021	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
3/16/2021				<0.001015			
8/17/2021				<0.001015			
8/18/2021	<0.001015	<0.001015	<0.001015	<0.001015			
8/23/2021					<0.001015	<0.001015	<0.001015
3/28/2022	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
4/5/2022				<0.001015			
10/5/2022				<0.001015	<0.001015	<0.001015	<0.001015
10/19/2022	<0.001015	<0.001015	<0.001015	<0.001015			
5/17/2023				<0.001015			
5/22/2023						<0.001015	<0.001015
5/23/2023					<0.001015		
5/30/2023	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
10/24/2023	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		

# Time Series

Constituent: Antimony (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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10/30/2023	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
					<0.001015	<0.001015	<0.001015

# Time Series

Constituent: Antimony (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.001015			
1/15/2019				<0.001015		<0.001015	<0.001015	<0.001015
1/16/2019		<0.001015						
1/17/2019	<0.001015							
1/30/2019			<0.001015					
9/10/2019	<0.001015						<0.001015	
9/11/2019		<0.001015	<0.001015		<0.001015	<0.001015		<0.001015
4/20/2020							<0.001015	
4/21/2020		<0.001015						
4/22/2020	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015		
4/29/2020								<0.001015
8/11/2020			<0.001015			<0.001015		
8/12/2020	<0.001015						<0.001015	
8/18/2020		<0.001015						<0.001015
8/19/2020				<0.001015	<0.001015			
3/9/2021			<0.001015			<0.001015		
3/10/2021					<0.001015		<0.001015	
3/15/2021	<0.001015							<0.001015
3/16/2021		<0.001015		<0.001015				
8/23/2021	<0.001015							
8/24/2021		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
8/25/2021							<0.001015	<0.001015
3/28/2022	<0.001015							
3/29/2022				<0.001015				
3/30/2022			<0.001015		<0.001015		<0.001015	
4/6/2022		<0.001015				<0.001015		<0.001015
10/5/2022							<0.001015	
10/17/2022		<0.001015	<0.001015	<0.001015				
10/18/2022					<0.001015	<0.001015		<0.001015
10/19/2022	<0.001015							
5/22/2023			<0.001015					
5/23/2023		<0.001015		<0.001015	<0.001015			
5/24/2023						<0.001015		
5/31/2023	<0.001015						<0.001015	<0.001015
10/23/2023					<0.001015			
10/24/2023		<0.001015					<0.001015	
10/25/2023			<0.001015	<0.001015				
10/31/2023						<0.001015		<0.001015
11/1/2023	<0.001015							



# Time Series

Constituent: Antimony (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.001015							
1/16/2019		<0.001015	<0.001015					
9/11/2019	<0.001015	<0.001015	<0.001015					
4/20/2020			<0.001015	<0.001015				
4/21/2020	<0.001015	<0.001015					<0.001015	<0.001015
5/28/2020						<0.001015		
7/6/2020				<0.001015				
8/11/2020				<0.001015	<0.001015			
8/12/2020			<0.001015					
8/17/2020				<0.001015			<0.001015	
8/19/2020	<0.001015	<0.001015						<0.001015
3/8/2021					<0.001015	<0.001015		
3/9/2021	<0.001015	<0.001015						
3/10/2021			<0.001015	<0.001015			<0.001015	<0.001015
8/17/2021					<0.001015	<0.001015		
8/18/2021	<0.001015	<0.001015		<0.001015			<0.001015	<0.001015
8/23/2021			<0.001015					
3/23/2022					<0.001015	<0.001015		
3/29/2022				<0.001015				
3/30/2022							<0.001015	<0.001015
4/4/2022			<0.001015					
4/6/2022	<0.001015	<0.001015						
10/4/2022					<0.001015	<0.001015		
10/5/2022			<0.001015					
10/18/2022				<0.001015			<0.001015	
10/19/2022	<0.001015	<0.001015						<0.001015
5/16/2023			<0.001015					
5/17/2023					<0.001015			
5/22/2023				<0.001015		<0.001015		
5/24/2023		<0.001015						
5/30/2023	<0.001015						<0.001015	<0.001015
10/18/2023					<0.001015			
10/24/2023						<0.001015		
10/25/2023	<0.001015	<0.001015					<0.001015	<0.001015
10/31/2023			<0.001015	<0.001015				

# Time Series

Constituent: Antimony (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.001015							
4/12/2016	<0.001015							
5/31/2016	<0.001015							
8/17/2016	<0.001015							
10/11/2016	<0.001015							
1/24/2017	0.000728 (J)							
5/9/2017	<0.001015							
6/28/2017	<0.001015							
2/27/2018	<0.001015							
6/5/2018	<0.001015							
11/6/2018	<0.001015							
3/27/2019	<0.001015							
9/11/2019	<0.001015							
4/20/2020				<0.001015	<0.001015		<0.001015	
4/21/2020	<0.001015							
5/28/2020		<0.001015				<0.001015		<0.001015
7/6/2020			<0.001015					
8/11/2020		<0.001015	<0.001015	<0.001015		<0.001015		<0.001015
8/12/2020	<0.001015				<0.001015		<0.001015	
3/8/2021		<0.001015	<0.001015					
3/9/2021						<0.001015		<0.001015
3/10/2021				<0.001015	<0.001015		<0.001015	
3/16/2021	<0.001015							
8/16/2021			<0.001015					
8/17/2021		<0.001015				<0.001015		<0.001015
8/23/2021	<0.001015			<0.001015	<0.001015		<0.001015	
3/23/2022		<0.001015	<0.001015			<0.001015		<0.001015
4/4/2022	<0.001015							
4/5/2022					<0.001015		<0.001015	
4/6/2022				<0.001015				
10/3/2022			<0.001015					
10/4/2022		<0.001015				<0.001015		<0.001015
10/5/2022					<0.001015		<0.001015	
10/17/2022	<0.001015			<0.001015				
5/15/2023			<0.001015					
5/17/2023	<0.001015							
5/23/2023		<0.001015			<0.001015	<0.001015	<0.001015	<0.001015
5/30/2023				<0.001015				
10/18/2023			<0.001015					
10/24/2023	<0.001015	<0.001015				<0.001015		<0.001015
10/31/2023				<0.001015	<0.001015		<0.001015	

# Time Series

Constituent: Antimony (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

Date	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.001015
2/17/2016	<0.001015						<0.001015	
4/12/2016	<0.001015							
4/13/2016							<0.001015	<0.001015
5/31/2016	<0.001015						<0.001015	
6/1/2016								<0.001015
8/17/2016	<0.001015						<0.001015	<0.001015
10/11/2016	<0.001015							
10/12/2016							<0.001015	<0.001015
1/24/2017	0.000792 (J)							
1/25/2017							0.000839 (J)	0.000833 (J)
5/10/2017	<0.001015						<0.001015	<0.001015
6/28/2017	<0.001015						<0.001015	<0.001015
2/27/2018	<0.001015						<0.001015	<0.001015
6/5/2018	<0.001015						<0.001015	<0.001015
11/7/2018	<0.001015						<0.001015	<0.001015
3/26/2019	0.00141 (J)						<0.001015	<0.001015
9/10/2019	<0.001015						<0.001015	<0.001015
4/21/2020	<0.001015						<0.001015	<0.001015
8/19/2020	<0.001015						<0.001015	<0.001015
3/9/2021	<0.001015						<0.001015	<0.001015
8/17/2021		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
8/24/2021	<0.001015						0.00075 (J)	<0.001015
3/23/2022		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
3/29/2022	<0.001015						0.00066 (J)	<0.001015
10/4/2022		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
10/18/2022	<0.001015						<0.001015	<0.001015
5/17/2023							<0.001015	
5/22/2023				<0.001015	<0.001015			
5/23/2023		<0.001015	<0.001015					
5/30/2023	<0.001015						<0.001015	<0.001015
10/18/2023							<0.001015	
10/23/2023				<0.001015	<0.001015			
10/24/2023		<0.001015	<0.001015					
10/25/2023	<0.001015						<0.001015	<0.001015

# Time Series

Constituent: Antimony (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.001015	
4/13/2016	<0.001015	
6/1/2016	<0.001015	
8/17/2016	<0.001015	
10/12/2016	<0.001015	
1/25/2017	0.000847 (J)	
5/10/2017	<0.001015	
6/28/2017	<0.001015	
2/27/2018	<0.001015	
6/5/2018	<0.001015	
11/7/2018	<0.001015	
3/26/2019	<0.001015	
9/10/2019	<0.001015	<0.001015
4/20/2020		<0.001015
4/21/2020	<0.001015	
8/17/2020		<0.001015
8/18/2020	<0.001015	
3/9/2021	<0.001015	
3/10/2021		<0.001015
8/17/2021		<0.001015
8/24/2021	<0.001015	
3/29/2022	<0.001015	
4/5/2022		<0.001015
10/5/2022		<0.001015
10/18/2022	<0.001015	
5/17/2023		<0.001015
5/30/2023	<0.001015	
10/24/2023		<0.001015
10/25/2023	<0.001015	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.0123		<0.000203	0.0141	0.0202		
2/17/2016	0.0181		0.00437 (J)				<0.000203	0.0788
4/12/2016					0.0144	0.0214	<0.000203	
4/13/2016	0.0178	0.0143	0.00695	<0.000203				0.0759
5/31/2016		0.0125	0.0063	<0.000203	0.00984	0.0156	<0.000203	
6/1/2016	0.016							0.292
8/15/2016	0.0182							0.105
8/16/2016		0.0128	0.0068	<0.000203	0.0126		<0.000203	
8/17/2016						0.0153		
10/11/2016	0.0186						<0.000203	
10/12/2016		0.0145	0.00709	<0.000203	0.0117	0.0254		0.0831
1/24/2017	0.0173						<0.000203	0.0472
1/25/2017		0.0122	0.00718	<0.000203	0.00316 (J)	0.0194		
5/9/2017	0.0176		0.00819	<0.000203	0.00393 (J)	0.0361		
5/10/2017		0.0135					<0.000203	0.0814
6/27/2017	0.0165						<0.000203	0.0693
6/28/2017		0.0131	0.00664	<0.000203	0.00406 (J)	0.022		
2/27/2018	0.0201	0.0146	0.00733			0.0265		
2/28/2018				<0.000203	0.00278 (J)		<0.000203	0.0852
6/4/2018	0.0195							
6/5/2018		0.0233	0.00637				<0.000203	0.0648
6/6/2018				<0.000203	0.00352 (J)	0.0372		
11/5/2018			0.00195 (J)	<0.000203	0.00497 (J)			
11/6/2018	0.0189						<0.000203	0.0701
11/7/2018		0.0152				0.0289		
3/26/2019				<0.000203	0.00251 (J)		<0.000203	0.0952
3/27/2019	0.0267	0.014	0.00573			0.0264		
9/10/2019	0.0226	0.0132	0.00378 (J)	<0.000203		0.0263	<0.000203	0.0786
9/11/2019					0.00664			
4/20/2020					0.00181 (J)		<0.000203	0.105
4/21/2020	0.0219			<0.000203		0.0178		
4/22/2020		0.0121	0.00616					
8/11/2020						0.0207		0.0698
8/12/2020							<0.000203	
8/17/2020	0.0265							
8/18/2020		0.0121	0.00457 (J)	<0.000203	0.00176 (J)			
3/9/2021						0.0292		0.113
3/10/2021			0.00317	0.000251			0.000349	
3/15/2021		0.0125			0.00207			
3/16/2021	0.0238							
8/17/2021	0.0206							0.0765
8/24/2021		0.0129						
8/25/2021			0.00518	0.00023	0.00302	0.0224	0.00046	
3/29/2022				0.00023			0.00032	
3/30/2022			0.00097					
4/4/2022	0.0164	0.0117				0.0241		
4/6/2022					0.00261			0.078
10/5/2022	0.0152							
10/17/2022			0.00251	0.000335	0.00397			
10/18/2022		0.0117				0.0269	0.000379	0.0653
5/16/2023	0.012							
5/17/2023			0.00314					

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							0.000389	
5/24/2023		0.0123				0.0277		
5/30/2023				0.00029				
5/31/2023					0.00639			0.0855
10/24/2023	0.0152						0.000448	
10/25/2023			0.0049	0.000274	0.0195			0.058
11/1/2023		0.013				0.0298		

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.000203				
2/17/2016	0.177	0.133	0.0142		<0.000203	<0.000203	<0.000203	
4/12/2016		0.134			<0.000203	<0.000203	<0.000203	
4/13/2016	0.271		0.0145	<0.000203				
6/1/2016	0.251	0.11	0.0112	<0.000203	<0.000203	<0.000203	<0.000203	
8/15/2016	0.253	0.116	0.0154					
8/16/2016				<0.000203	<0.000203	<0.000203		
8/17/2016							<0.000203	0.0017 (J)
9/20/2016								0.00283 (J)
10/11/2016			0.0113		<0.000203	<0.000203	<0.000203	
10/12/2016	0.243	0.109		<0.000203				0.00218 (J)
11/15/2016								0.00124 (J)
1/4/2017								0.0028 (J)
1/23/2017								0.00257 (J)
1/24/2017	0.363	0.0825	0.0115		<0.000203	<0.000203	<0.000203	
1/25/2017				<0.000203				
5/9/2017			0.00989	<0.000203	<0.000203		<0.000203	0.00138 (J)
5/10/2017	0.499	0.0776				<0.000203		
6/27/2017	0.489	0.0672			<0.000203			<0.000203
6/28/2017			0.00848	<0.000203		<0.000203	<0.000203	
2/27/2018			0.0106		<0.000203	<0.000203		<0.000203
2/28/2018	0.532	0.063		<0.000203			<0.000203	
6/4/2018			0.0124					
6/5/2018	0.382	0.0661			<0.000203	<0.000203		<0.000203
6/6/2018				<0.000203			<0.000203	
11/5/2018				<0.000203				
11/6/2018	0.299	0.0509	0.0085				<0.000203	<0.000203
11/7/2018					<0.000203	<0.000203		
3/26/2019	0.32	0.0477		<0.000203	<0.000203	<0.000203		<0.000203
3/27/2019			0.0101				<0.000203	
9/9/2019	0.356	0.0498	0.022					
9/10/2019				<0.000203	<0.000203	<0.000203	<0.000203	
9/11/2019								<0.000203
4/21/2020	0.689	0.0478	0.013	<0.000203	<0.000203			<0.000203
4/22/2020						<0.000203	<0.000203	
8/11/2020	0.581						<0.000203	
8/12/2020		0.0485			<0.000203	<0.000203		
8/17/2020			0.00768					
8/18/2020				<0.000203				<0.000203
3/9/2021	0.86	0.0505						
3/10/2021				0.000216	<0.000203	0.00045	0.00033	
3/15/2021								0.000125 (J)
3/16/2021			0.0045					
8/17/2021	0.937	0.0509	0.00514					
8/18/2021								0.00016 (J)
8/24/2021					7E-05 (J)	0.00024	0.00028	
8/25/2021				0.00014 (J)				
3/28/2022			0.00381		<0.000203			
3/29/2022							0.00026	
3/30/2022				0.00017 (J)				
4/4/2022	0.861					0.00033		0.00011 (J)
4/6/2022		0.049						

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			0.00331					
10/17/2022		0.0475		0.000217	0.000111 (J)	0.000297		
10/18/2022	0.897						0.000434	
10/19/2022								0.000107 (J)
5/16/2023					<0.000203	0.000269		
5/17/2023	1.06		0.00431					
5/22/2023		0.0491						
5/30/2023				<0.000203			0.000217	<0.000203
10/23/2023	0.895	0.0517						
10/24/2023			0.00587					0.000115 (J)
10/25/2023				0.000132 (J)	<0.000203	0.000182 (J)		
11/1/2023							0.000183 (J)	



# Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				0.00668				
4/12/2016				0.00827				
6/1/2016				0.00768				
8/15/2016				0.00798				
8/16/2016			0.00199 (J)		<0.000203	0.00185 (J)	<0.000203	0.00122 (J)
8/17/2016	<0.000203	<0.000203						
9/19/2016						0.00121 (J)	<0.000203	<0.000203
9/20/2016	<0.000203	<0.000203	0.00155 (J)		<0.000203			
10/11/2016			0.00231 (J)	0.008	<0.000203	0.00111 (J)	<0.000203	<0.000203
10/12/2016	<0.000203	<0.000203						
11/14/2016						<0.000203	<0.000203	<0.000203
11/15/2016	<0.000203	<0.000203	0.0044 (J)		<0.000203			
1/3/2017						<0.000203	<0.000203	<0.000203
1/4/2017	<0.000203	<0.000203	0.00123 (J)		<0.000203			
1/23/2017	<0.000203				<0.000203			
1/24/2017		<0.000203		0.00722		<0.000203	<0.000203	
1/25/2017								<0.000203
1/26/2017			0.00169 (J)					
5/9/2017	<0.000203	<0.000203	<0.000203	0.00766	<0.000203			
5/10/2017						<0.000203	<0.000203	<0.000203
6/27/2017	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
6/28/2017				0.00745				
2/27/2018	<0.000203	<0.000203	<0.000203	0.00699	<0.000203	<0.000203	<0.000203	<0.000203
6/4/2018				0.00731				
6/5/2018	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
11/5/2018							<0.000203	
11/6/2018	<0.000203	<0.000203	<0.000203	0.00685	<0.000203	<0.000203		<0.000203
3/26/2019	<0.000203	<0.000203	<0.000203		<0.000203			
3/27/2019				0.00596		<0.000203	<0.000203	<0.000203
9/9/2019				0.00806				
9/11/2019	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
4/20/2020				0.00751				
4/21/2020	<0.000203	<0.000203	<0.000203		<0.000203			
4/22/2020						<0.000203	<0.000203	<0.000203
8/11/2020						<0.000203		
8/12/2020							<0.000203	<0.000203
8/17/2020				0.00909				
8/18/2020	<0.000203	<0.000203	<0.000203		<0.000203			
3/15/2021	<0.000203	<0.000203	<0.000203		<0.000203	0.000111 (J)	0.000142 (J)	<0.000203
3/16/2021				0.0112				
8/17/2021				0.0119				
8/18/2021	<0.000203	9E-05 (J)	9E-05 (J)		<0.000203			
8/23/2021						<0.000203	0.00019 (J)	<0.000203
3/28/2022	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	0.00015 (J)
4/5/2022				0.01				
10/5/2022				0.0119		<0.000203	<0.000203	8.1E-05 (J)
10/19/2022	<0.000203	<0.000203	<0.000203		<0.000203			
5/17/2023				0.0116				
5/22/2023							<0.000203	0.000242
5/23/2023						<0.000203		
5/30/2023	<0.000203	<0.000203	<0.000203		<0.000203			
10/24/2023	<0.000203	<0.000203	<0.000203	0.0121	<0.000203			

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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10/30/2023	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
					<0.000203	<0.000203	0.000169 (J)	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.000203			
1/15/2019				<0.000203		0.0514	<0.000203	0.002 (J)
1/16/2019		<0.000203						
1/17/2019	<0.000203							
1/30/2019			0.0034 (J)					
9/10/2019	<0.000203						<0.000203	
9/11/2019		<0.000203	0.00222 (J)		<0.000203	0.053		0.00208 (J)
4/20/2020							<0.000203	
4/21/2020		<0.000203						
4/22/2020	<0.000203		0.00168 (J)	0.00768	<0.000203	0.0533		
4/29/2020								0.00182 (J)
8/11/2020			0.00223 (J)			0.0635		
8/12/2020	<0.000203						<0.000203	
8/18/2020		<0.000203						0.00171 (J)
8/19/2020				0.00618	<0.000203			
3/9/2021			0.00291			0.0697		
3/10/2021					<0.000203		0.000443	
3/15/2021	0.000158 (J)							0.00174
3/16/2021		0.0001 (J)		0.00685				
8/23/2021	0.00042							
8/24/2021		0.0001 (J)	0.00235	0.00811	0.00012 (J)	0.069		
8/25/2021							0.00043	0.00182
3/28/2022	0.00013 (J)							
3/29/2022				0.011				
3/30/2022			0.00263		9E-05 (J)		0.00027	
4/6/2022		0.00013 (J)				0.0524		0.00197
10/5/2022							0.000232	
10/17/2022		0.000174 (J)	0.00202	0.00335				
10/18/2022					0.000208	0.0603		0.00204
10/19/2022	9.6E-05 (J)							
5/22/2023			0.00211					
5/23/2023		<0.000203		0.00924	0.000132 (J)			
5/24/2023						0.0595		
5/31/2023	<0.000203						0.000308	0.00185
10/23/2023					0.000304			
10/24/2023		<0.000203					0.000305	
10/25/2023			0.002	0.00561				
10/31/2023						0.0581		0.002
11/1/2023	0.000128 (J)							

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/1/2024 4:44 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	0.00372 (J)							
1/16/2019		0.00816	<0.000203					
9/11/2019	0.00583	0.0124	0.00269 (J)					
4/20/2020			0.00215 (J)	0.00153 (J)				
4/21/2020	0.00417 (J)	0.0101					0.0021 (J)	<0.000203
5/28/2020						<0.000203		
7/6/2020					<0.000203			
8/11/2020					<0.000203	<0.000203		
8/12/2020			0.00197 (J)					
8/17/2020				<0.000203			<0.000203	
8/19/2020	0.00445 (J)	0.0103						<0.000203
3/8/2021					0.000339	0.000152 (J)		
3/9/2021	0.00343	0.0117						
3/10/2021			0.00172	0.00147			0.000557	0.000592
8/17/2021					0.00027	0.00014 (J)		
8/18/2021	0.00456	0.0116		0.00143			0.00025	0.00074
8/23/2021			0.00263					
3/23/2022					0.00017 (J)	<0.000203		
3/29/2022				0.00106				
3/30/2022							0.00014 (J)	0.00041
4/4/2022			0.00187					
4/6/2022	0.00515	0.011						
10/4/2022					0.000268	<0.000203		
10/5/2022			0.00171					
10/18/2022				0.00088			0.000136 (J)	
10/19/2022	0.00487	0.0113						0.00044
5/16/2023			0.002					
5/17/2023					0.000287			
5/22/2023				0.000837		<0.000203		
5/24/2023		0.0113						
5/30/2023	0.00455						<0.000203	0.000469
10/18/2023					0.00024			
10/24/2023						<0.000203		
10/25/2023	0.00421	0.0114					<0.000203	0.000422
10/31/2023			0.00179	0.000744				

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.353							
4/12/2016	0.402							
5/31/2016	0.33							
8/17/2016	0.369							
10/11/2016	0.378							
1/24/2017	0.386							
5/9/2017	0.406							
6/28/2017	0.353							
2/27/2018	0.425							
6/5/2018	0.454							
11/6/2018	0.432							
3/27/2019	0.455							
9/11/2019	0.406							
4/20/2020				0.0806	0.41		0.0375	
4/21/2020	0.42							
5/28/2020		<0.000203				<0.000203		0.00208 (J)
7/6/2020			<0.000203					
8/11/2020		<0.000203	<0.000203	0.0869		<0.000203		<0.000203
8/12/2020	0.415				0.467		0.0467	
3/8/2021		0.000267	0.00027					
3/9/2021						0.00013 (J)		0.00103
3/10/2021				0.213	0.45		0.0196	
3/16/2021	0.473							
8/16/2021			0.00014 (J)					
8/17/2021		0.00032				9E-05 (J)		0.0007
8/23/2021	0.368			0.225	0.454		0.029	
3/23/2022		0.00014 (J)	0.00026			<0.000203		0.00082
4/4/2022	0.432							
4/5/2022					0.401		0.00687	
4/6/2022				0.229				
10/3/2022			0.000144 (J)					
10/4/2022		0.000164 (J)				0.000103 (J)		0.000935
10/5/2022					0.425		0.0177	
10/17/2022	0.366			0.342				
5/15/2023			0.000223					
5/17/2023	0.405							
5/23/2023		0.00025			0.389	0.000116 (J)	0.00126	0.000656
5/30/2023				0.242				
10/18/2023			0.000131 (J)					
10/24/2023	0.382	0.000122 (J)				<0.000203		0.000697
10/31/2023				0.302	0.498		0.026	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.000203
2/17/2016	<0.000203						<0.000203	
4/12/2016	<0.000203							
4/13/2016							<0.000203	<0.000203
5/31/2016	<0.000203						<0.000203	
6/1/2016								<0.000203
8/17/2016	<0.000203						<0.000203	<0.000203
10/11/2016	<0.000203							
10/12/2016							<0.000203	<0.000203
1/24/2017	<0.000203							
1/25/2017							<0.000203	<0.000203
5/10/2017	<0.000203						<0.000203	<0.000203
6/28/2017	<0.000203						<0.000203	<0.000203
2/27/2018	<0.000203						<0.000203	<0.000203
6/5/2018	<0.000203						<0.000203	<0.000203
11/7/2018	<0.000203						<0.000203	<0.000203
3/26/2019	<0.000203						<0.000203	<0.000203
9/10/2019	<0.000203						<0.000203	<0.000203
4/21/2020	<0.000203						<0.000203	<0.000203
8/19/2020	<0.000203						<0.000203	<0.000203
3/9/2021	0.000303						0.00015 (J)	0.000248
8/17/2021		<0.000203	0.00039	0.00026	0.00012 (J)	0.00051		
8/24/2021	0.00028						0.0001 (J)	0.00027
3/23/2022		<0.000203	0.00025	0.00011 (J)	<0.000203	0.0003		
3/29/2022	0.00013 (J)						8E-05 (J)	0.00015 (J)
10/4/2022		<0.000203	0.000353	0.000145 (J)	0.000133 (J)	0.000267		
10/18/2022	0.000182 (J)						0.000148 (J)	0.000261
5/17/2023						0.000335		
5/22/2023				0.000284	<0.000203			
5/23/2023		<0.000203	0.000278					
5/30/2023	<0.000203						<0.000203	0.000274
10/18/2023						0.000314		
10/23/2023				<0.000203	<0.000203			
10/24/2023		<0.000203	0.000237					
10/25/2023	0.000206						0.000362	0.000184 (J)

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	0.00507	
4/13/2016	0.00556	
6/1/2016	0.00625	
8/17/2016	0.00648	
10/12/2016	0.00772	
1/25/2017	0.00728	
5/10/2017	0.00818	
6/28/2017	0.00718	
2/27/2018	0.00946	
6/5/2018	0.00921	
11/7/2018	0.0098	
3/26/2019	0.00969	
9/10/2019	0.0108	0.00176 (J)
4/20/2020		0.0029 (J)
4/21/2020	0.0102	
8/17/2020		0.00191 (J)
8/18/2020	0.0108	
3/9/2021	0.0105	
3/10/2021		0.00597
8/17/2021		0.0021
8/24/2021	0.00695	
3/29/2022	0.00316	
4/5/2022		0.00404
10/5/2022		0.00368
10/18/2022	0.00787	
5/17/2023		0.00189
5/30/2023	0.0107	
10/24/2023		0.00252
10/25/2023	0.0116	

# Time Series

Constituent: Barium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.179		0.0231	0.113	0.0447		
2/17/2016	0.0364		0.105				0.022	0.0368
4/12/2016					0.0912	0.043	0.0242	
4/13/2016	0.0344	0.185	0.106	0.02				0.044
5/31/2016		0.158	0.0907	0.0175	0.0963	0.0383	0.0224	
6/1/2016	0.0353							0.0357
8/15/2016	0.0395							0.0377
8/16/2016		0.16	0.0989	0.0182	0.0878		0.0243	
8/17/2016						0.0332		
10/11/2016	0.0455						0.0291	
10/12/2016		0.17	0.113	0.0221	0.112	0.0454		0.0431
1/24/2017	0.0428						0.0223	0.0418
1/25/2017		0.156	0.103	0.0187	0.114	0.0567		
5/9/2017	0.0399		0.125	0.0232	0.1	0.069		
5/10/2017		0.169					0.0281	0.0449
6/27/2017	0.0348						0.0223	0.042
6/28/2017		0.144	0.103	0.0178	0.0874	0.0764		
2/27/2018	0.0398	0.172	0.0718			0.0908		
2/28/2018				0.0197	0.0984		0.0271	0.0595
6/4/2018	0.0314							
6/5/2018		0.173	0.0643				0.0269	0.0471
6/6/2018				0.0204	0.0951	0.064		
11/5/2018			0.0588	0.0255	0.113			
11/6/2018	0.0348						0.0271	0.0574
11/7/2018		0.171				0.0575		
3/26/2019				0.0218	0.109		0.0282	0.0626
3/27/2019	0.0286	0.167	0.0678			0.0768		
9/10/2019	0.0283	0.199	0.0651	0.0233		0.0685	0.0348	0.0754
9/11/2019					0.275			
4/20/2020					0.104		0.0338	0.0921
4/21/2020	0.0206			0.0325		0.102		
4/22/2020		0.186	0.0967					
8/11/2020						0.0806		0.0948
8/12/2020							0.0352	
8/17/2020	0.0218							
8/18/2020		0.223	0.0866	0.021	0.199			
3/9/2021						0.125		0.102
3/10/2021			0.0637	0.0373			0.0365	
3/15/2021		0.261			0.0699			
3/16/2021	0.024							
8/17/2021	0.0211							0.101
8/24/2021		0.287						
8/25/2021			0.104	0.0323	0.114	0.11	0.0402	
3/29/2022				0.0355			0.0381	
3/30/2022			0.0485					
4/4/2022	0.0235	0.26				0.103		
4/6/2022					0.0701			0.103
10/5/2022	0.0256							
10/17/2022			0.0611	0.0301	0.119			
10/18/2022		0.248				0.103	0.036	0.103
5/16/2023	0.0336							
5/17/2023			0.0705					



# Time Series

Constituent: Barium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							0.0433	
5/24/2023		0.269				0.127		
5/30/2023				0.0309				
5/31/2023					0.0536			0.119
10/24/2023	0.0368						0.0399	
10/25/2023			0.0747	0.0223	0.0752			0.126
11/1/2023		0.259				0.117		

# Time Series

Constituent: Barium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				0.0379				
2/17/2016	0.0402	0.12	0.0311		0.0285	0.0305	0.0895	
4/12/2016		0.131			0.035	0.0312	0.0966	
4/13/2016	0.0637		0.0334	0.0291				
6/1/2016	0.0786	0.114	0.029	0.0254	0.0328	0.0298	0.0872	
8/15/2016	0.0634	0.113	0.0317					
8/16/2016				0.0385	0.033	0.0308		
8/17/2016							0.0875	0.0476
9/20/2016								0.0436
10/11/2016			0.0339		0.0352	0.042	0.1	
10/12/2016	0.0995	0.126		0.0486				0.0397
11/15/2016								0.0369
1/4/2017								0.0518
1/23/2017								0.0662
1/24/2017	0.117	0.126	0.0276		0.0286	0.0446	0.0856	
1/25/2017				0.0371				
5/9/2017			0.0285	0.0454	0.0257		0.093	0.0691
5/10/2017	0.158	0.138				0.0568		
6/27/2017	0.139	0.12			0.0246			0.0603
6/28/2017			0.0273	0.0352		0.0663	0.0829	
2/27/2018			0.0292		0.0287	0.101		0.0386
2/28/2018	0.199	0.143		0.0376			0.0958	
6/4/2018			0.0298					
6/5/2018	0.149	0.128			0.0279	0.108		0.0356
6/6/2018				0.0355			0.0892	
11/5/2018				0.0509				
11/6/2018	0.202	0.109	0.0286				0.0807	0.0387
11/7/2018					0.0281	0.1		
3/26/2019	0.242	0.117		0.047	0.0295	0.0978		0.0419
3/27/2019			0.0311				0.0901	
9/9/2019	0.319	0.101	0.035					
9/10/2019				0.0568	0.0338	0.0967	0.101	
9/11/2019								0.0468
4/21/2020	0.306	0.0926	0.0335	0.0763	0.0296			0.0439
4/22/2020						0.0738	0.11	
8/11/2020	0.29						0.111	
8/12/2020		0.0815			0.0311	0.0788		
8/17/2020			0.0376					
8/18/2020				0.0517				0.0409
3/9/2021	0.352	0.0849						
3/10/2021				0.111	0.0305	0.0873	0.0797	
3/15/2021								0.0351
3/16/2021			0.033					
8/17/2021	0.254	0.0763	0.0347					
8/18/2021								0.0311
8/24/2021					0.0311	0.07	0.0988	
8/25/2021				0.0865				
3/28/2022			0.0301		0.0264			
3/29/2022							0.0717	
3/30/2022				0.112				
4/4/2022	0.27					0.0635		0.0335
4/6/2022		0.0769						



# Time Series

Constituent: Barium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				0.0896				
4/12/2016				0.0994				
6/1/2016				0.104				
8/15/2016				0.102				
8/16/2016			0.0527		0.0376	0.0226	0.0134	0.0304
8/17/2016	0.0803	0.336						
9/19/2016						0.0202	0.0125	0.0215
9/20/2016	0.0679	0.341	0.0698		0.0348			
10/11/2016			0.0799	0.11	0.0396	0.0219	0.0128	0.0236
10/12/2016	0.0644	0.347						
11/14/2016						0.0215	0.0129	0.0206
11/15/2016	0.0628	0.332	0.0479		0.0359			
1/3/2017						0.019	0.0116	0.0409
1/4/2017	0.0477	0.299	0.0513		0.0238			
1/23/2017	0.0482				0.029			
1/24/2017		0.264		0.0942		0.0167	0.0118	
1/25/2017								0.0455
1/26/2017			0.0674					
5/9/2017	0.0611	0.322	0.0836	0.105	0.0409			
5/10/2017						0.0246	0.0142	0.0798
6/27/2017	0.0492	0.278	0.0661		0.0303	0.0238	0.0127	0.0679
6/28/2017				0.104				
2/27/2018	0.0463	0.312	0.05	0.0989	0.0383	0.0231	0.0135	0.0856
6/4/2018				0.0936				
6/5/2018	0.0298	0.243	0.0433		0.0633	0.0228	0.0126	0.0875
11/5/2018							0.0123	
11/6/2018	0.0582	0.249	0.0379	0.0936	0.0463	0.0211		0.0726
3/26/2019	0.0499	0.232	0.0348		0.101			
3/27/2019				0.0951		0.025	0.0134	0.0912
9/9/2019				0.111				
9/11/2019	0.0574	0.246	0.0404		0.0855	0.0267	0.0147	0.0824
4/20/2020				0.109				
4/21/2020	0.0827	0.219	0.0542		0.0485			
4/22/2020						0.0285	0.0133	0.102
8/11/2020						0.0264		
8/12/2020							0.0127	0.0601
8/17/2020				0.139				
8/18/2020	0.0734	0.211	0.0442		0.0529			
3/15/2021	0.069	0.222	0.0545		0.0462	0.0316	0.0692	0.0144
3/16/2021				0.159				
8/17/2021				0.15				
8/18/2021	0.0607	0.198	0.0554		0.0329			
8/23/2021						0.0317	0.0764	0.0141
3/28/2022	0.0625	0.186	0.0337		0.0286	0.0325	0.0132	0.0773
4/5/2022				0.145				
10/5/2022				0.138		0.0283	0.0133	0.0665
10/19/2022	0.0608	0.183	0.0379		0.0246			
5/17/2023				0.153				
5/22/2023							0.0152	0.102
5/23/2023						0.0361		
5/30/2023	0.0747	0.179	0.0452		0.0256			
10/24/2023	0.0791	0.183	0.0398	0.142	0.0218			

# Time Series

Constituent: Barium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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10/30/2023	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
					0.0372		0.0134	0.0764

# Time Series

Constituent: Barium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.0814			
1/15/2019				0.0454		0.185	0.0361	0.13
1/16/2019		0.0492						
1/17/2019	0.0714							
1/30/2019			0.00776 (J)					
9/10/2019	0.0554						0.0294	
9/11/2019		0.0369	0.00323 (J)		0.0581	0.173		0.1
4/20/2020							0.0282	
4/21/2020		0.0473						
4/22/2020	0.0578		0.0027 (J)	0.0248	0.0607	0.192		
4/29/2020								0.0998
8/11/2020			0.00393 (J)			0.177		
8/12/2020	0.0467						0.0295	
8/18/2020		0.033						0.0879
8/19/2020				0.0591	0.0678			
3/9/2021			0.00297			0.206		
3/10/2021					0.0719		0.0322	
3/15/2021	0.0532							0.116
3/16/2021		0.04		0.0347				
8/23/2021	0.0478							
8/24/2021		0.0336	0.00261	0.037	0.0872	0.213		
8/25/2021							0.0296	0.128
3/28/2022	0.0481							
3/29/2022				0.0235				
3/30/2022			0.00372		0.0702		0.0277	
4/6/2022		0.0385				0.178		0.145
10/5/2022							0.0241	
10/17/2022		0.0386	0.00282	0.106				
10/18/2022					0.0956	0.21		0.119
10/19/2022	0.0444							
5/22/2023			0.0027					
5/23/2023		0.0394		0.0845	0.103			
5/24/2023						0.249		
5/31/2023	0.0539						0.025	0.124
10/23/2023					0.0966			
10/24/2023		0.0464					0.026	
10/25/2023			0.00357	0.0854				
10/31/2023						0.26		0.127
11/1/2023	0.046							

# Time Series

Constituent: Barium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	0.162							
1/16/2019		0.12	0.131					
9/11/2019	0.123	0.127	0.0797					
4/20/2020			0.0594	0.0898				
4/21/2020	0.108	0.156					0.028	0.0437
5/28/2020						0.0267		
7/6/2020					0.0613			
8/11/2020					0.0653	0.0204		
8/12/2020			0.0589					
8/17/2020				0.0632			0.027	
8/19/2020	0.119	0.168						0.0394
3/8/2021					0.0523	0.0229		
3/9/2021	0.135	0.211						
3/10/2021			0.064	0.0543			0.0281	0.0406
8/17/2021					0.0563	0.0297		
8/18/2021	0.145	0.187		0.0942			0.0239	0.0492
8/23/2021			0.0596					
3/23/2022					0.0595	0.0332		
3/29/2022				0.0534				
3/30/2022							0.0253	0.0642
4/4/2022			0.0482					
4/6/2022	0.147	0.168						
10/4/2022					0.0574	0.0238		
10/5/2022			0.0475					
10/18/2022				0.0372			0.0269	
10/19/2022	0.154	0.164						0.0545
5/16/2023			0.0481					
5/17/2023					0.0578			
5/22/2023				0.0532		0.0229		
5/24/2023		0.162						
5/30/2023	0.133						0.024	0.0497
10/18/2023					0.0658			
10/24/2023						0.0247		
10/25/2023	0.153	0.159					0.0248	0.0511
10/31/2023			0.0482	0.0493				

# Time Series

Constituent: Barium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.397							
4/12/2016	0.434							
5/31/2016	0.354							
8/17/2016	0.397							
10/11/2016	0.485							
1/24/2017	0.472							
5/9/2017	0.512							
6/28/2017	0.48							
2/27/2018	0.269							
6/5/2018	0.27							
11/6/2018	0.306							
3/27/2019	0.251							
9/11/2019	0.323							
4/20/2020				0.278	0.259		0.0771	
4/21/2020	0.138							
5/28/2020		0.0701				0.0389		0.127
7/6/2020			0.129					
8/11/2020		0.064	0.116	0.246		0.0337		0.0909
8/12/2020	0.134				0.221		0.0796	
3/8/2021		0.0685	0.131					
3/9/2021						0.0404		0.0795
3/10/2021				0.393	0.19		0.103	
3/16/2021	0.143							
8/16/2021			0.129					
8/17/2021		0.0707				0.0317		0.0669
8/23/2021	0.139			0.377	0.2		0.084	
3/23/2022		0.0762	0.149			0.0352		0.0627
4/4/2022	0.131							
4/5/2022					0.18		0.088	
4/6/2022				0.382				
10/3/2022			0.165					
10/4/2022		0.0696				0.0351		0.0602
10/5/2022					0.182		0.0719	
10/17/2022	0.134			0.318				
5/15/2023			0.203					
5/17/2023	0.136							
5/23/2023		0.0707			0.244	0.0302	0.128	0.0543
5/30/2023				0.391				
10/18/2023			0.204					
10/24/2023	0.142	0.0457				0.0282		0.0529
10/31/2023				0.311	0.237		0.0998	



# Time Series

Constituent: Barium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

Date	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								0.117
2/17/2016	0.0455						0.0772	
4/12/2016	0.0455							
4/13/2016							0.0886	0.113
5/31/2016	0.0407						0.0823	
6/1/2016								0.105
8/17/2016	0.0434						0.0789	0.105
10/11/2016	0.0514							
10/12/2016							0.0883	0.111
1/24/2017	0.0476							
1/25/2017							0.067	0.0963
5/10/2017	0.0543						0.0644	0.103
6/28/2017	0.0402						0.0582	0.0935
2/27/2018	0.0463						0.0669	0.0808
6/5/2018	0.051						0.0672	0.0789
11/7/2018	0.0527						0.0739	0.0855
3/26/2019	0.0682						0.0796	0.0911
9/10/2019	0.0789						0.0887	0.11
4/21/2020	0.0728						0.0762	0.116
8/19/2020	0.0784						0.0816	0.119
3/9/2021	0.0664						0.083	0.15
8/17/2021		0.0379	0.0383	0.0727	0.0597	0.0762		
8/24/2021	0.0737						0.0782	0.122
3/23/2022		0.0338	0.0411	0.0807	0.0498	0.094		
3/29/2022	0.0614						0.0639	0.104
10/4/2022		0.04	0.0413	0.0737	0.0548	0.0681		
10/18/2022	0.0619						0.084	0.107
5/17/2023						0.0753		
5/22/2023				0.0767	0.0524			
5/23/2023		0.042	0.0436					
5/30/2023	0.0665						0.0795	0.136
10/18/2023						0.0767		
10/23/2023				0.0637	0.0493			
10/24/2023		0.0411	0.0438					
10/25/2023	0.0633						0.0645	0.114

# Time Series

Constituent: Barium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	0.0637	
4/13/2016	0.0552	
6/1/2016	0.0555	
8/17/2016	0.0745	
10/12/2016	0.0897	
1/25/2017	0.0864	
5/10/2017	0.105	
6/28/2017	0.0897	
2/27/2018	0.118	
6/5/2018	0.111	
11/7/2018	0.141	
3/26/2019	0.175	
9/10/2019	0.206	0.0787
4/20/2020		0.0801
4/21/2020	0.175	
8/17/2020		0.0718
8/18/2020	0.165	
3/9/2021	0.16	
3/10/2021		0.0759
8/17/2021		0.0781
8/24/2021	0.168	
3/29/2022	0.139	
4/5/2022		0.0665
10/5/2022		0.0698
10/18/2022	0.147	
5/17/2023		0.0633
5/30/2023	0.15	
10/24/2023		0.0608
10/25/2023	0.126	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.001015		<0.001015	<0.001015	<0.001015		
2/17/2016	<0.001015		<0.001015				<0.001015	<0.001015
4/12/2016					<0.001015	<0.001015	<0.001015	
4/13/2016	<0.001015	<0.001015	<0.001015	<0.001015				<0.001015
5/31/2016		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
6/1/2016	<0.001015							<0.001015
8/15/2016	<0.001015							<0.001015
8/16/2016		<0.001015	<0.001015	<0.001015	<0.001015		<0.001015	
8/17/2016						<0.001015		
10/11/2016	<0.001015						<0.001015	
10/12/2016		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
1/24/2017	<0.001015						<0.001015	<0.001015
1/25/2017		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
5/9/2017	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015		
5/10/2017		<0.001015					<0.001015	<0.001015
6/27/2017	<0.001015						<0.001015	<0.001015
6/28/2017		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
2/27/2018	<0.001015	<0.001015	<0.001015			<0.001015		
2/28/2018				<0.001015	<0.001015		<0.001015	<0.001015
6/4/2018	<0.001015							
6/5/2018		<0.001015	<0.001015				<0.001015	<0.001015
6/6/2018				<0.001015	<0.001015	<0.001015		
11/5/2018			<0.001015	<0.001015	<0.001015			
11/6/2018	<0.001015						<0.001015	<0.001015
11/7/2018		<0.001015				<0.001015		
3/26/2019				<0.001015	<0.001015		<0.001015	<0.001015
3/27/2019	<0.001015	<0.001015	<0.001015			<0.001015		
9/10/2019	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015
9/11/2019					<0.001015			
4/20/2020					<0.001015		<0.001015	<0.001015
4/21/2020	<0.001015			<0.001015		<0.001015		
4/22/2020		<0.001015	<0.001015					
8/11/2020						<0.001015		<0.001015
8/12/2020							<0.001015	
8/17/2020	<0.001015							
8/18/2020		<0.001015	<0.001015	<0.001015	<0.001015			
3/9/2021						<0.001015		<0.001015
3/10/2021			<0.001015	<0.001015			<0.001015	
3/15/2021		<0.001015			<0.001015			
3/16/2021	<0.001015							
8/17/2021	<0.001015							<0.001015
8/24/2021		<0.001015						
8/25/2021			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
3/29/2022				<0.001015			<0.001015	
3/30/2022			<0.001015					
4/4/2022	<0.001015	<0.001015				<0.001015		
4/6/2022					<0.001015			<0.001015
10/5/2022	<0.001015							
10/17/2022			<0.001015	<0.001015	<0.001015			
10/18/2022		<0.001015				<0.001015	<0.001015	<0.001015
5/16/2023	<0.001015							
5/17/2023			<0.001015					

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							<0.001015	
5/24/2023		<0.001015				<0.001015		
5/30/2023				<0.001015				
5/31/2023					<0.001015			<0.001015
10/24/2023	<0.001015						<0.001015	
10/25/2023			<0.001015	<0.001015	<0.001015			<0.001015
11/1/2023		<0.001015				<0.001015		

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.001015				
2/17/2016	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	
4/12/2016		<0.001015			<0.001015	<0.001015	<0.001015	
4/13/2016	<0.001015		<0.001015	<0.001015				
6/1/2016	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
8/15/2016	<0.001015	<0.001015	<0.001015					
8/16/2016				<0.001015	<0.001015	<0.001015		
8/17/2016							<0.001015	0.00161 (J)
9/20/2016								0.00155 (J)
10/11/2016			<0.001015		<0.001015	<0.001015	0.000715 (J)	
10/12/2016	<0.001015	<0.001015		<0.001015				0.00138 (J)
11/15/2016								0.00109 (J)
1/4/2017								0.00141 (J)
1/23/2017								0.00171 (J)
1/24/2017	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	
1/25/2017				<0.001015				
5/9/2017			<0.001015	<0.001015	<0.001015		<0.001015	0.00226 (J)
5/10/2017	<0.001015	<0.001015				<0.001015		
6/27/2017	<0.001015	<0.001015			<0.001015			0.0017 (J)
6/28/2017			<0.001015	<0.001015		<0.001015	<0.001015	
2/27/2018			<0.001015		<0.001015	<0.001015		0.00147 (J)
2/28/2018	<0.001015	<0.001015		<0.001015			<0.001015	
6/4/2018			<0.001015					
6/5/2018	<0.001015	<0.001015			<0.001015	<0.001015		0.000821 (J)
6/6/2018				<0.001015			<0.001015	
11/5/2018				<0.001015				
11/6/2018	<0.001015	<0.001015	<0.001015				<0.001015	0.000757 (J)
11/7/2018					<0.001015	<0.001015		
3/26/2019	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015		0.00092 (J)
3/27/2019			<0.001015				<0.001015	
9/9/2019	<0.001015	<0.001015	<0.001015					
9/10/2019				<0.001015	<0.001015	<0.001015	<0.001015	
9/11/2019								<0.001015
4/21/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015			0.000756 (J)
4/22/2020						<0.001015	<0.001015	
8/11/2020	<0.001015						<0.001015	
8/12/2020		<0.001015			<0.001015	<0.001015		
8/17/2020			<0.001015					
8/18/2020				<0.001015				0.000828 (J)
3/9/2021	<0.001015	<0.001015						
3/10/2021				<0.001015	<0.001015	<0.001015	<0.001015	
3/15/2021								0.000453 (J)
3/16/2021			<0.001015					
8/17/2021	<0.001015	<0.001015	<0.001015					
8/18/2021								0.00041 (J)
8/24/2021					<0.001015	<0.001015	<0.001015	
8/25/2021				<0.001015				
3/28/2022			<0.001015		<0.001015			
3/29/2022							<0.001015	
3/30/2022				<0.001015				
4/4/2022	<0.001015					<0.001015		<0.001015
4/6/2022		<0.001015						

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			<0.001015					
10/17/2022		<0.001015		<0.001015	<0.001015	<0.001015		
10/18/2022	<0.001015						<0.001015	
10/19/2022								<0.001015
5/16/2023					<0.001015	<0.001015		
5/17/2023	<0.001015		<0.001015					
5/22/2023		<0.001015						
5/30/2023				<0.001015			<0.001015	<0.001015
10/23/2023	<0.001015	<0.001015						
10/24/2023			<0.001015					<0.001015
10/25/2023				<0.001015	<0.001015	<0.001015		
11/1/2023							<0.001015	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot

Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016			<0.001015				
4/12/2016			<0.001015				
6/1/2016			<0.001015				
8/15/2016			<0.001015				
8/16/2016		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
8/17/2016	<0.001015	<0.001015					
9/19/2016					<0.001015	<0.001015	<0.001015
9/20/2016	<0.001015	<0.001015	<0.001015	<0.001015			
10/11/2016			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/12/2016	<0.001015	<0.001015					
11/14/2016					<0.001015	<0.001015	<0.001015
11/15/2016	<0.001015	<0.001015	<0.001015	<0.001015			
1/3/2017					<0.001015	<0.001015	<0.001015
1/4/2017	<0.001015	<0.001015	<0.001015	<0.001015			
1/23/2017	<0.001015			<0.001015			
1/24/2017		<0.001015	<0.001015		<0.001015	<0.001015	
1/25/2017							<0.001015
1/26/2017			<0.001015				
5/9/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
5/10/2017					<0.001015	<0.001015	<0.001015
6/27/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/28/2017				<0.001015			
2/27/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/4/2018				<0.001015			
6/5/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
11/5/2018						<0.001015	
11/6/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
3/26/2019	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
3/27/2019				<0.001015	<0.001015	<0.001015	<0.001015
9/9/2019				<0.001015			
9/11/2019	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
4/20/2020				<0.001015			
4/21/2020	<0.001015	<0.001015	<0.001015	<0.001015			
4/22/2020					<0.001015	<0.001015	<0.001015
8/11/2020					<0.001015		
8/12/2020						<0.001015	<0.001015
8/17/2020				<0.001015			
8/18/2020	<0.001015	<0.001015	<0.001015	<0.001015			
3/15/2021	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
3/16/2021				<0.001015			
8/17/2021				<0.001015			
8/18/2021	<0.001015	<0.001015	<0.001015	<0.001015			
8/23/2021					<0.001015	<0.001015	<0.001015
3/28/2022	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
4/5/2022				<0.001015			
10/5/2022				<0.001015	<0.001015	<0.001015	<0.001015
10/19/2022	<0.001015	<0.001015	<0.001015	<0.001015			
5/17/2023				<0.001015			
5/22/2023						<0.001015	<0.001015
5/23/2023					<0.001015		
5/30/2023	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
10/24/2023	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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10/30/2023	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
					<0.001015	<0.001015	<0.001015



# Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.001015			
1/15/2019				<0.001015		<0.001015	<0.001015	<0.001015
1/16/2019		<0.001015						
1/17/2019	<0.001015							
1/30/2019			<0.001015					
9/10/2019	<0.001015						<0.001015	
9/11/2019		<0.001015	<0.001015		<0.001015	<0.001015		<0.001015
4/20/2020							<0.001015	
4/21/2020		<0.001015						
4/22/2020	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015		
4/29/2020								<0.001015
8/11/2020			<0.001015			<0.001015		
8/12/2020	<0.001015						<0.001015	
8/18/2020		<0.001015						<0.001015
8/19/2020				<0.001015	<0.001015			
3/9/2021			<0.001015			<0.001015		
3/10/2021					<0.001015		<0.001015	
3/15/2021	<0.001015							<0.001015
3/16/2021		<0.001015		<0.001015				
8/23/2021	<0.001015							
8/24/2021		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
8/25/2021							<0.001015	<0.001015
3/28/2022	<0.001015							
3/29/2022				<0.001015				
3/30/2022			<0.001015		<0.001015		<0.001015	
4/6/2022		<0.001015				<0.001015		<0.001015
10/5/2022							<0.001015	
10/17/2022		<0.001015	<0.001015	<0.001015				
10/18/2022					<0.001015	<0.001015		<0.001015
10/19/2022	<0.001015							
5/22/2023			<0.001015					
5/23/2023		<0.001015		<0.001015	<0.001015			
5/24/2023						<0.001015		
5/31/2023	<0.001015						<0.001015	<0.001015
10/23/2023					<0.001015			
10/24/2023		<0.001015					<0.001015	
10/25/2023			<0.001015	<0.001015				
10/31/2023						<0.001015		<0.001015
11/1/2023	<0.001015							

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.001015							
1/16/2019		<0.001015	<0.001015					
9/11/2019	<0.001015	<0.001015	<0.001015					
4/20/2020			<0.001015	<0.001015				
4/21/2020	<0.001015	<0.001015					<0.001015	<0.001015
5/28/2020						<0.001015		
7/6/2020				<0.001015				
8/11/2020				<0.001015	<0.001015			
8/12/2020			<0.001015					
8/17/2020				<0.001015			<0.001015	
8/19/2020	<0.001015	<0.001015						<0.001015
3/8/2021					<0.001015	<0.001015		
3/9/2021	<0.001015	<0.001015						
3/10/2021			<0.001015	<0.001015			<0.001015	<0.001015
8/17/2021					<0.001015	<0.001015		
8/18/2021	<0.001015	<0.001015		<0.001015			<0.001015	<0.001015
8/23/2021			<0.001015					
3/23/2022					<0.001015	<0.001015		
3/29/2022				<0.001015				
3/30/2022							<0.001015	<0.001015
4/4/2022			<0.001015					
4/6/2022	<0.001015	<0.001015						
10/4/2022					<0.001015	<0.001015		
10/5/2022			<0.001015					
10/18/2022				<0.001015			<0.001015	
10/19/2022	<0.001015	<0.001015						<0.001015
5/16/2023			<0.001015					
5/17/2023					<0.001015			
5/22/2023				<0.001015		<0.001015		
5/24/2023		<0.001015						
5/30/2023	<0.001015						<0.001015	<0.001015
10/18/2023					<0.001015			
10/24/2023						<0.001015		
10/25/2023	<0.001015	<0.001015					<0.001015	<0.001015
10/31/2023			<0.001015	<0.001015				

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot

Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.001015							
4/12/2016	<0.001015							
5/31/2016	<0.001015							
8/17/2016	<0.001015							
10/11/2016	<0.001015							
1/24/2017	<0.001015							
5/9/2017	<0.001015							
6/28/2017	<0.001015							
2/27/2018	<0.001015							
6/5/2018	<0.001015							
11/6/2018	<0.001015							
3/27/2019	<0.001015							
9/11/2019	<0.001015							
4/20/2020				<0.001015	<0.001015		<0.001015	
4/21/2020	<0.001015							
5/28/2020		<0.001015				<0.001015		0.000799 (J)
7/6/2020			<0.001015					
8/11/2020		<0.001015	<0.001015	<0.001015		<0.001015		<0.001015
8/12/2020	<0.001015				<0.001015		<0.001015	
3/8/2021		<0.001015	<0.001015					
3/9/2021						<0.001015		<0.001015
3/10/2021				<0.001015	<0.001015		<0.001015	
3/16/2021	<0.001015							
8/16/2021			<0.001015					
8/17/2021		<0.001015				<0.001015		<0.001015
8/23/2021	<0.001015			<0.001015	<0.001015		<0.001015	
3/23/2022		<0.001015	<0.001015			<0.001015		<0.001015
4/4/2022	<0.001015							
4/5/2022					<0.001015		<0.001015	
4/6/2022				<0.001015				
10/3/2022			<0.001015					
10/4/2022		<0.001015				<0.001015		<0.001015
10/5/2022					<0.001015		<0.001015	
10/17/2022	<0.001015			<0.001015				
5/15/2023			<0.001015					
5/17/2023	<0.001015							
5/23/2023		<0.001015			<0.001015	<0.001015	<0.001015	<0.001015
5/30/2023				<0.001015				
10/18/2023			<0.001015					
10/24/2023	<0.001015	<0.001015				<0.001015		<0.001015
10/31/2023				<0.001015	<0.001015		<0.001015	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.001015
2/17/2016	<0.001015						<0.001015	
4/12/2016	<0.001015							
4/13/2016							<0.001015	<0.001015
5/31/2016	<0.001015						<0.001015	
6/1/2016								<0.001015
8/17/2016	<0.001015						<0.001015	<0.001015
10/11/2016	<0.001015							
10/12/2016							<0.001015	<0.001015
1/24/2017	<0.001015							
1/25/2017							<0.001015	<0.001015
5/10/2017	<0.001015						<0.001015	<0.001015
6/28/2017	<0.001015						<0.001015	<0.001015
2/27/2018	<0.001015						<0.001015	<0.001015
6/5/2018	<0.001015						<0.001015	<0.001015
11/7/2018	<0.001015						<0.001015	<0.001015
3/26/2019	<0.001015						<0.001015	<0.001015
9/10/2019	<0.001015						<0.001015	<0.001015
4/21/2020	<0.001015						<0.001015	<0.001015
8/19/2020	<0.001015						<0.001015	<0.001015
3/9/2021	<0.001015						<0.001015	<0.001015
8/17/2021		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
8/24/2021	<0.001015						<0.001015	<0.001015
3/23/2022		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
3/29/2022	<0.001015						<0.001015	<0.001015
10/4/2022		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
10/18/2022	<0.001015						<0.001015	<0.001015
5/17/2023							<0.001015	
5/22/2023				<0.001015	<0.001015			
5/23/2023		<0.001015	<0.001015					
5/30/2023	<0.001015						<0.001015	<0.001015
10/18/2023							<0.001015	
10/23/2023				<0.001015	<0.001015			
10/24/2023		<0.001015	<0.001015					
10/25/2023	<0.001015						<0.001015	<0.001015

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.001015	
4/13/2016	<0.001015	
6/1/2016	<0.001015	
8/17/2016	<0.001015	
10/12/2016	<0.001015	
1/25/2017	<0.001015	
5/10/2017	<0.001015	
6/28/2017	<0.001015	
2/27/2018	<0.001015	
6/5/2018	<0.001015	
11/7/2018	<0.001015	
3/26/2019	<0.001015	
9/10/2019	<0.001015	<0.001015
4/20/2020		<0.001015
4/21/2020	<0.001015	
8/17/2020		<0.001015
8/18/2020	<0.001015	
3/9/2021	<0.001015	
3/10/2021		<0.001015
8/17/2021		<0.001015
8/24/2021	<0.001015	
3/29/2022	<0.001015	
4/5/2022		<0.001015
10/5/2022		<0.001015
10/18/2022	<0.001015	
5/17/2023		<0.001015
5/30/2023	<0.001015	
10/24/2023		<0.001015
10/25/2023	<0.001015	

# Time Series

Constituent: Boron (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		1.44		0.273	0.26	0.739		
2/17/2016	0.219		0.581				0.454	1.47
4/12/2016					0.26	0.733	0.444	
4/13/2016	0.211	0.373	0.61	0.276				1.48
5/31/2016		1.26	0.615	0.291	0.318	0.603	0.424	
6/1/2016	0.2							1.22
8/15/2016	0.211							1.31
8/16/2016		1.34	0.554	0.268	0.322		0.438	
8/17/2016						0.509		
10/11/2016	0.23						0.456	
10/12/2016		1.34	0.537	0.252	0.244	0.569		1.37
1/24/2017	0.218						0.458	1.38
1/25/2017		1.38	0.562	0.167	0.188	0.671		
5/9/2017	0.235		0.528	0.32	0.281	0.622		
5/10/2017		1.23					0.486	1.41
6/27/2017	0.206						0.454	1.43
6/28/2017		1.05	0.313	0.231	0.153	0.695		
8/29/2017		1.17	0.241	0.191	0.112	1		
8/30/2017	0.138						0.441	1.36
6/4/2018	0.242							
6/5/2018		1.31	0.311				0.543	1.36
6/6/2018				0.26	0.244	1.01		
11/5/2018			0.262	0.127	0.104			
11/6/2018	0.247						0.614	1.47
11/7/2018		1.26				0.908		
3/26/2019				0.111	0.213		0.697	1.38
3/27/2019	0.488	1.11	0.298			1.33		
9/10/2019	0.398	1.27	0.141	0.153		1.49	0.73	1.69
9/11/2019					0.535			
4/20/2020					0.642		0.791	1.83
4/21/2020	0.347			0.872		1.55		
4/22/2020		1.23	0.447					
8/11/2020						1.44		1.93
8/12/2020							0.813	
8/17/2020	0.496							
8/18/2020		1.37	0.358	0.748	0.501			
3/9/2021						1.81		1.94
3/10/2021			0.502	0.389			0.825	
3/15/2021		1.79			0.523			
3/16/2021	0.313							
8/17/2021	0.281							1.98
8/24/2021		1.93						
8/25/2021			0.601	0.393	0.438	1.33	0.83	
3/29/2022				0.416			0.848	
3/30/2022			0.472					
4/4/2022	0.269	1.92				1.89		
4/6/2022					0.26			2.17
10/5/2022	0.202							
10/17/2022			0.63	0.272	0.499			
10/18/2022		2.13				1.91	0.874	2.14
5/16/2023	0.187							
5/17/2023			0.691					

# Time Series

Constituent: Boron (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							0.935	
5/24/2023		2.3				1.82		
5/30/2023				0.306				
5/31/2023					0.263			2.09
10/24/2023	0.231						0.877	
10/25/2023			0.625	0.272	0.465			1.99
11/1/2023		2.23				2.17		

# Time Series

Constituent: Boron (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				0.286				
2/17/2016	1.66	1.94	0.146		0.0271 (J)	<0.1015	0.0922 (J)	
4/12/2016		2.03			<0.1015	<0.1015	0.0935 (J)	
4/13/2016	1.64		0.125	0.26				
6/1/2016	1.66	1.74	0.114	0.283	<0.1015	<0.1015	0.0826 (J)	
8/15/2016	1.83	1.66	0.128					
8/16/2016				0.292	<0.1015	<0.1015		
8/17/2016							0.092 (J)	<0.1015
9/20/2016								<0.1015
10/11/2016			0.129		0.024 (J)	<0.1015	0.0976 (J)	
10/12/2016	2.12	1.77		0.254				<0.1015
11/15/2016								<0.1015
1/4/2017								<0.1015
1/23/2017								0.0217 (J)
1/24/2017	1.94	1.49	0.124		0.0333 (J)	<0.1015	0.0877 (J)	
1/25/2017				0.133				
5/9/2017			0.121	0.304	<0.1015		0.0953 (J)	<0.1015
5/10/2017	1.99	1.65				<0.1015		
6/27/2017	2.18	1.66				<0.1015		<0.1015
6/28/2017			0.111	0.243		<0.1015	0.0835 (J)	
8/29/2017				0.249	<0.1015	<0.1015	0.0914 (J)	<0.1015
8/30/2017	1.71	1.53	0.0915 (J)					
6/4/2018			0.134					
6/5/2018	1.76	1.36			<0.1015	<0.1015		<0.1015
6/6/2018				0.245			0.102	
11/5/2018				0.151				
11/6/2018	1.74	1.48	0.131				0.0995 (J)	<0.1015
11/7/2018					<0.1015	<0.1015		
3/26/2019	1.74	1.63		0.0834 (J)	<0.1015	<0.1015		<0.1015
3/27/2019			0.138				0.113	
9/9/2019	2.33	1.73	0.157					
9/10/2019				0.16	<0.1015	<0.1015	0.105	
9/11/2019								<0.1015
4/21/2020	1.97	1.51	0.14	0.586	<0.1015			<0.1015
4/22/2020						<0.1015	0.104	
8/11/2020	2.03						0.11	
8/12/2020		1.53			<0.1015	<0.1015		
8/17/2020			0.152					
8/18/2020				0.211				<0.1015
3/9/2021	2.45	1.52						
3/10/2021				0.528	<0.1015	<0.1015	0.146	
3/15/2021								<0.1015
3/16/2021			0.134					
8/17/2021	2.18	1.45	0.131					
8/18/2021								<0.1015
8/24/2021					<0.1015	<0.1015	0.115	
8/25/2021				0.288				
3/28/2022			0.125		<0.1015			
3/29/2022							0.122	
3/30/2022				0.696				
4/4/2022	2.32					<0.1015		<0.1015
4/6/2022		1.6						



# Time Series

Constituent: Boron (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			0.132					
10/17/2022		1.46		0.59	<0.1015	<0.1015		
10/18/2022	2.28						0.124	
10/19/2022								<0.1015
5/16/2023					<0.1015	<0.1015		
5/17/2023	2.48		0.143					
5/22/2023		1.49						
5/30/2023				0.402			0.115	<0.1015
10/23/2023	2.21	1.07						
10/24/2023			0.143					<0.1015
10/25/2023				0.315	<0.1015	<0.1015		
11/1/2023							0.115	

# Time Series

Constituent: Boron (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				0.0288 (J)				
4/12/2016				0.0293 (J)				
6/1/2016				0.0279 (J)				
8/15/2016				0.0332 (J)				
8/16/2016			<0.1015		<0.1015	<0.1015	<0.1015	0.0268 (J)
8/17/2016	<0.1015	<0.1015						
9/19/2016						<0.1015	<0.1015	0.0225 (J)
9/20/2016	<0.1015	<0.1015	<0.1015		<0.1015			
10/11/2016			<0.1015	0.0328 (J)	<0.1015	<0.1015	<0.1015	0.0304 (J)
10/12/2016	0.02 (J)	<0.1015						
11/14/2016						<0.1015	<0.1015	0.0355 (J)
11/15/2016	<0.1015	<0.1015	0.0229 (J)		<0.1015			
1/3/2017						<0.1015	<0.1015	0.0304 (J)
1/4/2017	<0.1015	<0.1015	<0.1015		<0.1015			
1/23/2017	0.0287 (J)				<0.1015			
1/24/2017		0.0331 (J)		0.0262 (J)		0.0282 (J)	<0.1015	
1/25/2017								<0.1015
1/26/2017			<0.1015					
5/9/2017	<0.1015	<0.1015	<0.1015	0.0298 (J)	<0.1015			
5/10/2017						<0.1015	<0.1015	<0.1015
6/27/2017	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015
6/28/2017				0.0226 (J)				
8/29/2017	<0.1015							
8/30/2017		<0.1015	<0.1015	<0.1	<0.1015	<0.1015	<0.1015	<0.1015
6/4/2018				0.0296 (J)				
6/5/2018	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015
11/5/2018							<0.1015	
11/6/2018	<0.1015	<0.1015	<0.1015	0.0268 (J)	<0.1015	<0.1015		<0.1015
3/26/2019	<0.1015	<0.1015	<0.1015		<0.1015			
3/27/2019				0.0316 (J)		<0.1015	<0.1015	<0.1015
9/9/2019				0.035 (J)				
9/11/2019	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015
4/20/2020				<0.1				
4/21/2020	<0.1015	<0.1015	<0.1015		<0.1015			
4/22/2020						<0.1015	<0.1015	<0.1015
8/11/2020						<0.1015		
8/12/2020							<0.1015	<0.1015
8/17/2020				0.0636 (J)				
8/18/2020	<0.1015	<0.1015	<0.1015		<0.1015			
3/15/2021	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015
3/16/2021				0.0445 (J)				
8/17/2021				0.0518 (J)				
8/18/2021	<0.1015	<0.1015	<0.1015		<0.1015			
8/23/2021						<0.1015	<0.1015	<0.1015
3/28/2022	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015	<0.1015	<0.1015
4/5/2022				0.0453 (J)				
10/5/2022				0.0404 (J)		<0.1015	<0.1015	<0.1015
10/19/2022	<0.1015	<0.1015	<0.1015		<0.1015			
5/17/2023				0.0456 (J)				
5/22/2023							<0.1015	<0.1015
5/23/2023						<0.1015		
5/30/2023	<0.1015	<0.1015	<0.1015		<0.1015			

# Time Series

Constituent: Boron (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
10/24/2023	<0.1015	<0.1015	<0.1015	0.0481 (J)	<0.1015			
10/30/2023						<0.1015	<0.1015	<0.1015

# Time Series

Constituent: Boron (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.148			
1/15/2019				0.224		1.68	0.702	0.762
1/16/2019		0.0284 (J)						
1/17/2019	<0.1015							
1/30/2019			0.164					
9/10/2019	<0.1015						0.734	
9/11/2019		<0.1015	0.147		0.175	1.67		0.758
4/20/2020							0.821	
4/21/2020		<0.1015						
4/22/2020	<0.1015		0.143	0.186	0.118	1.89		
4/29/2020								0.699
8/11/2020			0.145			1.84		
8/12/2020	<0.1015						0.807	
8/18/2020		<0.1015						0.689
8/19/2020				0.229	0.135			
3/9/2021			0.159			1.81		
3/10/2021					0.104		0.807	
3/15/2021	<0.1015							0.659
3/16/2021		<0.1015		0.159				
8/23/2021	<0.1015							
8/24/2021		<0.1015	0.139	0.179	0.105	2		
8/25/2021							0.627	0.632
3/28/2022	<0.1015							
3/29/2022				0.157				
3/30/2022			0.145		0.102		0.506	
4/6/2022		<0.1015				2.21		0.607
10/5/2022							0.541	
10/17/2022		<0.1015	0.143	0.159				
10/18/2022					0.097 (J)	2.07		0.585
10/19/2022	<0.1015							
5/22/2023			0.143					
5/23/2023		<0.1015		0.159	0.071 (J)			
5/24/2023						2.19		
5/31/2023	<0.1015						0.536	0.56
10/23/2023					0.0774 (J)			
10/24/2023		<0.1015					0.522	
10/25/2023			0.14	0.175				
10/31/2023						2.14		0.564
11/1/2023	<0.1015							

# Time Series

Constituent: Boron (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	1.73							
1/16/2019		0.835	0.173					
9/11/2019	1.88	1.07	0.199					
4/20/2020			0.2	0.426				
4/21/2020	1.76	1.08					0.172	0.272
5/28/2020						0.143		
7/6/2020					0.274			
8/11/2020					0.252	0.0903 (J)		
8/12/2020			0.197					
8/17/2020				0.57			0.218	
8/19/2020	1.26	1.15						0.213
3/8/2021					0.658	0.0769 (J)		
3/9/2021	1.26	1.14						
3/10/2021			0.218	0.625			0.188	0.224
8/17/2021					0.392	0.105		
8/18/2021	1.03	1.23		0.646			0.131	0.157
8/23/2021			0.208					
3/23/2022					0.355	0.159		
3/29/2022				0.567				
3/30/2022							0.0985 (J)	0.33
4/4/2022			0.202					
4/6/2022	1.46	1.29						
10/4/2022					0.302	0.115		
10/5/2022			0.194					
10/18/2022				0.489			0.0976 (J)	
10/19/2022	1.95	1.22						0.437
5/16/2023			0.201					
5/17/2023					0.321			
5/22/2023				0.536		0.0956 (J)		
5/24/2023		1.21						
5/30/2023	1.58						0.0653 (J)	0.413
10/18/2023					0.314			
10/24/2023						0.0835 (J)		
10/25/2023	1.87	1.02					0.0673 (J)	0.423
10/31/2023			0.182	0.511				

# Time Series

Constituent: Boron (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.478							
4/12/2016	0.467							
5/31/2016	0.443							
8/17/2016	0.477							
10/11/2016	0.489							
1/24/2017	0.475							
5/9/2017	0.479							
6/28/2017	0.448							
8/30/2017	0.407							
6/5/2018	0.489							
11/6/2018	0.508							
3/27/2019	0.502							
9/11/2019	0.595							
4/20/2020				0.309	0.626		0.252	
4/21/2020	0.72							
5/28/2020		0.343				0.0435 (J)		0.208
7/6/2020			1.2					
8/11/2020		0.329	1.25	0.493		0.0406 (J)		0.209
8/12/2020	0.695				0.76		0.338	
3/8/2021		0.302	1.25					
3/9/2021						0.0397 (J)		0.192
3/10/2021				0.338	0.53		0.126	
3/16/2021	0.694							
8/16/2021			1.35					
8/17/2021		0.281				<0.1015		0.192
8/23/2021	0.628			0.517	0.458		0.211	
3/23/2022		0.508	1.33			0.0337 (J)		0.197
4/4/2022	0.615							
4/5/2022					0.462		0.104	
4/6/2022				0.329				
10/3/2022			1.39					
10/4/2022		0.328				0.0305 (J)		0.206
10/5/2022					0.398		0.151	
10/17/2022	0.599			0.555				
5/15/2023			1.54					
5/17/2023	0.515							
5/23/2023		0.336			0.335	<0.1015	0.109	0.197
5/30/2023				0.435				
10/18/2023			1.46					
10/24/2023	0.552	0.182				<0.1015		0.192
10/31/2023				0.564	0.369		0.188	

# Time Series

Constituent: Boron (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								1.54
2/17/2016	2.12						0.503	
4/12/2016	2.06							
4/13/2016							0.478	1.56
5/31/2016	1.97						0.452	
6/1/2016								1.49
8/17/2016	2.01						0.492	1.57
10/11/2016	1.91							
10/12/2016							0.487	1.65
1/24/2017	1.62							
1/25/2017							0.529	1.89
5/10/2017	1.62						0.533	1.94
6/28/2017	1.71						0.501	1.72
8/29/2017	1.7						0.51	1.63
6/5/2018	1.56						0.605	1.73
11/7/2018	1.6						0.677	1.8
3/26/2019	1.63						0.727	1.81
9/10/2019	1.83						0.764	1.82
4/21/2020	1.77						0.793	1.89
8/19/2020	1.86						0.561	1.94
3/9/2021	1.49						0.397	1.57
8/17/2021		<0.1015	<0.1015	<0.1015	<0.1015	0.571		
8/24/2021	1.36						0.216	1.23
3/23/2022		<0.1015	<0.1015	0.0339 (J)	0.0339 (J)	0.567		
3/29/2022	1.39						0.0842 (J)	1.08
10/4/2022		<0.1015	<0.1015	<0.1015	0.036 (J)	0.419		
10/18/2022	1.16						0.0589 (J)	0.815
5/17/2023						0.464		
5/22/2023				<0.1015	0.0326 (J)			
5/23/2023		<0.1015	<0.1015					
5/30/2023	1.09						0.0498 (J)	0.794
10/18/2023						0.439		
10/23/2023				<0.1015	<0.1015			
10/24/2023		<0.1015	<0.1015					
10/25/2023	0.93						0.0465 (J)	0.709

# Time Series

Constituent: Boron (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	0.412	
4/13/2016	0.376	
6/1/2016	0.338	
8/17/2016	0.412	
10/12/2016	0.46	
1/25/2017	0.586	
5/10/2017	0.661	
6/28/2017	0.673	
8/29/2017	0.723	
6/5/2018	0.954	
11/7/2018	1.11	
3/26/2019	1.14	
9/10/2019	1.23	0.293
4/20/2020		0.308
4/21/2020	1.27	
8/17/2020		0.344
8/18/2020	1.24	
3/9/2021	1.12	
3/10/2021		0.338
8/17/2021		0.296
8/24/2021	1.14	
3/29/2022	0.71	
4/5/2022		0.351
10/5/2022		0.272
10/18/2022	1.15	
5/17/2023		0.316
5/30/2023	1.05	
10/24/2023		0.25
10/25/2023	1.13	



# Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.000203		<0.000203	<0.000203	<0.000203		
2/17/2016	<0.000203		<0.000203				<0.000203	<0.000203
4/12/2016					<0.000203	<0.000203	<0.000203	
4/13/2016	<0.000203	<0.000203	<0.000203	<0.000203				<0.000203
5/31/2016		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
6/1/2016	<0.000203							<0.000203
8/15/2016	<0.000203							<0.000203
8/16/2016		<0.000203	<0.000203	<0.000203	<0.000203		<0.000203	
8/17/2016						<0.000203		
10/11/2016	<0.000203						<0.000203	
10/12/2016		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
1/24/2017	<0.000203						<0.000203	<0.000203
1/25/2017		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
5/9/2017	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203		
5/10/2017		<0.000203					<0.000203	<0.000203
6/27/2017	<0.000203						<0.000203	<0.000203
6/28/2017		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
2/27/2018	<0.000203	<0.000203	<0.000203			<0.000203		
2/28/2018				<0.000203	<0.000203		<0.000203	<0.000203
6/4/2018	<0.000203							
6/5/2018		<0.000203	<0.000203				<0.000203	<0.000203
6/6/2018				<0.000203	<0.000203	<0.000203		
11/5/2018			<0.000203	<0.000203	<0.000203			
11/6/2018	<0.000203						<0.000203	<0.000203
11/7/2018		<0.000203				<0.000203		
3/26/2019				<0.000203	<0.000203		<0.000203	<0.000203
3/27/2019	<0.000203	<0.000203	<0.000203			<0.000203		
9/10/2019	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203
9/11/2019					<0.000203			
4/20/2020					<0.000203		<0.000203	<0.000203
4/21/2020	<0.000203			<0.000203		<0.000203		
4/22/2020		<0.000203	<0.000203					
8/11/2020						<0.000203		<0.000203
8/12/2020							<0.000203	
8/17/2020	<0.000203							
8/18/2020		<0.000203	<0.000203	<0.000203	<0.000203			
3/9/2021						<0.000203		<0.000203
3/10/2021			0.000347	<0.000203			0.00012 (J)	
3/15/2021		<0.000203			<0.000203			
3/16/2021	<0.000203							
8/17/2021	<0.000203							<0.000203
8/24/2021		<0.000203						
8/25/2021			<0.000203	<0.000203	<0.000203	<0.000203	0.00014 (J)	
3/29/2022				<0.000203			0.00046	
3/30/2022			<0.000203					
4/4/2022	<0.000203	<0.000203				<0.000203		
4/6/2022					8E-05 (J)			<0.000203
10/5/2022	9.2E-05 (J)							
10/17/2022			<0.000203	<0.000203	0.000145 (J)			
10/18/2022		<0.000203				<0.000203	0.000135 (J)	6.9E-05 (J)
5/16/2023	8.9E-05 (J)							
5/17/2023			<0.000203					

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							0.00019 (J)	
5/24/2023		<0.000203				<0.000203		
5/30/2023				<0.000203				
5/31/2023					<0.000203			<0.000203
10/24/2023	8.9E-05 (J)						0.000123 (J)	
10/25/2023			<0.000203	<0.000203	<0.000203			<0.000203
11/1/2023		<0.000203				<0.000203		

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.000203				
2/17/2016	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	
4/12/2016		<0.000203			<0.000203	<0.000203	<0.000203	
4/13/2016	<0.000203		<0.000203	<0.000203				
6/1/2016	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
8/15/2016	<0.000203	<0.000203	<0.000203					
8/16/2016				<0.000203	<0.000203	<0.000203		
8/17/2016							<0.000203	<0.000203
9/20/2016								<0.000203
10/11/2016			<0.000203		<0.000203	<0.000203	<0.000203	
10/12/2016	<0.000203	<0.000203		<0.000203				<0.000203
11/15/2016								<0.000203
1/4/2017								<0.000203
1/23/2017								<0.000203
1/24/2017	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	
1/25/2017				<0.000203				
5/9/2017			<0.000203	<0.000203	<0.000203		<0.000203	0.000706 (J)
5/10/2017	<0.000203	<0.000203				<0.000203		
6/27/2017	<0.000203	<0.000203			<0.000203			0.000429 (J)
6/28/2017			<0.000203	<0.000203		<0.000203	<0.000203	
2/27/2018			<0.000203		<0.000203	<0.000203		<0.000203
2/28/2018	<0.000203	<0.000203		<0.000203			<0.000203	
6/4/2018			<0.000203					
6/5/2018	<0.000203	<0.000203			<0.000203	<0.000203		<0.000203
6/6/2018				<0.000203			<0.000203	
11/5/2018				<0.000203				
11/6/2018	<0.000203	<0.000203	<0.000203				<0.000203	<0.000203
11/7/2018					<0.000203	<0.000203		
3/26/2019	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203		<0.000203
3/27/2019			<0.000203				<0.000203	
9/9/2019	<0.000203	<0.000203	<0.000203					
9/10/2019				<0.000203	<0.000203	<0.000203	<0.000203	
9/11/2019								<0.000203
4/21/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203			<0.000203
4/22/2020						<0.000203	<0.000203	
8/11/2020	<0.000203						<0.000203	
8/12/2020		<0.000203			<0.000203	<0.000203		
8/17/2020			<0.000203					
8/18/2020				<0.000203				<0.000203
3/9/2021	<0.000203	<0.000203						
3/10/2021				7.02E-05 (J)	<0.000203	<0.000203	<0.000203	
3/15/2021								<0.000203
3/16/2021			0.00013 (J)					
8/17/2021	<0.000203	<0.000203	<0.000203					
8/18/2021								<0.000203
8/24/2021					<0.000203	<0.000203	9E-05 (J)	
8/25/2021				<0.000203				
3/28/2022			0.00012 (J)		<0.000203			
3/29/2022							7E-05 (J)	
3/30/2022				7E-05 (J)				
4/4/2022	<0.000203					<0.000203		<0.000203
4/6/2022		<0.000203						

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			<0.000203					
10/17/2022		<0.000203		0.000102 (J)	<0.000203	<0.000203		
10/18/2022	<0.000203						8.3E-05 (J)	
10/19/2022								<0.000203
5/16/2023					<0.000203	<0.000203		
5/17/2023	<0.000203		7.7E-05 (J)					
5/22/2023		<0.000203						
5/30/2023				0.000138 (J)			0.0001 (J)	<0.000203
10/23/2023	<0.000203	<0.000203						
10/24/2023			<0.000203					<0.000203
10/25/2023				9.8E-05 (J)	<0.000203	<0.000203		
11/1/2023							8.9E-05 (J)	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.000203			
4/12/2016				<0.000203			
6/1/2016				<0.000203			
8/15/2016				<0.000203			
8/16/2016			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
8/17/2016	0.000211 (J)	0.000742 (J)					
9/19/2016					<0.000203	<0.000203	<0.000203
9/20/2016	<0.000203	0.000857 (J)	<0.000203	<0.000203			
10/11/2016			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
10/12/2016	<0.000203	0.000912 (J)					
11/14/2016					<0.000203	<0.000203	<0.000203
11/15/2016	0.000216 (J)	0.000821 (J)	<0.000203	<0.000203			
1/3/2017					<0.000203	<0.000203	<0.000203
1/4/2017	<0.000203	0.000718 (J)	<0.000203	<0.000203			
1/23/2017	0.000231 (J)			<0.000203			
1/24/2017		0.000716 (J)		<0.000203	<0.000203	<0.000203	
1/25/2017							<0.000203
1/26/2017			0.000228 (J)				
5/9/2017	<0.000203	0.000746 (J)	0.000277 (J)	<0.000203	<0.000203		
5/10/2017					<0.000203	<0.000203	<0.000203
6/27/2017	<0.000203	0.00065 (J)	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
6/28/2017				<0.000203			
2/27/2018	<0.000203	0.000752 (J)	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
6/4/2018				<0.000203			
6/5/2018	<0.000203	0.000731 (J)	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
11/5/2018						<0.000203	
11/6/2018	<0.000203	0.000646 (J)	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
3/26/2019	<0.000203	0.000582 (J)	<0.000203	<0.000203	<0.000203		
3/27/2019				<0.000203	<0.000203	<0.000203	<0.000203
9/9/2019				<0.000203			
9/11/2019	<0.000203	0.000573 (J)	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
4/20/2020				<0.000203			
4/21/2020	<0.000203	0.00052 (J)	<0.000203	<0.000203			
4/22/2020					<0.000203	<0.000203	<0.000203
8/11/2020					<0.000203		
8/12/2020						<0.000203	<0.000203
8/17/2020				<0.000203			
8/18/2020	<0.000203	0.000476 (J)	<0.000203	<0.000203			
3/15/2021	0.0001 (J)	0.000536	0.000204	8.19E-05 (J)	<0.000203	<0.000203	<0.000203
3/16/2021				<0.000203			
8/17/2021				<0.000203			
8/18/2021	0.00018 (J)	0.00042	0.00019 (J)	8E-05 (J)			
8/23/2021					<0.000203	<0.000203	<0.000203
3/28/2022	0.00018 (J)	0.00043	0.00016 (J)	<0.000203	<0.000203	<0.000203	<0.000203
4/5/2022				<0.000203			
10/5/2022				<0.000203	<0.000203	<0.000203	<0.000203
10/19/2022	0.000193 (J)	0.0004	0.00011 (J)	0.000108 (J)			
5/17/2023				<0.000203			
5/22/2023						<0.000203	<0.000203
5/23/2023					<0.000203		
5/30/2023	0.000188 (J)	0.000478	0.000158 (J)	<0.000203			
10/24/2023	0.000189 (J)	0.000442	0.000109 (J)	<0.000203	<0.000203		

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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10/30/2023	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
					<0.000203	<0.000203	<0.000203

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.000203			
1/15/2019				<0.000203		<0.000203	<0.000203	<0.000203
1/16/2019		<0.000203						
1/17/2019	<0.000203							
1/30/2019			<0.000203					
9/10/2019	<0.000203						<0.000203	
9/11/2019		<0.000203	<0.000203		<0.000203	<0.000203		<0.000203
4/20/2020							<0.000203	
4/21/2020		<0.000203						
4/22/2020	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203		
4/29/2020								<0.000203
8/11/2020			<0.000203			<0.000203		
8/12/2020	<0.000203						<0.000203	
8/18/2020		<0.000203						<0.000203
8/19/2020				<0.000203	<0.000203			
3/9/2021			<0.000203			<0.000203		
3/10/2021					<0.000203		0.000171 (J)	
3/15/2021	<0.000203							<0.000203
3/16/2021		<0.000203		<0.000203				
8/23/2021	<0.000203							
8/24/2021		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
8/25/2021							8E-05 (J)	<0.000203
3/28/2022	<0.000203							
3/29/2022				<0.000203				
3/30/2022			<0.000203		<0.000203		0.00018 (J)	
4/6/2022		<0.000203				<0.000203		<0.000203
10/5/2022							9.6E-05 (J)	
10/17/2022		<0.000203	<0.000203	<0.000203				
10/18/2022					<0.000203	<0.000203		<0.000203
10/19/2022	<0.000203							
5/22/2023			<0.000203					
5/23/2023		<0.000203		<0.000203	<0.000203			
5/24/2023						<0.000203		
5/31/2023	<0.000203						0.000157 (J)	<0.000203
10/23/2023					<0.000203			
10/24/2023		<0.000203					0.000142 (J)	
10/25/2023			<0.000203	<0.000203				
10/31/2023						<0.000203		<0.000203
11/1/2023	<0.000203							

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.000203							
1/16/2019		<0.000203	<0.000203					
9/11/2019	<0.000203	<0.000203	<0.000203					
4/20/2020			<0.000203	<0.000203				
4/21/2020	<0.000203	<0.000203					<0.000203	<0.000203
5/28/2020						<0.000203		
7/6/2020					<0.000203			
8/11/2020					<0.000203	<0.000203		
8/12/2020			<0.000203					
8/17/2020				<0.000203			<0.000203	
8/19/2020	<0.000203	<0.000203						0.000334 (J)
3/8/2021					<0.000203	<0.000203		
3/9/2021	0.000682	<0.000203						
3/10/2021			0.000411	<0.000203			<0.000203	0.00017 (J)
8/17/2021					0.0001 (J)	<0.000203		
8/18/2021	9E-05 (J)	<0.000203		<0.000203			7E-05 (J)	0.00021
8/23/2021			0.00032					
3/23/2022					<0.000203	<0.000203		
3/29/2022				<0.000203				
3/30/2022							<0.000203	0.00029
4/4/2022			0.0003					
4/6/2022	0.00024	<0.000203						
10/4/2022					9.6E-05 (J)	<0.000203		
10/5/2022			0.000302					
10/18/2022				<0.000203			8.8E-05 (J)	
10/19/2022	0.000187 (J)	<0.000203						0.000463
5/16/2023			0.00019 (J)					
5/17/2023					<0.000203			
5/22/2023				0.000125 (J)		<0.000203		
5/24/2023		<0.000203						
5/30/2023	0.000152 (J)						8.5E-05 (J)	0.000412
10/18/2023					<0.000203			
10/24/2023						<0.000203		
10/25/2023	0.000127 (J)	<0.000203					7.8E-05 (J)	0.000377
10/31/2023			0.000136 (J)	0.000128 (J)				



# Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.000203							
4/12/2016	<0.000203							
5/31/2016	<0.000203							
8/17/2016	<0.000203							
10/11/2016	<0.000203							
1/24/2017	<0.000203							
5/9/2017	<0.000203							
6/28/2017	<0.000203							
2/27/2018	<0.000203							
6/5/2018	<0.000203							
11/6/2018	<0.000203							
3/27/2019	<0.000203							
9/11/2019	<0.000203							
4/20/2020				<0.000203	<0.000203		<0.000203	
4/21/2020	<0.000203							
5/28/2020		<0.000203				<0.000203		<0.000203
7/6/2020			0.000366 (J)					
8/11/2020		<0.000203	0.00042 (J)	<0.000203		<0.000203		<0.000203
8/12/2020	<0.000203				<0.000203		<0.000203	
3/8/2021		0.000287	0.000227					
3/9/2021						<0.000203		7.08E-05 (J)
3/10/2021				<0.000203	<0.000203		<0.000203	
3/16/2021	<0.000203							
8/16/2021			0.00022					
8/17/2021		0.00024				<0.000203		<0.000203
8/23/2021	<0.000203			<0.000203	<0.000203		<0.000203	
3/23/2022		0.00037	0.00014 (J)			<0.000203		0.00012 (J)
4/4/2022	<0.000203							
4/5/2022					<0.000203		<0.000203	
4/6/2022				<0.000203				
10/3/2022			9.8E-05 (J)					
10/4/2022		0.000218				<0.000203		<0.000203
10/5/2022					<0.000203		<0.000203	
10/17/2022	<0.000203			<0.000203				
5/15/2023			0.00018 (J)					
5/17/2023	<0.000203							
5/23/2023		0.000413			<0.000203	<0.000203	<0.000203	8.6E-05 (J)
5/30/2023				<0.000203				
10/18/2023			0.000166 (J)					
10/24/2023	<0.000203	0.000245				<0.000203		<0.000203
10/31/2023				<0.000203	<0.000203		<0.000203	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.000203
2/17/2016	<0.000203						<0.000203	
4/12/2016	<0.000203							
4/13/2016							<0.000203	<0.000203
5/31/2016	<0.000203						<0.000203	
6/1/2016								<0.000203
8/17/2016	<0.000203						<0.000203	<0.000203
10/11/2016	<0.000203							
10/12/2016							<0.000203	<0.000203
1/24/2017	<0.000203							
1/25/2017							<0.000203	<0.000203
5/10/2017	<0.000203						<0.000203	<0.000203
6/28/2017	<0.000203						<0.000203	<0.000203
2/27/2018	<0.000203						<0.000203	<0.000203
6/5/2018	<0.000203						<0.000203	<0.000203
11/7/2018	<0.000203						<0.000203	<0.000203
3/26/2019	<0.000203						<0.000203	<0.000203
9/10/2019	<0.000203						<0.000203	<0.000203
4/21/2020	<0.000203						<0.000203	<0.000203
8/19/2020	<0.000203						<0.000203	<0.000203
3/9/2021	0.00278						<0.000203	0.000241
8/17/2021		<0.000203	<0.000203	<0.000203	0.00012 (J)	<0.000203		
8/24/2021	0.00018 (J)						<0.000203	<0.000203
3/23/2022		<0.000203	<0.000203	7E-05 (J)	0.0001 (J)	0.00013 (J)		
3/29/2022	0.0005						<0.000203	<0.000203
10/4/2022		<0.000203	<0.000203	<0.000203	8.4E-05 (J)	0.000167 (J)		
10/18/2022	<0.000203						<0.000203	<0.000203
5/17/2023							0.000154 (J)	
5/22/2023				7.5E-05 (J)	7.8E-05 (J)			
5/23/2023		<0.000203	<0.000203					
5/30/2023	8.1E-05 (J)						<0.000203	<0.000203
10/18/2023							0.000102 (J)	
10/23/2023				<0.000203	7.4E-05 (J)			
10/24/2023		<0.000203	<0.000203					
10/25/2023	7.6E-05 (J)						0.000292	<0.000203

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.000203	
4/13/2016	<0.000203	
6/1/2016	<0.000203	
8/17/2016	<0.000203	
10/12/2016	<0.000203	
1/25/2017	<0.000203	
5/10/2017	<0.000203	
6/28/2017	<0.000203	
2/27/2018	<0.000203	
6/5/2018	<0.000203	
11/7/2018	<0.000203	
3/26/2019	<0.000203	
9/10/2019	<0.000203	<0.000203
4/20/2020		<0.000203
4/21/2020	<0.000203	
8/17/2020		<0.000203
8/18/2020	<0.000203	
3/9/2021	<0.000203	
3/10/2021		<0.000203
8/17/2021		<0.000203
8/24/2021	<0.000203	
3/29/2022	<0.000203	
4/5/2022		8E-05 (J)
10/5/2022		0.000168 (J)
10/18/2022	<0.000203	
5/17/2023		0.000254
5/30/2023	<0.000203	
10/24/2023		0.000158 (J)
10/25/2023	0.000308	

# Time Series

Constituent: Calcium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		76.3		34.6	29.8	44.4		
2/17/2016	204		18.6				47.7	57
4/12/2016					23.3	43.2	44.4	
4/13/2016	152	30.5	17.8	32.2				62.5
5/31/2016		65.9	17.7	28.8	25.9	43	45.3	
6/1/2016	183							54.4
8/15/2016	197							56.2
8/16/2016		65.6	18.4	24	25.5		49.4	
8/17/2016						35.9		
10/11/2016	186						52.7	
10/12/2016		63.4	17.3	27.8	29.5	31.1		56.6
1/24/2017	193						49.4	59.1
1/25/2017		64.2	16.6	33.7	33.6	42.7		
5/9/2017	184		18	35.5	30.4	48.1		
5/10/2017		62.6					47.4	62.5
6/27/2017	184						44.9	63.6
6/28/2017		60.8	22.6	28	26	55		
8/29/2017		61.4	23.9	26.4	22.3	83.6		
8/30/2017	182						44.4	65.7
6/4/2018	157							
6/5/2018		65.5	25.7				45.1	66.8
6/6/2018				30.1	23.7	167		
9/10/2018	219		27.2					
9/11/2018		66.1		27.4	26.8		48.5	
9/12/2018						109		76.3
11/5/2018			24.1	28.8	29.4			
11/6/2018	186						49.2	77.4
11/7/2018		68.5				105		
3/26/2019				33.7	34.1		54	90
3/27/2019	73.8	71.8	31			162		
9/10/2019	147	69.3	27.7	30.5		125	57.2	86.3
9/11/2019					53.9			
4/20/2020					40.3		61	90.8
4/21/2020	90.5			51		113		
4/22/2020		62.9	36.7					
8/11/2020						118		101
8/12/2020							72.2	
8/17/2020	81.5							
8/18/2020		74.4	37.6	42.9	95.3			
3/9/2021						115		101
3/10/2021			39.9	55.1			67.4	
3/15/2021		73.8			68.9			
3/16/2021	109							
8/17/2021	103							103
8/24/2021		83.4						
8/25/2021			57.6	45.2	74.2	134	74.8	
3/29/2022				52			75.7	
3/30/2022			39.6					
4/4/2022	106	93.7				117		
4/6/2022					55.5			101
10/5/2022	113							
10/17/2022			60.599998	49.799999	158			

# Time Series

Constituent: Calcium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
10/18/2022		105				125	89.400002	128
5/16/2023	105							
5/17/2023			57.799999					
5/23/2023							92.5	
5/24/2023		108				119		
5/30/2023				54.5				
5/31/2023					65.099998			108
10/24/2023	122						87.400002	
10/25/2023			62.400002	33.099998	24.299999			121
11/1/2023		105				152		





# Time Series

Constituent: Calcium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				106			
4/12/2016				95.2			
6/1/2016				86.1			
8/15/2016				89.7			
8/16/2016			2.02	1.24	39.5	9.33	5.54
8/17/2016	1.1	7.74					
9/19/2016					34.5	9.26	3.01
9/20/2016	0.771	2.43	1.22	1.11			
10/11/2016			1.48	90.6	1.22	32.4	9.31
10/12/2016	0.711	2.46					
11/14/2016					26.5	9.17	2.47
11/15/2016	0.641	2.28	1.36	1.34			
1/3/2017					22.6	9.66	2.94
1/4/2017	0.797	2.7	1.11	2.39			
1/23/2017	0.655			1.83			
1/24/2017		4.19		94.2	19.5	9.67	
1/25/2017							2.91
1/26/2017			1.03				
5/9/2017	0.538	3.28	0.289 (J)	90.3	0.823		
5/10/2017					15.7	9.81	2.27
6/27/2017	0.413 (J)	3.76	0.292 (J)		0.956	13.8	9.88
6/28/2017				80.7			
8/29/2017	0.504						
8/30/2017		2.31	0.336 (J)	84	1.04	11.1	10.3
6/4/2018				98.8			
6/5/2018	0.339 (J)	2.76	0.2 (J)		1.18	9.12	11.4
9/11/2018	0.776	2.04	0.171 (J)		1.5	7.5	10.5
9/12/2018				109			
11/5/2018						10.5	
11/6/2018	0.746	2	0.193 (J)	110	1.64	7.39	
3/26/2019	0.526	2.13	0.223 (J)		1.33		
3/27/2019				111		7.65	11.6
9/9/2019				98.5			
9/11/2019	0.638	1.98	0.158 (J)		0.925	6.96	9.95
4/20/2020				91.2			
4/21/2020	1.15	2.41	0.287 (J)		0.864		
4/22/2020						5.92	9.87
8/11/2020						7.46	
8/12/2020							9.48
8/17/2020				78.9			1.78
8/18/2020	0.884	2.23	0.231 (J)		0.926		
3/15/2021	0.745	1.73	0.239 (J)		0.646	5.9	2.02
3/16/2021				66.6			
8/17/2021				55.4			
8/18/2021	1.11	1.94	0.283 (J)		0.716		
8/23/2021						7.11	2.16
3/28/2022	1.37	1.94	0.172 (J)		0.542	5.95	9.61
4/5/2022				67.4			
10/5/2022				54.5		6.69	9.18
10/19/2022	1.02	1.83	0.158 (J)		0.602		
5/17/2023				56.799999			
5/22/2023						10.2	2.52



# Time Series

Constituent: Calcium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
5/23/2023					6.75		
5/30/2023	1.27	2.22	0.238 (J)	0.503			
10/24/2023	1.47	1.83	0.168 (J)	64.400002	0.529		
10/30/2023					7.22	10.5	2.11

# Time Series

Constituent: Calcium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					123			
1/15/2019				231		97.6	60.7	115
1/16/2019		19.6						
1/17/2019	25.3							
1/30/2019			2.85					
9/10/2019	12.8						97.5	
9/11/2019		22.2	1.16		84	91.6		72.1
4/20/2020							88.2	
4/21/2020		47.3						
4/22/2020	12		0.941	175	83.9	102		
4/29/2020								70.8
8/11/2020			1.06			111		
8/12/2020	9.68						115	
8/18/2020		22.9						66.7
8/19/2020				143	96			
3/9/2021			0.99			108		
3/10/2021					96.2		109	
3/15/2021	12.6							70.4
3/16/2021		24.9		148				
8/23/2021	11.1							
8/24/2021		21	1.07	143	109	115		
8/25/2021							108	78.3
3/28/2022	10.8							
3/29/2022				118				
3/30/2022			1.01		93.5		96	
4/6/2022		22.5				119		110
10/5/2022							106	
10/17/2022		23.700001	0.791	148				
10/18/2022					117	131		130
10/19/2022	12.1							
5/22/2023			0.908					
5/23/2023		22.1		158	110			
5/24/2023						126		
5/31/2023	15.6						90.199997	127
10/23/2023					85.300003			
10/24/2023		23.5					96	
10/25/2023			0.851	155				
10/31/2023						134		154
11/1/2023	16.799999							

# Time Series

Constituent: Calcium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	70							
1/16/2019		54.9	174					
9/11/2019	57.2	60.7	179					
4/20/2020			167	64.9				
4/21/2020	56.5	81.4					28.9	36.8
5/28/2020						38.6		
7/6/2020					51.1			
8/11/2020					57.8	15.9		
8/12/2020			173					
8/17/2020				57.2			27.6	
8/19/2020	59.3	99.7						27.4
3/8/2021					47.1	12.9		
3/9/2021	69.5	102						
3/10/2021			159	39.3			22.1	27.3
8/17/2021					55	16.4		
8/18/2021	74.4	106		122			17.9	19.5
8/23/2021			138					
3/23/2022					53.1	21.1		
3/29/2022				110				
3/30/2022							13.4	27.8
4/4/2022			137					
4/6/2022	69.6	110						
10/4/2022					61.5	13		
10/5/2022			137					
10/18/2022				83.400002			13.2	
10/19/2022	91.400002	119						32.400002
5/16/2023			132					
5/17/2023					50.200001			
5/22/2023				110		13.2		
5/24/2023		114						
5/30/2023	70.599998						9.8	29.6
10/18/2023					57.400002			
10/24/2023						12.5		
10/25/2023	94.5	94.800003					9.68	32.700001
10/31/2023			144	132				

# Time Series

Constituent: Calcium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	59.8							
4/12/2016	56.1							
5/31/2016	56.6							
8/17/2016	61							
10/11/2016	61.3							
1/24/2017	61							
5/9/2017	61.7							
6/28/2017	66.1							
8/30/2017	78.9							
6/5/2018	64.8							
9/11/2018	72.2							
11/6/2018	78.9							
3/27/2019	69.1							
9/11/2019	90.8							
4/20/2020				93.1	98.8		69.5	
4/21/2020	93							
5/28/2020		40.1				2.61		72.4
7/6/2020			75.6					
8/11/2020		39.5	73.1	92.8		2.43		76.7
8/12/2020	92.2				101		79.1	
3/8/2021		32.7	63.3					
3/9/2021						2.62		60.5
3/10/2021				80.8	92.8		29	
3/16/2021	99.7							
8/16/2021			61.7					
8/17/2021		38.1				1.96		69.8
8/23/2021	87.6			79.2	78.2		41.4	
3/23/2022		38.7	66			2.26		63.2
4/4/2022	98.8							
4/5/2022					95.6		17.8	
4/6/2022				78.5				
10/3/2022			91.400002					
10/4/2022		37.200001				2.52		71.599998
10/5/2022					78.800003		34.900002	
10/17/2022	119			74.599998				
5/15/2023			87.5					
5/17/2023	111							
5/23/2023		51.5			106	2.01	24.4	77.5
5/30/2023				78.699997				
10/18/2023			91.199997					
10/24/2023	101	25.9				2		78.099998
10/31/2023				90.099998	125		38.400002	

# Time Series

Constituent: Calcium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

Date	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								75.9
2/17/2016	128						158	
4/12/2016	115							
4/13/2016							151	74.1
5/31/2016	118						158	
6/1/2016								76.4
8/17/2016	120						152	74.2
10/11/2016	119							
10/12/2016							150	75.7
1/24/2017	110							
1/25/2017							137	76.1
5/10/2017	104						111	78.6
6/28/2017	98						108	76.4
8/29/2017	108						113	74.1
6/5/2018	121						186	58
9/11/2018	119						209	64.9
11/7/2018	124						175	68.1
3/26/2019	148						193	72
9/10/2019	164						188	91
4/21/2020	142						155	84.8
8/19/2020	162						147	98.6
3/9/2021	119						160	100
8/17/2021		3.97	35.7	20.3	8.92	54.6		
8/24/2021	129						123	86.4
3/23/2022		2.95	22.4	8.23	6.43	63.2		
3/29/2022	128						126	92.8
10/4/2022		2.98	16.6	9.58	7.09	69.800003		
10/18/2022	159						158	93.800003
5/17/2023						65.099998		
5/22/2023				9.84	8.28			
5/23/2023		3.14	15.4					
5/30/2023	138						140	87
10/18/2023						60.599998		
10/23/2023				8.86	7.04			
10/24/2023		3.23	14.3					
10/25/2023	147						170	92.699997

# Time Series

Constituent: Calcium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	33.9	
4/13/2016	32.5	
6/1/2016	33.9	
8/17/2016	50.3	
10/12/2016	53.3	
1/25/2017	59.9	
5/10/2017	66.5	
6/28/2017	69.8	
8/29/2017	72	
6/5/2018	95.1	
9/11/2018	122	
9/12/2018		172
11/7/2018	107	
3/26/2019	132	
9/10/2019	116	160
4/20/2020		147
4/21/2020	111	
8/17/2020		153
8/18/2020	109	
3/9/2021	82.1	
3/10/2021		157
8/17/2021		149
8/24/2021	93.1	
3/29/2022	72.1	
4/5/2022		209
10/5/2022		198
10/18/2022	111	
5/17/2023		207
5/30/2023	91.099998	
10/24/2023		161
10/25/2023	82	

# Time Series

Constituent: Chloride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		18.4		10.8	6.52	16.4		
2/17/2016	16		16.6				11.8	12.5
4/12/2016					4.47	15.9	12.6	
4/13/2016	21.5	19	17	8.2				13.6
5/31/2016		19.2	19	7.74	10.8	13.6	12.9	
6/1/2016	52.5							14.2
8/15/2016	33.3							13.6
8/16/2016		17.7	17	12.5	16.6		10.2	
8/17/2016						12.8		
10/11/2016	22.2						10.2	
10/12/2016		16.8	16.2	15.7	18.5	16.3		13.8
1/24/2017	18.4						11.2	14.2
1/25/2017		18.6	18	24.4	22	16.4		
5/9/2017	30		23	15	10	19		
5/10/2017		22					14	18
6/27/2017	29						14	17
6/28/2017		20	24	12	9.4	17		
8/29/2017		20	15	10	9.3	17		
8/30/2017	23						14	16
6/4/2018	22							
6/5/2018		18	16				13	15
6/6/2018				11	6.1	14		
9/10/2018	22		13					
9/11/2018		19		12	14		14	
9/12/2018						14		17
11/5/2018			13	17	18			
11/6/2018	17						14	15
11/7/2018		19				15		
3/26/2019				14.5	4.7		13	9.27
3/27/2019	18	17.1	14.2			14.9		
9/10/2019	18.1	16.5	8.88	10.9		13.5	12.8	12.7
9/11/2019					12.3			
4/20/2020					4.7		12	12.1
4/21/2020	19.5			9.49		14.8		
4/22/2020		17.6	20.5					
8/11/2020						12.7		12.1
8/12/2020							11.4	
8/17/2020	23.2							
8/18/2020		21.3	16.2	6.46	8.24			
3/9/2021						10.4		12
3/10/2021			17.1	9.3			11.9	
3/15/2021		23.2			7.68			
3/16/2021	16.6							
8/17/2021	34.4							10.4
8/24/2021		22.4						
8/25/2021			14.4	7.43	6.37	11.5	10.3	
3/29/2022				11.8			10.3	
3/30/2022			12.7					
4/4/2022	41.75 (D)	16.8 (D)				9.875 (D)		
4/6/2022					3.71			11.8 (D)
10/5/2022	7.1							
10/17/2022			22.4	12.9	12			

# Time Series

Constituent: Chloride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
10/18/2022		17.200001				10.4	8.54	10.1
5/16/2023	40.799999							
5/17/2023			18.799999					
5/23/2023							8.99	
5/24/2023		13.5				10		
5/30/2023				11.7				
5/31/2023					4.19			8.96
10/24/2023	39.5						9.61	
10/25/2023			19.1	4.69	11.4			8.33
11/1/2023		15.3				10.1		







# Time Series

Constituent: Chloride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				25.2			
4/12/2016				24.6			
6/1/2016				24.5			
8/15/2016				24.2			
8/16/2016			2.21	2.54	5.32	4.24	4.88
8/17/2016	1.78	1.77					
9/19/2016					5.29	4.13	4.45
9/20/2016	1.61	1.56	2.12	2.51			
10/11/2016			2.24	24.4	2.34	5.26	4.07
10/12/2016	1.51	1.54					
11/14/2016					5.28	4.08	4.42
11/15/2016	1.5	1.53	6.65	2.1			
1/3/2017					5.18	4.06	5.18
1/4/2017	1.53	1.58	2.15	2.44			
1/23/2017	1.62			2.37			
1/24/2017		1.71		24.6	5.41	4.4	
1/25/2017							5.66
1/26/2017			2.31				
5/9/2017	2.2	2.1	2.3	27	2.8		
5/10/2017					5.8	4.4	8
6/27/2017	1.9 (J)	2	2.1		2.1	5.4	4
6/28/2017				26			
8/29/2017	2						
8/30/2017		1.5 (J)	2.8	26	3	6	4.8
6/4/2018				27			
6/5/2018	1.9 (J)	1.2 (J)	1.8 (J)		2.3	5.2	3.8
9/11/2018	<2	<2	<2		1.5 (J)	5.5	4.1
9/12/2018				26			
11/5/2018						3.9	
11/6/2018	1.9 (J)	<2	<2	26	1.4 (J)	5.1	
3/26/2019	2.18	1.2	1.07		2.42		
3/27/2019				24.8		5.26	3.9
9/9/2019				23.8			
9/11/2019	1.7	1.26	1.19		3.72	5.31	4.21
4/20/2020				24.5			
4/21/2020	1.9	1.32	1.09		3.89		
4/22/2020						5.37	4
8/11/2020					5.45		
8/12/2020						4.17	4.46
8/17/2020				24.6			
8/18/2020	1.63	1.38	1.05		3.8		
3/15/2021	2.46	1.27	1.25		4.38	5.47	5.57
3/16/2021				24.4			
8/17/2021				21.3			
8/18/2021	2.45	1.42	1.42		4.46		
8/23/2021						6.37	5.61
3/28/2022	1.96	1.35	1.24		4.12	6	3.98
4/5/2022				21.1 (D)			
10/5/2022				23.1		7.1	4.04
10/19/2022	2.01	1.23	1.08		3.7		
5/17/2023				21.6			
5/22/2023						3.95	4.53

# Time Series

Constituent: Chloride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
5/23/2023					7.44			
5/30/2023	2.05	1.35	1.27		3.16			
10/24/2023	2.08	1.28	1.16	21	2.86			
10/30/2023					7.37	3.92		3.92

# Time Series

Constituent: Chloride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					37.9			
1/15/2019				13.4		14.3	13	16.6
1/16/2019		3.1						
1/17/2019	7.87							
1/30/2019			3.04					
9/10/2019	5.54						10.5	
9/11/2019		1.15	3.95		3.82	14.1		16.5
4/20/2020							10.8	
4/21/2020		3.62						
4/22/2020	7.6		4.4	10.3	2.25	12.9		
4/29/2020								16.1
8/11/2020			3.28			7.85		
8/12/2020	2.07						8.34	
8/18/2020		1.12						15.9
8/19/2020				13.9	3.4			
3/9/2021			2.9			8.06		
3/10/2021					2.3		6.74	
3/15/2021	5.81							15.9
3/16/2021		1.91		13				
8/23/2021	4.36							
8/24/2021		2.79	2.91	9.19	4.46	7.38		
8/25/2021							6.66	14.4
3/28/2022	3.52							
3/29/2022				5.57				
3/30/2022			3.04		3.8		5.72	
4/6/2022		1.48				8.39 (D)		13.6
10/5/2022							7.05	
10/17/2022		2.97	2.36	13.2				
10/18/2022					3.6	6.02		13.8
10/19/2022	3.71							
5/22/2023			2.34					
5/23/2023		2.92		12.9	4.23			
5/24/2023						6.51		
5/31/2023	6.86						6.63	13.3
10/23/2023					2.34			
10/24/2023		4.15					7.82	
10/25/2023			1.99	12.3				
10/31/2023						4.89		12.8
11/1/2023	6.78							

# Time Series

Constituent: Chloride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	19.9							
1/16/2019		26.1	12.3					
9/11/2019	20.7	31.4	11.8					
4/20/2020			12	10.9				
4/21/2020	19.9	40.4					12.3	11.3
5/28/2020						4.92		
7/6/2020				4.5				
8/11/2020				4.27		3.18		
8/12/2020			10.8					
8/17/2020				8.99			11.9	
8/19/2020	18.2	46.9						7.53
3/8/2021					8.51	8.78		
3/9/2021	18.4	41.6						
3/10/2021			11.9	6.5			8.31	7.57
8/17/2021					7.84	8.79		
8/18/2021	17	35.8		9.94			4.07	5.3
8/23/2021			13.1					
3/23/2022					7.84	8.8		
3/29/2022				9.58				
3/30/2022							3.44	8.12
4/4/2022			13.7					
4/6/2022	15.65 (D)	37.7 (D)						
10/4/2022					5.71	3.86		
10/5/2022			7.16					
10/18/2022				9.25			4.34	
10/19/2022	17.6	33.900002						9.04
5/16/2023			14.9					
5/17/2023					5.62			
5/22/2023				8.49			3.95	
5/24/2023		30.5						
5/30/2023	16.6						2.77	8.09
10/18/2023				9.4				
10/24/2023						3.28		
10/25/2023	16.200001	41.099998					3.12	7.97
10/31/2023			12.2	10.3				

# Time Series

Constituent: Chloride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	16.4							
4/12/2016	16.6							
5/31/2016	16.8							
8/17/2016	16.4							
10/11/2016	15.2							
1/24/2017	15.1							
5/9/2017	17							
6/28/2017	17							
8/30/2017	17							
6/5/2018	15							
9/11/2018	14							
11/6/2018	13							
3/27/2019	16.1							
9/11/2019	11.6							
4/20/2020				23.9	9.74		7.88	
4/21/2020	12.3							
5/28/2020		13.4				6.88		12.1
7/6/2020			103					
8/11/2020		11.2	87.4	21.2		6.21		12.1
8/12/2020	13				10.8		6.3	
3/8/2021		13.7	90					
3/9/2021						5.06		10.4
3/10/2021				19.4	11.5		55.3	
3/16/2021	10.9							
8/16/2021			60.9					
8/17/2021		14.5				4.25		10.8
8/23/2021	11.6			21.1	6.89		8.41	
3/23/2022		17.7	123			4.56		9.19
4/4/2022	9.63							
4/5/2022					8.175 (D)		19.55 (D)	
4/6/2022				8.09 (D)				
10/3/2022			62.400002					
10/4/2022		12.8				4.27		9.72
10/5/2022					<1		5.31	
10/17/2022	10.8			16.200001				
5/15/2023			74.199997					
5/17/2023	8.4							
5/23/2023		14.1			5.71	2.98	11.4	8.54
5/30/2023				12.7				
10/18/2023			85.699997					
10/24/2023	10.7	5.1				3.27		10.2
10/31/2023				15.8	7.65		4.83	

# Time Series

Constituent: Chloride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								67.9
2/17/2016	31.8						62.7	
4/12/2016	28.9							
4/13/2016							57.8	64.1
5/31/2016	28.7						55.6	
6/1/2016								66.3
8/17/2016	32.2						53.3	56.7
10/11/2016	34.2							
10/12/2016							51.2	56.1
1/24/2017	38.1							
1/25/2017							44.8	53.6
5/10/2017	41						44	48
6/28/2017	36						45	49
8/29/2017	35						43	52
6/5/2018	32						49	38
9/11/2018	36						52	37
11/7/2018	30						58	41
3/26/2019	31.9						71	39.7
9/10/2019	27.3						67	56.1
4/21/2020	37.4						66.2	69.5
8/19/2020	39.6						123	70.5
3/9/2021	47.5						80.7	106
8/17/2021		4.94	3.13	3.28	3.37	10.9		
8/24/2021	56.6						91.7	90.8
3/23/2022		4.08	2.07	3.19	2.42	16.1		
3/29/2022	45.3						94.7	95.4
10/4/2022		3.66	1.75	2.99	2.58	9.9		
10/18/2022	45						196	96.099998
5/17/2023						9.97		
5/22/2023				2.05	2.59			
5/23/2023		3.7	2.16					
5/30/2023	39.400002						208	76.599998
10/18/2023						9.31		
10/23/2023				2.16	2.46			
10/24/2023		3.99	2.31					
10/25/2023	40.5						170	69.900002



# Time Series

Constituent: Chloride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	15.6	
4/13/2016	14.3	
6/1/2016	12.6	
8/17/2016	14.4	
10/12/2016	16.4	
1/25/2017	20	
5/10/2017	24	
6/28/2017	25	
8/29/2017	25	
6/5/2018	25	
9/11/2018	26	
9/12/2018		12
11/7/2018	25	
3/26/2019	25.3	
9/10/2019	28	10.9
4/20/2020		9.87
4/21/2020	24.2	
8/17/2020		9.78
8/18/2020	31.4	
3/9/2021	53.9	
3/10/2021		8.48
8/17/2021		8.13
8/24/2021	90.7	
3/29/2022	225	
4/5/2022		7.86 (D)
10/5/2022		6.54
10/18/2022	106	
5/17/2023		7.79
5/30/2023	105	
10/24/2023		7.95
10/25/2023	62.299999	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.001015		<0.001015	<0.001015	<0.001015		
2/17/2016	<0.001015		<0.001015				<0.001015	<0.001015
4/12/2016					<0.001015	<0.001015	<0.001015	
4/13/2016	<0.001015	<0.001015	<0.001015	<0.001015				<0.001015
5/31/2016		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
6/1/2016	<0.001015							<0.001015
8/15/2016	<0.001015							<0.001015
8/16/2016		<0.001015	<0.001015	<0.001015	0.00381 (J)		<0.001015	
8/17/2016						<0.001015		
10/11/2016	<0.001015						<0.001015	
10/12/2016		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
1/24/2017	<0.001015						<0.001015	<0.001015
1/25/2017		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
5/9/2017	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015		
5/10/2017		<0.001015					<0.001015	<0.001015
6/27/2017	<0.001015						<0.001015	<0.001015
6/28/2017		<0.001015	<0.001015	<0.001015	0.00219 (J)	<0.001015		
2/27/2018	<0.001015	<0.001015	<0.001015			<0.001015		
2/28/2018				<0.001015	<0.001015		<0.001015	<0.001015
6/4/2018	<0.001015							
6/5/2018		<0.001015	<0.001015				<0.001015	<0.001015
6/6/2018				<0.001015	<0.001015	<0.001015		
11/5/2018			<0.001015	<0.001015	<0.001015			
11/6/2018	<0.001015						<0.001015	<0.001015
11/7/2018		<0.001015				<0.001015		
3/26/2019				<0.001015	<0.001015		<0.001015	<0.001015
3/27/2019	<0.001015	<0.001015	<0.001015			<0.001015		
9/10/2019	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015
9/11/2019					<0.001015			
4/20/2020					<0.001015		<0.001015	<0.001015
4/21/2020	<0.001015			<0.001015		<0.001015		
4/22/2020		<0.001015	<0.001015					
8/11/2020						<0.001015		<0.001015
8/12/2020							<0.001015	
8/17/2020	<0.001015							
8/18/2020		<0.001015	<0.001015	<0.001015	<0.001015			
3/9/2021						0.000357 (J)		0.000444 (J)
3/10/2021			<0.001015	0.000224 (J)			0.000301 (J)	
3/15/2021		0.000357 (J)			0.000311 (J)			
3/16/2021	0.000341 (J)							
8/17/2021	0.00034 (J)							0.0004 (J)
8/24/2021		0.00036 (J)						
8/25/2021			0.00027 (J)	0.00035 (J)	0.00026 (J)	0.00023 (J)	0.00027 (J)	
3/29/2022				0.00043 (J)			<0.001015	
3/30/2022			0.00023 (J)					
4/4/2022	0.00045 (J)	<0.001015				0.00025 (J)		
4/6/2022					0.0003 (J)			0.00034 (J)
10/5/2022	0.000287 (J)							
10/17/2022			0.000286 (J)	0.000332 (J)	0.000237 (J)			
10/18/2022		0.000217 (J)				<0.001015	<0.001015	0.000267 (J)
5/16/2023	0.000326 (J)							
5/17/2023			0.000293 (J)					

# Time Series

Constituent: Chromium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							<0.001015	
5/24/2023		0.000338 (J)				0.000305 (J)		
5/30/2023				<0.001015				
5/31/2023					0.000232 (J)			0.000327 (J)
10/24/2023	0.000481 (J)						<0.001015	
10/25/2023			<0.001015	<0.001015	<0.001015			<0.001015
11/1/2023		0.000231 (J)				<0.001015		

# Time Series

Constituent: Chromium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.001015				
2/17/2016	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	
4/12/2016		<0.001015			<0.001015	<0.001015	<0.001015	
4/13/2016	<0.001015		<0.001015	<0.001015				
6/1/2016	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
8/15/2016	<0.001015	<0.001015	<0.001015					
8/16/2016				<0.001015	<0.001015	<0.001015		
8/17/2016							<0.001015	<0.001015
9/20/2016								<0.001015
10/11/2016			<0.001015		<0.001015	<0.001015	<0.001015	
10/12/2016	<0.001015	<0.001015		<0.001015				<0.001015
11/15/2016								<0.001015
1/4/2017								<0.001015
1/23/2017								<0.001015
1/24/2017	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	
1/25/2017				<0.001015				
5/9/2017			<0.001015	<0.001015	<0.001015		<0.001015	<0.001015
5/10/2017	<0.001015	<0.001015				<0.001015		
6/27/2017	<0.001015	<0.001015			<0.001015			<0.001015
6/28/2017			<0.001015	<0.001015		<0.001015	<0.001015	
2/27/2018			<0.001015		<0.001015	<0.001015		<0.001015
2/28/2018	<0.001015	<0.001015		<0.001015			<0.001015	
6/4/2018			<0.001015					
6/5/2018	<0.001015	<0.001015			<0.001015	<0.001015		<0.001015
6/6/2018				<0.001015			<0.001015	
11/5/2018				<0.001015				
11/6/2018	<0.001015	<0.001015	<0.001015				<0.001015	<0.001015
11/7/2018					<0.001015	<0.001015		
3/26/2019	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015		<0.001015
3/27/2019			<0.001015				<0.001015	
9/9/2019	<0.001015	<0.001015	<0.001015					
9/10/2019				<0.001015	<0.001015	<0.001015	<0.001015	
9/11/2019								<0.001015
4/21/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015			<0.001015
4/22/2020						<0.001015	<0.001015	
8/11/2020	<0.001015						<0.001015	
8/12/2020		<0.001015			<0.001015	<0.001015		
8/17/2020			<0.001015					
8/18/2020				<0.001015				<0.001015
3/9/2021	0.000216 (J)	0.000346 (J)						
3/10/2021				0.000333 (J)	0.000432 (J)	0.000433 (J)	0.0003 (J)	
3/15/2021								0.000474 (J)
3/16/2021			0.0004 (J)					
8/17/2021	0.00022 (J)	0.00023 (J)	0.00267					
8/18/2021								0.00022 (J)
8/24/2021					0.00043 (J)	0.00034 (J)	0.00028 (J)	
8/25/2021				0.00027 (J)				
3/28/2022			0.0003 (J)		0.00034 (J)			
3/29/2022							0.00041 (J)	
3/30/2022				0.00022 (J)				
4/4/2022	0.00022 (J)					0.00037 (J)		0.0003 (J)
4/6/2022		0.00031 (J)						

# Time Series

Constituent: Chromium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

Date	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			0.000256 (J)					
10/17/2022		0.000294 (J)		0.00026 (J)	0.000347 (J)	0.000301 (J)		
10/18/2022	0.000211 (J)						<0.001015	
10/19/2022								0.00024 (J)
5/16/2023					0.000304 (J)	0.000248 (J)		
5/17/2023	0.0003 (J)		0.000305 (J)					
5/22/2023		0.000293 (J)						
5/30/2023				0.000232 (J)			0.000249 (J)	0.00028 (J)
10/23/2023	<0.001015	<0.001015						
10/24/2023			0.000356 (J)					<0.001015
10/25/2023				<0.001015	<0.001015	<0.001015		
11/1/2023							0.000214 (J)	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016			<0.001015				
4/12/2016			<0.001015				
6/1/2016			<0.001015				
8/15/2016			<0.001015				
8/16/2016		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
8/17/2016	<0.001015	<0.001015					
9/19/2016					<0.001015	<0.001015	<0.001015
9/20/2016	<0.001015	<0.001015	<0.001015	<0.001015			
10/11/2016			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/12/2016	<0.001015	<0.001015					
11/14/2016					<0.001015	<0.001015	<0.001015
11/15/2016	<0.001015	<0.001015	<0.001015	<0.001015			
1/3/2017					<0.001015	<0.001015	<0.001015
1/4/2017	<0.001015	<0.001015	<0.001015	<0.001015			
1/23/2017	<0.001015			<0.001015			
1/24/2017		<0.001015	<0.001015		<0.001015	<0.001015	
1/25/2017							<0.001015
1/26/2017			<0.001015				
5/9/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
5/10/2017					<0.001015	<0.001015	<0.001015
6/27/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/28/2017				<0.001015			
2/27/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/4/2018				<0.001015			
6/5/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
11/5/2018						<0.001015	
11/6/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
3/26/2019	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
3/27/2019				<0.001015	<0.001015	<0.001015	<0.001015
9/9/2019				<0.001015			
9/11/2019	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
4/20/2020				<0.001015			
4/21/2020	<0.001015	<0.001015	<0.001015	<0.001015			
4/22/2020					<0.001015	<0.001015	<0.001015
8/11/2020					<0.001015		
8/12/2020						<0.001015	<0.001015
8/17/2020				<0.001015			
8/18/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
3/15/2021	0.000541 (J)	0.000995 (J)	0.000393 (J)		0.000502 (J)	0.000468 (J)	0.000431 (J)
3/16/2021				0.000347 (J)			
8/17/2021				0.00032 (J)			
8/18/2021	0.00032 (J)	0.00071 (J)	0.00026 (J)		0.00033 (J)		
8/23/2021						0.00042 (J)	0.00038 (J)
3/28/2022	0.00031 (J)	0.00072 (J)	0.00039 (J)		0.0004 (J)	0.00039 (J)	0.00042 (J)
4/5/2022				0.00039 (J)			
10/5/2022				0.000286 (J)		0.000268 (J)	0.000301 (J)
10/19/2022	0.00029 (J)	0.000678 (J)	0.000354 (J)		0.000423 (J)		0.000311 (J)
5/17/2023				0.000301 (J)			
5/22/2023						0.000355 (J)	0.000477 (J)
5/23/2023					0.000293 (J)		
5/30/2023	0.000287 (J)	0.000631 (J)	0.000345 (J)		0.000347 (J)		
10/24/2023	<0.001015	0.000474 (J)	<0.001015	0.000295 (J)	0.000221 (J)		

# Time Series

Constituent: Chromium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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10/30/2023	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
					0.000329 (J)	0.000409 (J)	0.000385 (J)

# Time Series

Constituent: Chromium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.0117			
1/15/2019				<0.001015		<0.001015	<0.001015	<0.001015
1/16/2019		<0.001015						
1/17/2019	<0.001015							
1/30/2019			<0.001015					
9/10/2019	<0.001015						<0.001015	
9/11/2019		<0.001015	0.0155		<0.001015	<0.001015		<0.001015
4/20/2020							<0.001015	
4/21/2020		<0.001015						
4/22/2020	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015		
4/29/2020								<0.001015
8/11/2020			<0.001015			<0.001015		
8/12/2020	<0.001015						<0.001015	
8/18/2020		<0.001015						<0.001015
8/19/2020				<0.001015	<0.001015			
3/9/2021			0.00143			0.000342 (J)		
3/10/2021					0.000421 (J)		0.000226 (J)	
3/15/2021	0.000473 (J)							0.000553 (J)
3/16/2021		0.000912 (J)		0.000381 (J)				
8/23/2021	0.0003 (J)							
8/24/2021		0.00075 (J)	0.00096 (J)	0.00026 (J)	0.00038 (J)	0.00033 (J)		
8/25/2021							0.00023 (J)	0.00039 (J)
3/28/2022	0.00035 (J)							
3/29/2022				0.00037 (J)				
3/30/2022			0.00108		0.00037 (J)		0.0003 (J)	
4/6/2022		0.00051 (J)				0.00029 (J)		0.00052 (J)
10/5/2022							<0.001015	
10/17/2022		0.000588 (J)	0.00115	0.000624 (J)				
10/18/2022					0.00022 (J)	<0.001015		0.000486 (J)
10/19/2022	0.000255 (J)							
5/22/2023			0.00101 (J)					
5/23/2023		0.000525 (J)		0.000433 (J)	0.00043 (J)			
5/24/2023						<0.001015		
5/31/2023	0.000236 (J)						<0.001015	0.000386 (J)
10/23/2023					0.000537 (J)			
10/24/2023		0.000332 (J)					<0.001015	
10/25/2023			0.00114	0.000425 (J)				
10/31/2023						<0.001015		0.000612 (J)
11/1/2023	0.000258 (J)							



# Time Series

Constituent: Chromium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.001015							
1/16/2019		<0.001015	<0.001015					
9/11/2019	0.00325 (J)	<0.001015	<0.001015					
4/20/2020			<0.001015	<0.001015				
4/21/2020	<0.001015	<0.001015					<0.001015	<0.001015
5/28/2020						<0.001015		
7/6/2020				<0.001015				
8/11/2020				<0.001015	<0.001015			
8/12/2020			<0.001015					
8/17/2020				<0.001015			<0.001015	
8/19/2020	<0.001015	<0.001015						<0.001015
3/8/2021					<0.001015	<0.001015		
3/9/2021	0.000286 (J)	0.000227 (J)						
3/10/2021			0.000428 (J)	0.000314 (J)			0.00026 (J)	0.000366 (J)
8/17/2021					0.00028 (J)	0.00039 (J)		
8/18/2021	<0.001015	<0.001015		0.0003 (J)			0.00022 (J)	0.0004 (J)
8/23/2021			0.0003 (J)					
3/23/2022					0.00032 (J)	0.0004 (J)		
3/29/2022				0.00026 (J)				
3/30/2022							0.00024 (J)	0.00021 (J)
4/4/2022			0.00022 (J)					
4/6/2022	0.00028 (J)	0.00026 (J)						
10/4/2022					0.000215 (J)	<0.001015		
10/5/2022			<0.001015					
10/18/2022				0.00023 (J)			0.000309 (J)	
10/19/2022	<0.001015	0.000235 (J)						0.000244 (J)
5/16/2023			0.000387 (J)					
5/17/2023					<0.001015			
5/22/2023				0.000234 (J)		<0.001015		
5/24/2023		0.00022 (J)						
5/30/2023	0.000242 (J)						<0.001015	0.000292 (J)
10/18/2023					<0.001015			
10/24/2023						<0.001015		
10/25/2023	<0.001015	<0.001015					<0.001015	<0.001015
10/31/2023			0.000354 (J)	0.000278 (J)				

# Time Series

Constituent: Chromium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.001015							
4/12/2016	<0.001015							
5/31/2016	<0.001015							
8/17/2016	<0.001015							
10/11/2016	<0.001015							
1/24/2017	<0.001015							
5/9/2017	<0.001015							
6/28/2017	<0.001015							
2/27/2018	<0.001015							
6/5/2018	<0.001015							
11/6/2018	<0.001015							
3/27/2019	<0.001015							
9/11/2019	<0.001015							
4/20/2020				<0.001015	<0.001015		<0.001015	
4/21/2020	<0.001015							
5/28/2020		<0.001015				<0.001015		0.00515 (J)
7/6/2020			<0.001015					
8/11/2020		<0.001015	<0.001015	<0.001015		<0.001015		<0.001015
8/12/2020	<0.001015				<0.001015		<0.001015	
3/8/2021		0.00028 (J)	<0.001015					
3/9/2021						0.000619 (J)		0.000256 (J)
3/10/2021				0.000474 (J)	0.000574 (J)		0.000271 (J)	
3/16/2021	0.000285 (J)							
8/16/2021			0.00038 (J)					
8/17/2021		0.00081 (J)				0.00064 (J)		0.00057 (J)
8/23/2021	0.00027 (J)			0.00046 (J)	0.00039 (J)		0.00029 (J)	
3/23/2022		0.00051 (J)	0.00035 (J)			0.00107		0.00031 (J)
4/4/2022	0.00025 (J)							
4/5/2022					0.0003 (J)		0.00042 (J)	
4/6/2022				0.00047 (J)				
10/3/2022			0.000213 (J)					
10/4/2022		<0.001015				0.000584 (J)		<0.001015
10/5/2022					0.000414 (J)		<0.001015	
10/17/2022	0.000348 (J)			0.000567 (J)				
5/15/2023			0.000224 (J)					
5/17/2023	<0.001015							
5/23/2023		<0.001015			0.000239 (J)	0.000518 (J)	0.000406 (J)	<0.001015
5/30/2023				0.000512 (J)				
10/18/2023			<0.001015					
10/24/2023	0.00036 (J)	<0.001015				0.000382 (J)		<0.001015
10/31/2023				0.000587 (J)	0.000374 (J)		<0.001015	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.001015
2/17/2016	<0.001015						<0.001015	
4/12/2016	<0.001015							
4/13/2016							<0.001015	<0.001015
5/31/2016	<0.001015						<0.001015	
6/1/2016								<0.001015
8/17/2016	<0.001015						<0.001015	<0.001015
10/11/2016	<0.001015							
10/12/2016							<0.001015	<0.001015
1/24/2017	<0.001015							
1/25/2017							<0.001015	<0.001015
5/10/2017	<0.001015						<0.001015	<0.001015
6/28/2017	<0.001015						<0.001015	<0.001015
2/27/2018	<0.001015						<0.001015	<0.001015
6/5/2018	<0.001015						<0.001015	<0.001015
11/7/2018	<0.001015						<0.001015	<0.001015
3/26/2019	<0.001015						<0.001015	<0.001015
9/10/2019	<0.001015						<0.001015	<0.001015
4/21/2020	<0.001015						<0.001015	<0.001015
8/19/2020	<0.001015						<0.001015	<0.001015
3/9/2021	0.000347 (J)						0.000351 (J)	0.000346 (J)
8/17/2021		0.00065 (J)	0.00057 (J)	0.00067 (J)	0.00035 (J)	0.00086 (J)		
8/24/2021	0.00026 (J)						0.00036 (J)	0.00031 (J)
3/23/2022		0.00111	0.00065 (J)	0.00072 (J)	0.00045 (J)	0.00061 (J)		
3/29/2022	<0.001015						0.00024 (J)	0.00027 (J)
10/4/2022		0.000421 (J)	0.000587 (J)	0.000435 (J)	0.000384 (J)	0.000348 (J)		
10/18/2022	0.000228 (J)						0.000297 (J)	0.000217 (J)
5/17/2023						0.00046 (J)		
5/22/2023				0.000466 (J)	<0.001015			
5/23/2023		<0.001015	0.000502 (J)					
5/30/2023	0.000234 (J)						0.000284 (J)	0.000233 (J)
10/18/2023						<0.001015		
10/23/2023				<0.001015	<0.001015			
10/24/2023		0.000237 (J)	0.00051 (J)					
10/25/2023	<0.001015						0.000431 (J)	<0.001015

# Time Series

Constituent: Chromium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.001015	
4/13/2016	<0.001015	
6/1/2016	<0.001015	
8/17/2016	<0.001015	
10/12/2016	<0.001015	
1/25/2017	<0.001015	
5/10/2017	<0.001015	
6/28/2017	<0.001015	
2/27/2018	<0.001015	
6/5/2018	<0.001015	
11/7/2018	<0.001015	
3/26/2019	<0.001015	
9/10/2019	<0.001015	<0.001015
4/20/2020		<0.001015
4/21/2020	<0.001015	
8/17/2020		<0.001015
8/18/2020	<0.001015	
3/9/2021	0.000381 (J)	
3/10/2021		0.000247 (J)
8/17/2021		0.00033 (J)
8/24/2021	0.0003 (J)	
3/29/2022	0.00027 (J)	
4/5/2022		0.00047 (J)
10/5/2022		0.000226 (J)
10/18/2022	0.000238 (J)	
5/17/2023		0.000317 (J)
5/30/2023	0.000368 (J)	
10/24/2023		0.000211 (J)
10/25/2023	0.000263 (J)	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.0135		<0.000203	<0.000203	0.00732 (J)		
2/17/2016	0.0395		0.0504				0.0169	0.016
4/12/2016					<0.000203	0.00785 (J)	0.0158	
4/13/2016	0.0452	0.0155	0.0448	<0.000203				0.0139
5/31/2016		0.0146	0.0405	<0.000203	<0.000203	0.00712 (J)	0.014	
6/1/2016	0.0576							0.0117
8/15/2016	0.0573							0.0133
8/16/2016		0.016	0.0464	<0.000203	<0.000203		0.0153	
8/17/2016						0.00545 (J)		
10/11/2016	0.0531						0.0162	
10/12/2016		0.0154	0.0489	<0.000203	<0.000203	0.00497 (J)		0.0147
1/24/2017	0.0539						0.0132	0.0122
1/25/2017		0.0139	0.0417	<0.000203	<0.000203	0.00454 (J)		
5/9/2017	0.057		0.0471	<0.000203	<0.000203	0.00488 (J)		
5/10/2017		0.0144					0.014	0.0133
6/27/2017	0.0664						0.0163	0.0141
6/28/2017		0.0134	0.0664	<0.000203	<0.000203	0.00805 (J)		
2/27/2018	0.0652	0.0148	0.0438			0.016		
2/28/2018				<0.000203	<0.000203		0.0157	0.014
6/4/2018	0.0758							
6/5/2018		0.0139	0.036				0.0148	0.0114
6/6/2018				<0.000203	<0.000203	0.024		
11/5/2018			0.0171	<0.000203	<0.000203			
11/6/2018	0.0898						0.0158	0.0141
11/7/2018		0.015				0.0124		
3/26/2019				<0.000203	<0.000203		0.0184	0.0177
3/27/2019	0.176	0.014	0.0292			0.0303		
9/10/2019	0.104	0.0191	0.02	<0.000203		0.0278	0.0201	0.0162
9/11/2019					<0.000203			
4/20/2020					<0.000203		0.0189	0.0146
4/21/2020	0.206			<0.000203		0.0339		
4/22/2020		0.0233	0.0319					
8/11/2020						0.0373		0.0148
8/12/2020							0.0184	
8/17/2020	0.195							
8/18/2020		0.0287	0.0298	<0.000203	<0.000203			
3/9/2021						0.0302		0.0162
3/10/2021			0.0197	0.00118			0.0189	
3/15/2021		0.0475			0.000312			
3/16/2021	0.257							
8/17/2021	0.24							0.0155
8/24/2021		0.0514						
8/25/2021			0.0507	0.00094	7E-05 (J)	0.0436	0.0181	
3/29/2022				0.00088			0.0172	
3/30/2022			0.0157					
4/4/2022	0.296	0.0218				0.0423		
4/6/2022					0.00126			0.0147
10/5/2022	0.226							
10/17/2022			0.0256	0.00077	0.00424			
10/18/2022		0.0223				0.0349	0.0189	0.0143
5/16/2023	0.236							
5/17/2023			0.0296					

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							0.0182	
5/24/2023		0.0176				0.0346		
5/30/2023				0.000536				
5/31/2023					0.00348			0.0136
10/24/2023	0.202						0.0192	
10/25/2023			0.0349	0.000578	0.0018			0.0135
11/1/2023		0.0177				0.0308		

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.000203				
2/17/2016	0.0101	0.0227	0.00989 (J)		<0.000203	0.00219 (J)	0.00683 (J)	
4/12/2016		0.0209			<0.000203	<0.000203	0.00656 (J)	
4/13/2016	0.0109		0.0106	<0.000203				
6/1/2016	0.0134	0.02	0.011	<0.000203	<0.000203	<0.000203	0.00637 (J)	
8/15/2016	0.0134	0.0225	0.0117					
8/16/2016				<0.000203	<0.000203	<0.000203		
8/17/2016							0.00659 (J)	0.0167
9/20/2016								0.0122
10/11/2016			0.0117		<0.000203	<0.000203	0.00687 (J)	
10/12/2016	0.0204	0.0206		<0.000203				0.00839 (J)
11/15/2016								0.00562 (J)
1/4/2017								0.00655 (J)
1/23/2017								0.0116
1/24/2017	0.0157	0.015	0.00863 (J)		<0.000203	<0.000203	0.00522 (J)	
1/25/2017				<0.000203				
5/9/2017			0.00975 (J)	<0.000203	<0.000203		0.00646 (J)	0.0167
5/10/2017	0.0179	0.0141				<0.000203		
6/27/2017	0.0166	0.0144			<0.000203			0.0109
6/28/2017			0.0102	<0.000203		<0.000203	0.00721 (J)	
2/27/2018			0.00924 (J)		<0.000203	<0.000203		0.00278 (J)
2/28/2018	0.0251	0.0136		<0.000203			0.00771 (J)	
6/4/2018			0.00866 (J)					
6/5/2018	0.0456	0.0138			<0.000203	<0.000203		0.00223 (J)
6/6/2018				<0.000203			0.00712 (J)	
11/5/2018				<0.000203				
11/6/2018	0.0321	0.0158	0.0101				0.00791	0.00202 (J)
11/7/2018					<0.000203	<0.000203		
3/26/2019	0.0192	0.0161		<0.000203	<0.000203	<0.000203		<0.000203
3/27/2019			0.0131				0.0114	
9/9/2019	0.0121	0.0174	0.0154					
9/10/2019				<0.000203	<0.000203	<0.000203	0.0127	
9/11/2019								<0.000203
4/21/2020	0.0158	0.0173	0.0194	<0.000203	<0.000203			<0.000203
4/22/2020						<0.000203	0.0133	
8/11/2020	0.0122						0.0126	
8/12/2020		0.0152			<0.000203	<0.000203		
8/17/2020			0.0249					
8/18/2020				<0.000203				0.00279 (J)
3/9/2021	0.0151	0.017						
3/10/2021				0.00204	<0.000203	0.000676	0.0115	
3/15/2021								0.000606
3/16/2021			0.0272					
8/17/2021	0.0109	0.0175	0.0296					
8/18/2021								0.00067
8/24/2021					<0.000203	0.00073	0.0117	
8/25/2021				0.00147				
3/28/2022			0.0309		<0.000203			
3/29/2022							0.0101	
3/30/2022				0.00284				
4/4/2022	0.0115					0.00073		0.00045
4/6/2022		0.0183						

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			0.0293					
10/17/2022		0.0201		0.00501	<0.000203	0.000595		
10/18/2022	0.00934						0.00995	
10/19/2022								0.000438
5/16/2023					<0.000203	0.000596		
5/17/2023	0.00834		0.0394					
5/22/2023		0.019						
5/30/2023				0.00318			0.016	0.000497
10/23/2023	0.00717	0.022						
10/24/2023			0.0378					0.000546
10/25/2023				0.00285	<0.000203	0.000441		
11/1/2023							0.0116	



# Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				0.00507 (J)			
4/12/2016				0.0047 (J)			
6/1/2016				0.00372 (J)			
8/15/2016				0.0039 (J)			
8/16/2016			0.0122	0.00548 (J)	<0.000203	<0.000203	0.00923 (J)
8/17/2016	0.00692 (J)	0.00599 (J)					
9/19/2016					0.00242 (J)	<0.000203	0.00539 (J)
9/20/2016	0.00232 (J)	0.00466 (J)	0.012	0.0026 (J)			
10/11/2016			0.0135	0.00415 (J)	0.00214 (J)	0.0024 (J)	<0.000203
10/12/2016	<0.000203	0.00394 (J)					
11/14/2016					<0.000203	<0.000203	0.00399 (J)
11/15/2016	<0.000203	0.00296 (J)	0.00938 (J)	<0.000203			
1/3/2017					0.00217 (J)	<0.000203	0.0037 (J)
1/4/2017	<0.000203	0.00448 (J)	0.00859 (J)	<0.000203			
1/23/2017	0.00203 (J)			<0.000203			
1/24/2017		0.00259 (J)		0.00383 (J)	0.00239 (J)	<0.000203	
1/25/2017							0.0077 (J)
1/26/2017			0.0104				
5/9/2017	<0.000203	<0.000203	0.0119	0.00396 (J)	<0.000203		
5/10/2017					<0.000203	<0.000203	0.00291 (J)
6/27/2017	<0.000203	<0.000203	0.0106		<0.000203	<0.000203	0.00247 (J)
6/28/2017				0.00336 (J)			
2/27/2018	<0.000203	<0.000203	0.0027 (J)	0.00442 (J)	<0.000203	<0.000203	<0.000203
6/4/2018				0.0038 (J)			
6/5/2018	<0.000203	<0.000203	0.00317 (J)		<0.000203	<0.000203	<0.000203
11/5/2018						<0.000203	
11/6/2018	<0.000203	<0.000203	0.00367 (J)	0.00439 (J)	<0.000203	<0.000203	<0.000203
3/26/2019	<0.000203	<0.000203	<0.000203		<0.000203		
3/27/2019				0.00463 (J)	<0.000203	<0.000203	<0.000203
9/9/2019				0.00413 (J)			
9/11/2019	<0.000203	<0.000203	0.00265 (J)		<0.000203	<0.000203	<0.000203
4/20/2020				0.00396 (J)			
4/21/2020	<0.000203	<0.000203	<0.000203		<0.000203		
4/22/2020					<0.000203	<0.000203	<0.000203
8/11/2020					<0.000203		
8/12/2020						<0.000203	<0.000203
8/17/2020				<0.000203			
8/18/2020	<0.000203	<0.000203	0.00224 (J)		<0.000203		
3/15/2021	0.000139 (J)	0.000452	0.00145		0.000137 (J)	0.000624	0.000908
3/16/2021				0.00076			
8/17/2021				0.00039			
8/18/2021	0.00016 (J)	0.00036	0.0019		0.00011 (J)		
8/23/2021						0.0006	0.00105
3/28/2022	0.00014 (J)	0.00052	0.00079		7E-05 (J)	0.00061	<0.000203
4/5/2022				0.00083			
10/5/2022				0.000297		0.000728	<0.000203
10/19/2022	0.000139 (J)	0.000326	0.00112		8E-05 (J)		0.000909
5/17/2023				0.000658			
5/22/2023						<0.000203	0.00117
5/23/2023					0.000627		
5/30/2023	0.00012 (J)	0.000213	0.00097		<0.000203		
10/24/2023	0.000152 (J)	0.000258	0.00102	0.000413	<0.000203		

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
10/30/2023					0.000715	<0.000203	0.00108

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.000203			
1/15/2019				0.0407		0.0173	0.0203	0.0044 (J)
1/16/2019		<0.000203						
1/17/2019	0.033							
1/30/2019			<0.000203					
9/10/2019	0.0131						0.0139	
9/11/2019		<0.000203	<0.000203		0.00363 (J)	0.0194		0.00897
4/20/2020							0.0132	
4/21/2020		<0.000203						
4/22/2020	0.00675		<0.000203	0.0327	<0.000203	0.0192		
4/29/2020								0.00777
8/11/2020			<0.000203			0.0176		
8/12/2020	0.00222 (J)						0.00717	
8/18/2020		<0.000203						0.00814
8/19/2020				0.0176	<0.000203			
3/9/2021			0.000522			0.0178		
3/10/2021					0.000455		0.00791	
3/15/2021	0.00198							0.00472
3/16/2021		<0.000203		0.0225				
8/23/2021	0.00159							
8/24/2021		<0.000203	0.00032	0.0228	0.00071	0.0183		
8/25/2021							0.00901	0.0101
3/28/2022	0.00117							
3/29/2022				0.0198				
3/30/2022			0.0007		0.00034		0.0103	
4/6/2022		8E-05 (J)				0.0173		0.0185
10/5/2022							0.00884	
10/17/2022		<0.000203	0.00039	0.00563				
10/18/2022					0.000519	0.0151		0.015
10/19/2022	0.00114							
5/22/2023			0.000322					
5/23/2023		<0.000203		0.0147	0.000842			
5/24/2023						0.0153		
5/31/2023	0.00151						0.0131	0.018
10/23/2023					0.000571			
10/24/2023		<0.000203					0.0123	
10/25/2023			0.000572	0.00966				
10/31/2023						0.0162		0.0233
11/1/2023	0.00155							

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	0.0281							
1/16/2019		0.0131	0.106					
9/11/2019	0.0449	0.0143	0.106					
4/20/2020			0.324	0.00451 (J)				
4/21/2020	0.0359	0.0162					0.00236 (J)	0.00799
5/28/2020						<0.000203		
7/6/2020					<0.000203			
8/11/2020					<0.000203	<0.000203		
8/12/2020			0.273					
8/17/2020				0.00458 (J)			<0.000203	
8/19/2020	0.037	0.0173						0.00853
3/8/2021					0.00155	<0.000203		
3/9/2021	0.0559	0.0175						
3/10/2021			0.415	0.00442			0.000388	0.00662
8/17/2021					0.00295	0.00025		
8/18/2021	0.0436	0.0196		0.0119			0.0004	0.00507
8/23/2021			0.428					
3/23/2022					0.0053	0.00025		
3/29/2022				0.0108				
3/30/2022							0.00018 (J)	0.00562
4/4/2022			0.323					
4/6/2022	0.0651	0.0184						
10/4/2022					0.00561	0.000117 (J)		
10/5/2022			0.288					
10/18/2022				0.00703			0.000226	
10/19/2022	0.0693	0.02						0.00683
5/16/2023			0.25					
5/17/2023					0.00276			
5/22/2023				0.0097		7.6E-05 (J)		
5/24/2023		0.0181						
5/30/2023	0.05						0.000144 (J)	0.00769
10/18/2023					0.00337			
10/24/2023						<0.000203		
10/25/2023	0.0411	0.017					0.000143 (J)	0.00815
10/31/2023			0.251	0.00947				

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.0216							
4/12/2016	0.0205							
5/31/2016	0.0196							
8/17/2016	0.0169							
10/11/2016	0.0157							
1/24/2017	0.00858 (J)							
5/9/2017	0.00755 (J)							
6/28/2017	0.0069 (J)							
2/27/2018	0.00471 (J)							
6/5/2018	0.00481 (J)							
11/6/2018	0.00545							
3/27/2019	0.00614							
9/11/2019	0.00767							
4/20/2020				0.119	0.0203		0.0862	
4/21/2020	0.00601							
5/28/2020		0.00801				<0.000203		0.0445
7/6/2020			0.0158					
8/11/2020		0.0056	0.0129	0.0859		<0.000203		0.022
8/12/2020	0.00678				0.0272		0.0857	
3/8/2021		0.00553	0.0153					
3/9/2021						0.000738		0.0263
3/10/2021				0.0204	0.0239		0.0345	
3/16/2021	0.00857							
8/16/2021			0.0146					
8/17/2021		0.00608				0.00095		0.0216
8/23/2021	0.00645			0.0233	0.031		0.0477	
3/23/2022		0.0096	0.0164			0.00102		0.0281
4/4/2022	0.0104							
4/5/2022					0.0265		0.0191	
4/6/2022				0.00706				
10/3/2022			0.0122					
10/4/2022		0.00685				0.000975		0.0187
10/5/2022					0.0331		0.0334	
10/17/2022	0.0062			0.00583				
5/15/2023			0.011					
5/17/2023	0.00833							
5/23/2023		0.00702			0.0346	0.000861	0.0208	0.0275
5/30/2023				0.00406				
10/18/2023			0.0122					
10/24/2023	0.0082	0.00517				0.000696		0.0199
10/31/2023				0.0038	0.0476		0.044	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

Date	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								0.0129
2/17/2016	<0.000203						<0.000203	
4/12/2016	<0.000203							
4/13/2016							0.00218 (J)	0.0139
5/31/2016	0.00389 (J)						0.00328 (J)	
6/1/2016								0.0139
8/17/2016	0.00234 (J)						0.00217 (J)	0.0138
10/11/2016	0.00202 (J)							
10/12/2016							0.00225 (J)	0.0138
1/24/2017	<0.000203							
1/25/2017							<0.000203	0.0115
5/10/2017	<0.000203						<0.000203	0.0125
6/28/2017	<0.000203						<0.000203	0.0137
2/27/2018	<0.000203						<0.000203	0.00698 (J)
6/5/2018	0.00237 (J)						<0.000203	0.00478 (J)
11/7/2018	0.00258 (J)						0.00277 (J)	0.00651
3/26/2019	0.00223 (J)						0.0024 (J)	0.00445 (J)
9/10/2019	0.00306 (J)						0.0034 (J)	0.0108
4/21/2020	0.00228 (J)						0.00206 (J)	0.0111
8/19/2020	0.00278 (J)						0.0046 (J)	0.00975
3/9/2021	0.00367						0.00181	0.00707
8/17/2021		0.00077	0.00049	0.00033	0.00081	0.00348		
8/24/2021	0.00419						0.00333	0.00898
3/23/2022		0.0007	0.00037	0.00038	0.00031	0.00419		
3/29/2022	0.00223						0.0014	0.00619
10/4/2022		0.00073	0.000471	0.000286	0.000312	0.00315		
10/18/2022	0.00233						0.00301	0.00537
5/17/2023							0.00301	
5/22/2023				0.000552	0.000174 (J)			
5/23/2023		0.000587	0.000335					
5/30/2023	0.00194						0.00279	0.00504
10/18/2023						0.00355		
10/23/2023				0.000186 (J)	0.000112 (J)			
10/24/2023		0.000581	0.000375					
10/25/2023	0.00284						0.00215	0.00679

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	0.00869 (J)	
4/13/2016	0.00936 (J)	
6/1/2016	0.00976 (J)	
8/17/2016	0.012	
10/12/2016	0.0127	
1/25/2017	0.0109	
5/10/2017	0.0129	
6/28/2017	0.0125	
2/27/2018	0.013	
6/5/2018	0.0113	
11/7/2018	0.0145	
3/26/2019	0.0167	
9/10/2019	0.0177	0.146
4/20/2020		0.157
4/21/2020	0.0166	
8/17/2020		0.148
8/18/2020	0.0164	
3/9/2021	0.0247	
3/10/2021		0.167
8/17/2021		0.211
8/24/2021	0.0323	
3/29/2022	0.0267	
4/5/2022		0.39
10/5/2022		0.528
10/18/2022	0.0297	
5/17/2023		0.755
5/30/2023	0.0258	
10/24/2023		0.536
10/25/2023	0.0238	

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<3		<3	<3	<3		
2/17/2016	<3		<3				<3	<3
4/12/2016					<3	<3	<3	
4/13/2016	1.0468 (U)	<3	<3	<3				<3
5/31/2016		0.899	0.145 (U)	0.21 (U)	0.313 (U)	0.624	0.41 (U)	
6/1/2016	1.43							0.515
8/15/2016	1.42							0.843
8/16/2016		0.82	0.521 (U)	0.697	0.435 (U)		0.399 (U)	
8/17/2016						0.49 (U)		
10/11/2016	1.6						0.00389 (U)	
10/12/2016		0.92	0.669 (U)	0.421 (U)	-0.0137 (U)	-0.0237 (U)		0.397 (U)
1/24/2017	1.3						0.35 (U)	0.269 (U)
1/25/2017		1.2	0.789	0.265 (U)	0.309 (U)	0.455 (U)		
5/9/2017	0.844		0.647	-0.132 (U)	0.42	0.451		
5/10/2017		0.665					0.0662 (U)	0.454
6/27/2017	1.32						0.793	1.25
6/28/2017		0.29 (U)	0.415	0.493	0.373	0.63		
2/27/2018			0.864	1.89	1.25	1.59		
2/28/2018	0.815	0.558					3.99	1.17
6/4/2018	1.01							
6/5/2018		0.698	0.244 (U)				-0.365 (U)	0.337 (U)
6/6/2018				0.114 (U)	0.258 (U)	0.943		
11/5/2018			0.682	0.048 (U)	0.441 (U)			
11/6/2018	0.938						0.391 (U)	0.661
11/7/2018		0.568				0.888		
3/26/2019				0.381	0.471		0.535	1.18
3/27/2019	1.17	0.988	0.564			1.1		
9/10/2019	1.39	1.1	0.57	0.434 (U)		0.852	0.3 (U)	0.516 (U)
9/11/2019					0.557 (U)			
4/20/2020					0.256 (U)		0.693	0.493 (U)
4/21/2020	0.712			-0.0655 (U)		0.653		
4/22/2020		1.11	0.502 (U)					
8/11/2020						1.64		1.48
8/12/2020							0.983	
8/17/2020	1.46							
8/18/2020		1.08	0.457 (U)	0.135 (U)	0.568 (U)			
3/9/2021						1.28 (U)		1.2 (U)
3/10/2021			0.666 (U)	0.481 (U)			0.335 (U)	
3/15/2021		1.12 (U)			0.537 (U)			
3/16/2021	1.45							
8/17/2021	1.36							0.49 (U)
8/24/2021		1.45						
8/25/2021			0.729 (U)	0.113 (U)	0.3 (U)	1.01	0.314 (U)	
3/29/2022				1.37			0.273 (U)	
3/30/2022			0.597 (U)					
4/4/2022	0.899	2.08				1.03		
4/6/2022					0.338 (U)			1 (U)
10/5/2022	1.12							
10/17/2022			0.175 (U)	0.99 (U)	0.529 (U)			
10/18/2022		1.04				1.25	0.69 (U)	0.772 (U)
5/16/2023	0.881 (U)							
5/17/2023			0.741 (U)					



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							0.723 (U)	
5/24/2023		1.6				1.67		
5/30/2023				1.14				
5/31/2023					0.512 (U)			2
10/24/2023	1.74						0.295 (U)	
10/25/2023			1.2	0.431 (U)	0.343 (U)			0.983 (U)
11/1/2023		1.79				0.943 (U)		

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L)    Analysis Run 1/1/2024 4:45 PM    View: Time Series & Box Plot  
 Plant Greene County    Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<3				
2/17/2016	<3	<3	<3		<3	<3	<3	
4/12/2016		<3			<3	<3	<3	
4/13/2016	<3		<3	<3				
6/1/2016	0.972	1.55	0.758	0.126 (U)	0.044 (U)	0.407	0.1 (U)	
8/15/2016	1.43	1.85	0.638					
8/16/2016				0.477	0.213 (U)	0.547 (U)		
8/17/2016							0.372 (U)	0.66
9/20/2016								0.582
10/11/2016			0.701		0.184 (U)	0.845	0.277 (U)	
10/12/2016	0.246 (U)	0.481		0.137 (U)				-0.183 (U)
11/15/2016								0.262 (U)
1/4/2017								0.255 (U)
1/23/2017								0.871
1/24/2017	0.918	0.889	0.515 (U)		0.251 (U)	0.403 (U)	0.585	
1/25/2017				0.55				
5/9/2017			0.393 (U)	0.182 (U)	0.631		0.489	0.575
5/10/2017	1.27	1.01				0.645		
6/27/2017	1.51	1.17			0.145 (U)			0.459
6/28/2017			0.374	0.228 (U)		0.93	0.333	
2/27/2018		0.702	0.334 (U)	0.293 (U)	0.402 (U)	1.88	1.08	1.3
2/28/2018	1.05							
6/4/2018			0.64					
6/5/2018	1.07	0.999			0.313 (U)	1.13		0.269 (U)
6/6/2018				-0.056 (U)			0.016 (U)	
11/5/2018				0.637				
11/6/2018	1.05	0.913	0.803				0.0751 (U)	0.328 (U)
11/7/2018					0.496 (U)	1.72		
3/26/2019	1.57	1.35		0.405	0.315 (U)	1.21		0.571
3/27/2019			0.77				0.309 (U)	
9/9/2019	1.29	1.08	0.3 (U)					
9/10/2019				0.0889 (U)	0.219 (U)	1.21	0.578	
9/11/2019								0.561
4/21/2020	0.859	0.888	0.663 (U)	0.271 (U)	0.166 (U)			0.215 (U)
4/22/2020						0.791	0.218 (U)	
8/11/2020	2.14						0.511 (U)	
8/12/2020		1.17			0.986	0.919		
8/17/2020			0.817					
8/18/2020				-0.0105 (U)				2.3
3/9/2021	2.27	1.11 (U)						
3/10/2021				0.418 (U)	1.01 (U)	2.15	1.03 (U)	
3/15/2021								0.347 (U)
3/16/2021			1.05 (U)					
8/17/2021	1.97	2.04	2.01					
8/18/2021								0.327 (U)
8/24/2021					0.735 (U)	1.23	0.693 (U)	
8/25/2021				0.305 (U)				
3/28/2022			0.745 (U)		0.99 (U)			
3/29/2022							0.37 (U)	
3/30/2022				1.04				
4/4/2022	2.17					1.43		0.55 (U)
4/6/2022		1.18 (U)						



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<3				
4/12/2016				<3				
6/1/2016				1.06				
8/15/2016				0.972				
8/16/2016			0.522		0.434 (U)	1.34	0.951	0.534 (U)
8/17/2016	0.386 (U)	1.47						
9/19/2016						0.561 (U)	0.242 (U)	0.238 (U)
9/20/2016	0.794	1.24	0.746		0.51			
10/11/2016			0.819	0.802	0.166 (U)	0.118 (U)	0.34 (U)	0.158 (U)
10/12/2016	0.81	0.899						
11/14/2016						0.984	0.447 (U)	0.641
11/15/2016	0.366 (U)	0.933	0.516		0.589			
1/3/2017						0.473 (U)	0.729	0.834
1/4/2017	0.356 (U)	1.54	0.648 (U)		0.659			
1/23/2017	0.429 (U)				0.227 (U)			
1/24/2017		0.868		1.1		-0.422 (U)	0.184 (U)	
1/25/2017								0.605
1/26/2017			0.852					
5/9/2017	0.62	1.22	0.148 (U)	0.74	0.436 (U)			
5/10/2017						0.706		0.563
5/31/2017							0.454	
6/27/2017	0.319 (U)	0.925	0.393		0.197 (U)	0.412	-0.111 (U)	0.937
6/28/2017				0.867				
2/27/2018	0.271 (U)	0.0271 (U)	0.695	0.905	0.896	0.314 (U)	0.146 (U)	0.475
6/4/2018				0.954				
6/5/2018	0.391	0.792	0.145 (U)		0.342 (U)	0.218 (U)	-0.128 (U)	1.65
11/5/2018							0.0946 (U)	
11/6/2018	0.646	0.926	0.513 (U)	1.27	0.928	0.566 (U)		1.55
3/26/2019	0.498	1.08	0.598		1.3			
3/27/2019				1.47		0.29 (U)	0.5	1.83
9/9/2019				1.12				
9/11/2019	0.368 (U)	0.995	0.237 (U)		0.995	0.28 (U)	-0.464 (U)	1.02
4/20/2020				0.899				
4/21/2020	0.55	0.307 (U)	0.201 (U)		0.00976 (U)			
4/22/2020						0.0983 (U)	0.474 (U)	1.08
8/11/2020						0.767		
8/12/2020							3.18	3.41
8/17/2020				0.738				
8/18/2020	0.504 (U)	0.797	3.88		3.33			
3/15/2021	0.578 (U)	1.5	0.618 (U)		0.601 (U)	0.817 (U)	1.11 (U)	0.771 (U)
3/16/2021				0.553 (U)				
8/17/2021				1.09				
8/18/2021	0.941 (U)	0.779 (U)	0.937 (U)		1.22 (U)			
8/23/2021						0.345 (U)	1.09	1.01 (U)
3/28/2022	0.733 (U)	0.554 (U)	0.529 (U)		0.714 (U)	0.413 (U)	0.682 (U)	1.36
4/5/2022				0.532 (U)				
10/5/2022				0.688 (U)		0.837 (U)	0.467 (U)	1.02
10/19/2022	0.654 (U)	1.51	0.629 (U)		0.481 (U)			
5/17/2023				1.1 (U)				
5/22/2023							0.602 (U)	2.36
5/23/2023						0.475 (U)		
5/30/2023	1.45	1.08 (U)	1.01 (U)		1.19			

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
10/24/2023	0.274 (U)	0.91 (U)	0.855 (U)	0.618 (U)	0.247 (U)			
10/30/2023						0.654 (U)	0.553 (U)	1.24

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot

Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.359 (U)			
1/15/2019				0.354 (U)		0.901	0.387 (U)	0.839
1/16/2019		0.0207 (U)						
1/17/2019	0.628							
1/30/2019			0.479 (U)					
9/10/2019	0.656						0.519 (U)	
9/11/2019		0.734	0.412 (U)		1.22	1.16		0.13 (U)
4/20/2020							0.66	
4/21/2020		0.423 (U)						
4/22/2020	0.473 (U)		-0.103 (U)	0.273 (U)	0.413 (U)	1.48		
4/29/2020								0.684
8/11/2020			0.223 (U)			2.02		
8/12/2020	2.1						0.928	
8/18/2020		0.636 (U)						0.742
8/19/2020				0.994	0.347 (U)			
3/9/2021			0.296 (U)			1.62		
3/10/2021					0.566 (U)		0.522 (U)	
3/15/2021	0.858 (U)							0.946 (U)
3/16/2021		0.536 (U)		0.954 (U)				
8/23/2021	0.336 (U)							
8/24/2021		0.492 (U)	0.253 (U)	0.282 (U)	0.417 (U)	0.823 (U)		
8/25/2021							1.09 (U)	0.938 (U)
3/28/2022	0.466 (U)			0.405 (U)				
3/29/2022				0.405 (U)				
3/30/2022			0.174 (U)		0.248 (U)		0.745 (U)	
4/6/2022		0.108 (U)				1.24		1.12
10/5/2022							0.814 (U)	
10/17/2022		0.533 (U)	0.65 (U)	0.881 (U)				
10/18/2022					0.54 (U)	1.18		1.65
10/19/2022	0.0804 (U)							
5/22/2023			0.668 (U)					
5/23/2023		0.593 (U)		0.804 (U)	0.38 (U)			
5/24/2023						1.52		
5/31/2023	1.33						2.06	1.3
10/23/2023					0.805 (U)			
10/24/2023		0.702 (U)					0.352 (U)	
10/25/2023			0.757 (U)	0.565 (U)				
10/31/2023						1.91		1.27 (U)
11/1/2023	0.148 (U)							

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	0.739							
1/16/2019		0.426 (U)	0.422 (U)					
9/11/2019	0.195 (U)	0.558 (U)	0.637 (U)					
4/20/2020			0.386 (U)	0.529				
4/21/2020	0.678	1.89					0.251 (U)	0.594
5/28/2020						-0.0036 (U)		
7/6/2020					0.292 (U)			
8/11/2020					0.477 (U)	0.208 (U)		
8/12/2020			4.07					
8/17/2020				1.16			1.11	
8/19/2020	0.687	1.99						0.0107 (U)
3/8/2021					0.291 (U)	0.568 (U)		
3/9/2021	0.618 (U)	1.54						
3/10/2021			0.923 (U)	0.21 (U)			0.57 (U)	0.261 (U)
8/17/2021					0.651 (U)	0.339 (U)		
8/18/2021	1.9	1.64		1.1			0.595 (U)	1.11 (U)
8/23/2021			1.13					
3/23/2022					0.547 (U)	0.214 (U)		
3/29/2022				0.661 (U)				
3/30/2022							0.315 (U)	0.254 (U)
4/4/2022			0.795 (U)					
4/6/2022	1.01	1.84						
10/4/2022					0.744 (U)	0.714 (U)		
10/5/2022			1.17					
10/18/2022				0.914 (U)			0.152 (U)	
10/19/2022	1.77	1.67						0.484 (U)
5/16/2023			0.741 (U)					
5/17/2023					0.641 (U)			
5/22/2023				1.24 (U)		0.154 (U)		
5/24/2023		1.79						
5/30/2023	1.45						0.667 (U)	0.788 (U)
10/18/2023					0.867 (U)			
10/24/2023						0.398 (U)		
10/25/2023	1.74	1.93					0.356 (U)	0.701 (U)
10/31/2023			1.24	0.66 (U)				

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<3							
4/12/2016	<3							
5/31/2016	2.11							
8/17/2016	2.28							
10/11/2016	1.83							
1/24/2017	1.92							
5/9/2017	3.05							
6/28/2017	2.24							
2/27/2018	1.01							
6/5/2018	1.39							
11/6/2018	1.72							
3/27/2019	1.56							
9/11/2019	1.46							
4/20/2020				1.13	1		1.5	
4/21/2020	0.882							
5/28/2020		0.612				0.0544 (U)		2.27
7/6/2020			0.432 (U)					
8/11/2020		0.883	0.777	1.56		0.462 (U)		0.997
8/12/2020	2.08				2.14		0.991	
3/8/2021		1 (U)	2.06					
3/9/2021						1.02 (U)		1.6
3/10/2021				1.29 (U)	1.41		1.25 (U)	
3/16/2021	1.71							
8/16/2021			1.3					
8/17/2021		0.939 (U)				0.442 (U)		1.19 (U)
8/23/2021	2.11			2.06	0.978 (U)		1.52	
3/23/2022		0.908 (U)	0.999			0.748 (U)		1.02 (U)
4/4/2022	1.13							
4/5/2022					0.963 (U)		0.689 (U)	
4/6/2022				1.59				
10/3/2022			2.13					
10/4/2022		0.402 (U)				0.823 (U)		1.23
10/5/2022					1.56		1.18	
10/17/2022	1.93			1.34				
5/15/2023			1.07 (U)					
5/17/2023	1.25 (U)							
5/23/2023		0.673 (U)			1.95	0.553 (U)	1.61	0.928 (U)
5/30/2023				1.16				
10/18/2023			0.848 (U)					
10/24/2023	1.03 (U)	0.868 (U)				0.641 (U)		0.758 (U)
10/31/2023				1.44	1.63		1.12 (U)	



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot

Plant Greene County Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<3
2/17/2016	<3						<3	
4/12/2016	<3							
4/13/2016							<3	<3
5/31/2016	0.453 (U)						0.658	
6/1/2016								0.884
8/17/2016	0.381 (U)						0.936	1.06
10/11/2016	0.139 (U)							
10/12/2016							0.668	0.269 (U)
1/24/2017	0.496							
1/25/2017							0.718	1.12
5/10/2017	0.278 (U)						0.56	0.887
6/28/2017	0.724						0.526	0.908
2/27/2018	0.214 (U)						0.803	
2/28/2018								0.131 (U)
6/5/2018	0.176 (U)						0.577	0.564
11/7/2018	1.39						1.51	0.34 (U)
3/26/2019	0.904						0.841	0.507
9/10/2019	1.14						0.569 (U)	0.898
4/21/2020	0.679 (U)						0.549 (U)	1.09
8/19/2020	0.96						1.04	0.6 (U)
3/9/2021	1.12 (U)						0.545 (U)	1.6
8/17/2021		0.612 (U)	0.404 (U)	0.437 (U)	0.219 (U)	0.56 (U)		
8/24/2021	0.645 (U)						0.865 (U)	1.67
3/23/2022		0.932 (U)	0.201 (U)	0.829 (U)	0.207 (U)	1.03		
3/29/2022	0.394 (U)						0.575 (U)	0.621 (U)
10/4/2022		0.583 (U)	0.572 (U)	1.03	0.862 (U)	0.702 (U)		
10/18/2022	1.02						1.19	0.741 (U)
5/17/2023						0.541 (U)		
5/22/2023				1.06 (U)	0.568 (U)			
5/23/2023		0.565 (U)	1.01 (U)					
5/30/2023	0.77 (U)						0.777 (U)	1.17
10/18/2023						1.18 (U)		
10/23/2023				0.834 (U)	0.693 (U)			
10/24/2023		0.548 (U)	0.392 (U)					
10/25/2023	0.117 (U)						0.513 (U)	1.02 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<3	
4/13/2016	<3	
6/1/2016	0.532	
8/17/2016	1.07	
10/12/2016	1.07	
1/25/2017	1.46	
5/10/2017	1.21	
6/28/2017	0.821	
2/28/2018	0.232 (U)	
6/5/2018	0.722	
11/7/2018	0.82	
3/26/2019	1.49	
3/27/2019		1.69
9/10/2019	1.75	1.89
4/20/2020		1.59
4/21/2020	1.31	
8/17/2020		1.16
8/18/2020	1.59	
3/9/2021	1.16 (U)	
3/10/2021		1.36 (U)
8/17/2021		1.76
8/24/2021	1.43	
3/29/2022	1.25	
4/5/2022		1.73
10/5/2022		1.73
10/18/2022	1.29	
5/17/2023		2.36
5/30/2023	2.26	
10/24/2023		1.82
10/25/2023	1.6	

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.23 (J)		0.16 (J)	0.14 (J)	0.13 (J)		
2/17/2016	0.05 (J)		0.11 (J)				0.09 (J)	0.2 (J)
4/12/2016					0.119 (J)	0.137 (J)	0.107 (J)	
4/13/2016	0.061 (J)	0.236 (J)	0.119 (J)	0.163 (J)				0.173 (J)
5/31/2016		0.255 (J)	0.134 (J)	0.19 (J)	0.132 (J)	0.149 (J)	0.145 (J)	
6/1/2016	0.079 (J)							0.253 (J)
8/15/2016	0.081 (J)							0.224 (J)
8/16/2016		0.238 (J)	0.116 (J)	0.219 (J)	0.177 (J)		0.135 (J)	
8/17/2016						0.147 (J)		
10/11/2016	0.049 (J)						0.096 (J)	
10/12/2016		0.198 (J)	0.076 (J)	0.163 (J)	0.149 (J)	0.115 (J)		0.187 (J)
3/14/2017	0.04 (J)		0.09 (J)			0.11	0.09 (J)	0.23
3/15/2017		0.22		0.13	0.16			
5/9/2017	0.05 (J)		0.11	0.15	0.18	0.14		
5/10/2017		0.25					0.11	0.23
6/27/2017	0.04 (J)						0.1	0.22
6/28/2017		0.09 (J)	0.17	0.17	0.18	0.13		
8/29/2017		0.26	0.14	0.22	0.19	0.14		
8/30/2017	0.04 (J)						0.13	0.28
2/27/2018	0.07 (J)	0.26	0.14			0.13		
2/28/2018				0.19	0.14		0.09 (J)	0.23
6/4/2018	0.07 (J)							
6/5/2018		0.24	0.16				0.13	0.28
6/6/2018				0.19	0.13	0.15		
11/5/2018			0.15	0.2	0.15			
11/6/2018	0.04 (J)						0.12	0.24
11/7/2018		0.25				0.19		
3/26/2019				0.196	0.0775 (J)		0.113	0.316
3/27/2019	0.192	0.206	0.104			0.248		
9/10/2019	0.179	0.226	0.191	0.26		0.209	0.122	0.267
9/11/2019					0.118			
4/20/2020					0.0844 (J)		0.14	0.245
4/21/2020	0.12			0.198		0.254		
4/22/2020		0.224	0.167					
8/11/2020						0.278		0.294
8/12/2020							0.147	
8/17/2020	0.115							
8/18/2020		0.203	0.165	0.223	0.108			
3/9/2021						0.263		0.286
3/10/2021			0.0749 (J)	0.161			0.115	
3/15/2021		0.324			0.0737 (J)			
3/16/2021	0.129							
8/17/2021	0.158							0.286
8/24/2021		0.277						
8/25/2021			0.135	0.188	0.111	0.239	0.167	
3/29/2022				0.107 (J)			0.117 (J)	
3/30/2022			<0.04					
4/4/2022	0.124 (JD)	0.2785 (D)				0.226 (D)		
4/6/2022					<0.04			0.2395 (D)
10/5/2022	0.125							
10/17/2022			0.118 (J)	0.197	<0.04			
10/18/2022		0.248				0.211	0.139	0.27

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/16/2023	0.144							
5/17/2023			0.157					
5/23/2023							0.144	
5/24/2023		0.303				0.258		
5/30/2023				0.18				
5/31/2023					0.102 (J)			0.284
10/24/2023	0.0372 (J)						0.144	
10/25/2023			0.141	0.165	0.149			0.276
11/1/2023		0.222				0.256		

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				0.18 (J)				
2/17/2016	0.53	0.15 (J)	0.09 (J)		0.08 (J)	0.02 (J)	0.02 (J)	
4/12/2016		0.168 (J)			0.077 (J)	0.026 (J)	0.021 (J)	
4/13/2016	0.437		0.092 (J)	0.191 (J)				
6/1/2016	0.376	0.178 (J)	0.108 (J)	0.201 (J)	0.101 (J)	0.057 (J)	0.051 (J)	
8/15/2016	0.362	0.149 (J)	0.105 (J)					
8/16/2016				0.218 (J)	0.093 (J)	0.046 (J)		
8/17/2016							0.037 (J)	0.159 (J)
9/20/2016								0.126 (J)
10/11/2016			0.062 (J)		0.059 (J)	<0.04	<0.04	
10/12/2016	0.377	0.12 (J)		0.171 (J)				0.1 (J)
11/15/2016								0.016 (J)
1/4/2017								<0.04
3/13/2017								0.31 (o)
3/14/2017	0.41	0.17	<0.04		0.07 (J)	<0.04	<0.04	
3/15/2017				0.16				
5/9/2017			0.07 (J)	0.17	0.08 (J)		<0.04	0.25 (o)
5/10/2017	0.36	0.17				<0.04		
6/27/2017	0.38	0.18			0.08 (J)			0.22 (o)
6/28/2017			0.09 (J)	0.18		<0.04	0.04 (J)	
8/29/2017				0.23	0.1	0.04 (J)	<0.04	0.22 (o)
8/30/2017	0.38	0.21	0.07 (J)					
2/27/2018			0.08 (J)		0.08 (J)	<0.04		0.08 (J)
2/28/2018	0.58	0.17		0.2			<0.04	
6/4/2018			0.09 (J)					
6/5/2018	0.41	0.17			0.09 (J)	0.04 (J)		0.07 (J)
6/6/2018				0.19			<0.04	
11/5/2018				0.22				
11/6/2018	0.45	0.17	0.07 (J)				<0.04	0.07 (J)
11/7/2018					0.08 (J)	<0.04		
3/26/2019	0.573	0.192		0.219	0.123	<0.04		<0.04
3/27/2019			0.089 (J)				<0.04	
9/9/2019	0.477	0.157	0.163					
9/10/2019				0.194	0.0914 (J)	0.0545 (J)	<0.04	
9/11/2019								0.0716 (J)
4/21/2020	0.565	0.171	0.126	0.173	0.095 (J)			<0.04
4/22/2020						<0.04	<0.04	
8/11/2020	0.515						<0.04	
8/12/2020		0.198			0.0867 (J)	<0.04		
8/17/2020			0.0753 (J)					
8/18/2020				0.18				<0.04
3/9/2021	0.628	0.205						
3/10/2021				0.113	0.085 (J)	<0.04	0.104	
3/15/2021								<0.04
3/16/2021			0.185					
8/17/2021	0.494	0.212	0.0974 (J)					
8/18/2021								<0.04
8/24/2021					0.0713 (J)	<0.04	0.0914 (J)	
8/25/2021				0.117				
3/28/2022			0.105 (J)		<0.04			
3/29/2022							0.0724 (J)	
3/30/2022				<0.04				

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

Date	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
4/4/2022	0.5855 (D)					<0.04		<0.04
4/6/2022		0.1385 (JD)						
10/5/2022			0.124 (J)					
10/17/2022		0.176		0.0988 (J)	<0.04	<0.04		
10/18/2022	0.544						0.0955 (J)	
10/19/2022								<0.04
5/16/2023					0.0935 (J)	<0.04		
5/17/2023	0.535		0.0918 (J)					
5/22/2023		0.186						
5/30/2023				0.135			0.0807 (J)	0.0642 (J)
10/23/2023	0.515	0.164						
10/24/2023			0.06					0.0327 (J)
10/25/2023				0.0861	0.0761	0.108		
11/1/2023							0.0861	

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				0.08 (J)				
4/12/2016				0.083 (J)				
6/1/2016				0.118 (J)				
8/15/2016				0.109 (J)				
8/16/2016			0.05 (J)		0.036 (J)	0.087 (J)	0.054 (J)	0.061 (J)
8/17/2016	0.039 (J)	0.055 (J)						
9/19/2016						0.045 (J)	0.023 (J)	0.018 (J)
9/20/2016	0.01 (o)	0.021 (o)	0.015 (J)		<0.04			
10/11/2016			<0.04	0.066 (J)	<0.04	0.034 (J)	0.011 (J)	<0.04
10/12/2016	<0.04	<0.04						
11/14/2016						<0.04	<0.04	<0.04
11/15/2016	<0.04	<0.04	<0.04		<0.04			
1/3/2017						<0.04	<0.04	<0.04
1/4/2017	<0.04	<0.04	<0.04		<0.04			
3/13/2017			<0.04					
3/14/2017	<0.04	<0.04		0.07 (J)	<0.04	<0.04	<0.04	<0.04
5/9/2017	<0.04	<0.04	<0.04	0.09 (J)	<0.04			
5/10/2017						0.05 (J)	0.05 (J)	0.06 (J)
6/27/2017	<0.04	<0.04	<0.04		<0.04	0.05 (J)	0.04 (J)	0.07 (J)
6/28/2017				0.1				
8/29/2017	<0.04							
8/30/2017		<0.04	<0.04	0.12	<0.04	<0.04	0.04 (J)	0.08 (J)
2/27/2018	<0.04	<0.04	<0.04	0.09 (J)	<0.04	<0.04	0.04 (J)	0.07 (J)
6/4/2018				0.1				
6/5/2018	<0.04	<0.04	<0.04		<0.04	<0.04	0.04 (J)	0.1
11/5/2018							<0.04	
11/6/2018	<0.04	<0.04	<0.04	0.1	<0.04	<0.04		0.08 (J)
3/26/2019	<0.04	<0.04	<0.04		<0.04			
3/27/2019				0.13		<0.04	<0.04	<0.04
9/9/2019				0.121				
9/11/2019	<0.04	0.0649 (J)	<0.04		<0.04	<0.04	0.0518 (J)	<0.04
4/20/2020				0.112				
4/21/2020	<0.04	<0.04	<0.04		<0.04			
4/22/2020						<0.04	<0.04	<0.04
8/11/2020						<0.04		
8/12/2020							<0.04	<0.04
8/17/2020				0.148				
8/18/2020	<0.04	<0.04	<0.04		<0.04			
3/15/2021	<0.04	<0.04	<0.04		<0.04	<0.04	<0.04	<0.04
3/16/2021				0.23				
8/17/2021				0.184				
8/18/2021	<0.04	<0.04	<0.04		<0.04			
8/23/2021						<0.04	<0.04	<0.04
3/28/2022	<0.04	<0.04	<0.04		<0.04	<0.04	<0.04	<0.04
4/5/2022				0.146 (JD)				
10/5/2022				0.12 (J)		0.0671 (J)	<0.04	<0.04
10/19/2022	<0.04	0.0698 (J)	<0.04		<0.04			
5/17/2023				0.147				
5/22/2023						<0.04	<0.04	<0.04
5/23/2023						<0.04		
5/30/2023	0.0734 (J)	<0.04	<0.04		<0.04			
10/24/2023	<0.04	0.0218 (J)	<0.04	0.166	<0.04			

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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10/30/2023	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
					0.0258 (J)		0.0401	0.064



# Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.0841 (J)			
1/15/2019				0.0512 (J)		0.465	0.0981 (J)	0.0859 (J)
1/16/2019		<0.04						
1/17/2019	<0.04							
1/30/2019			0.264					
9/10/2019	<0.04						0.18	
9/11/2019		0.082 (J)	0.289		0.142	0.443		0.0609 (J)
4/20/2020							0.0952 (J)	
4/21/2020		0.16						
4/22/2020	<0.04		0.279	0.197	0.135	0.446		
4/29/2020								0.0857 (J)
8/11/2020			0.325			0.494		
8/12/2020	<0.04						0.145	
8/18/2020		0.0766 (J)						0.092 (J)
8/19/2020				0.141	0.149			
3/9/2021			0.365			0.458		
3/10/2021					0.131		0.112	
3/15/2021	<0.04							0.0721 (J)
3/16/2021		0.0841 (J)		0.263				
8/23/2021	<0.04							
8/24/2021		0.0681 (J)	0.318	0.194	0.197	0.508		
8/25/2021							0.142	0.074 (J)
3/28/2022	<0.04							
3/29/2022				0.189				
3/30/2022			0.301		0.0661 (J)		<0.04	
4/6/2022		<0.04				0.3765 (D)		<0.04
10/5/2022							0.133	
10/17/2022		<0.04	0.347	0.138				
10/18/2022					0.151	0.423		<0.04
10/19/2022	<0.04							
5/22/2023			0.356					
5/23/2023		0.116 (J)		0.141	0.144			
5/24/2023						0.442		
5/31/2023	<0.04						0.105 (J)	0.0663 (J)
10/23/2023					0.149			
10/24/2023		0.0582					0.0974	
10/25/2023			0.321	0.134				
10/31/2023						0.436		0.0601
11/1/2023	0.06							

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.04							
1/16/2019		0.0888 (J)	0.0727 (J)					
9/11/2019	0.063 (J)	0.127	0.0783 (J)					
4/20/2020			0.0638 (J)	0.176				
4/21/2020	0.0701 (J)	0.147					<0.04	0.075 (J)
5/28/2020						0.0647 (J)		
7/6/2020					0.185			
8/11/2020					0.169	<0.04		
8/12/2020			0.0867 (J)					
8/17/2020				0.195			<0.04	
8/19/2020	0.077 (J)	0.154						0.0823 (J)
3/8/2021					0.187	<0.04		
3/9/2021	0.0697 (J)	0.135						
3/10/2021			0.0611 (J)	0.176			<0.04	<0.04
8/17/2021					0.177	<0.04		
8/18/2021	0.111	0.166		0.172			<0.04	0.0638 (J)
8/23/2021			0.11					
3/23/2022					0.158	<0.04		
3/29/2022				0.162				
3/30/2022							<0.04	0.0724 (J)
4/4/2022			<0.04					
4/6/2022	0.0957 (JD)	0.11535 (JD)						
10/4/2022					0.151	0.0647 (J)		
10/5/2022			0.104 (J)					
10/18/2022				0.147			<0.04	
10/19/2022	<0.04	0.134						0.0628 (J)
5/16/2023			0.114 (J)					
5/17/2023					0.181			
5/22/2023				0.154		<0.04		
5/24/2023		0.126						
5/30/2023	0.089 (J)						0.087 (J)	0.0965 (J)
10/18/2023					0.143			
10/24/2023						0.0226 (J)		
10/25/2023	0.0583	0.112					<0.04	0.073
10/31/2023			0.0705	0.157				

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.22 (J)							
4/12/2016	0.214 (J)							
5/31/2016	0.232 (J)							
8/17/2016	0.225 (J)							
10/11/2016	0.19 (J)							
3/14/2017	0.22							
5/9/2017	0.21							
6/28/2017	0.21							
8/30/2017	0.25							
2/27/2018	0.23							
6/5/2018	0.24							
11/6/2018	0.22							
3/27/2019	0.208							
9/11/2019	0.2							
4/20/2020				0.154	0.25		0.189	
4/21/2020	0.224							
5/28/2020		0.138				<0.04		0.0914 (J)
7/6/2020			0.0721 (J)					
8/11/2020		0.16	0.0762 (J)	0.133		<0.04		0.137
8/12/2020	0.221				0.275		0.165	
3/8/2021		0.127	0.0628 (J)					
3/9/2021						<0.04		0.0715 (J)
3/10/2021				0.135	0.25		0.112	
3/16/2021	0.282							
8/16/2021			0.0613 (J)					
8/17/2021		0.155				<0.04		0.096 (J)
8/23/2021	0.322			0.245	0.328		0.244	
3/23/2022		0.16	0.0894 (J)			<0.04		0.0775 (J)
4/4/2022	0.216							
4/5/2022					0.2325 (D)		<0.04 (D)	
4/6/2022				0.0946 (JD)				
10/3/2022			0.102 (J)					
10/4/2022		0.157				<0.04		0.0929 (J)
10/5/2022					0.261		0.165	
10/17/2022	0.192			0.136				
5/15/2023			0.104 (J)					
5/17/2023	0.24							
5/23/2023		0.135			0.258	<0.04	0.101 (J)	0.0764 (J)
5/30/2023				0.167				
10/18/2023			0.0487					
10/24/2023	0.208	0.11				0.024 (J)		0.0762
10/31/2023				0.14	0.239		0.174	

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								0.08 (J)
2/17/2016	0.17 (J)						0.07 (J)	
4/12/2016	0.203 (J)							
4/13/2016							0.081 (J)	0.088 (J)
5/31/2016	0.212 (J)						0.103 (J)	
6/1/2016								0.109 (J)
8/17/2016	0.19 (J)						0.078 (J)	0.089 (J)
10/11/2016	0.15 (J)							
10/12/2016							0.041 (J)	0.048 (J)
3/14/2017	0.18						0.07 (J)	
3/15/2017								0.08 (J)
5/10/2017	0.19						0.09 (J)	0.1
6/28/2017	0.18						0.08 (J)	0.09 (J)
8/29/2017	0.22						0.09 (J)	0.11
2/27/2018	0.22						0.08 (J)	0.11
6/5/2018	0.23						0.08 (J)	0.11
11/7/2018	0.22						0.08 (J)	0.11
3/26/2019	0.253						0.106	0.162
9/10/2019	0.227						0.086 (J)	0.113
4/21/2020	0.218						0.0951 (J)	0.114
8/19/2020	0.223						0.103	0.116
3/9/2021	0.17						0.0949 (J)	0.109
8/17/2021		<0.04	0.142	0.0716 (J)	<0.04	0.225		
8/24/2021	0.161						0.1	0.141
3/23/2022		<0.04	0.0871 (J)	<0.04	<0.04	0.251		
3/29/2022	0.193						0.104 (J)	0.108 (J)
10/4/2022		<0.04	0.0748 (J)	<0.04	<0.04	0.212		
10/18/2022	0.154						0.0649 (J)	0.0981 (J)
5/17/2023						0.253		
5/22/2023				0.0868 (J)	<0.04			
5/23/2023		<0.04	0.0836 (J)					
5/30/2023	0.193						0.111 (J)	0.179
10/18/2023						0.2		
10/23/2023				0.0287 (J)	<0.04			
10/24/2023		0.0269 (J)	0.0656					
10/25/2023	0.143						0.0713	0.105

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	0.16 (J)	
4/13/2016	0.15 (J)	
6/1/2016	0.19 (J)	
8/17/2016	0.171 (J)	
10/12/2016	0.137 (J)	
3/15/2017	0.15	
5/10/2017	0.17	
6/28/2017	0.16	
8/29/2017	0.19	
2/27/2018	0.19	
6/5/2018	0.19	
11/7/2018	0.2	
3/26/2019	0.223	
9/10/2019	0.178	0.0831 (J)
4/20/2020		0.132
4/21/2020	0.181	
8/17/2020		0.0959 (J)
8/18/2020	0.177	
3/9/2021	0.147	
3/10/2021		0.118
8/17/2021		0.117
8/24/2021	0.164	
3/29/2022	<0.04	
4/5/2022		0.12105 (JD)
10/5/2022		0.192
10/18/2022	0.156	
5/17/2023		0.0997 (J)
5/30/2023	0.127	
10/24/2023		0.0737
10/25/2023	0.104	

# Time Series

Constituent: Lead (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.000203		<0.000203	<0.000203	<0.000203		
2/17/2016	<0.000203		<0.000203				<0.000203	<0.000203
4/12/2016					<0.000203	<0.000203	<0.000203	
4/13/2016	<0.000203	<0.000203	<0.000203	<0.000203				<0.000203
5/31/2016		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
6/1/2016	<0.000203							<0.000203
8/15/2016	<0.000203							<0.000203
8/16/2016		<0.000203	<0.000203	<0.000203	<0.000203		<0.000203	
8/17/2016						<0.000203		
10/11/2016	<0.000203						<0.000203	
10/12/2016		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
1/24/2017	<0.000203						<0.000203	<0.000203
1/25/2017		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
5/9/2017	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203		
5/10/2017		<0.000203					<0.000203	<0.000203
6/27/2017	<0.000203						<0.000203	<0.000203
6/28/2017		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
2/27/2018	<0.000203	<0.000203	<0.000203			<0.000203		
2/28/2018				<0.000203	<0.000203		<0.000203	<0.000203
6/4/2018	<0.000203							
6/5/2018		<0.000203	<0.000203				<0.000203	<0.000203
6/6/2018				<0.000203	<0.000203	<0.000203		
11/5/2018			<0.000203	<0.000203	<0.000203			
11/6/2018	<0.000203						<0.000203	<0.000203
11/7/2018		<0.000203				<0.000203		
3/26/2019				<0.000203	<0.000203		<0.000203	<0.000203
3/27/2019	<0.000203	<0.000203	<0.000203			<0.000203		
9/10/2019	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203
9/11/2019					<0.000203			
4/20/2020					<0.000203		<0.000203	<0.000203
4/21/2020	<0.000203			<0.000203		<0.000203		
4/22/2020		<0.000203	<0.000203					
8/11/2020						<0.000203		<0.000203
8/12/2020							<0.000203	
8/17/2020	<0.000203							
8/18/2020		<0.000203	<0.000203	<0.000203	<0.000203			
3/9/2021						<0.000203		0.000109 (J)
3/10/2021			<0.000203	<0.000203			<0.000203	
3/15/2021		<0.000203			<0.000203			
3/16/2021	<0.000203							
8/17/2021	<0.000203							0.00011 (J)
8/24/2021		<0.000203						
8/25/2021			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
3/29/2022				<0.000203			<0.000203	
3/30/2022			<0.000203					
4/4/2022	<0.000203	<0.000203				<0.000203		
4/6/2022					<0.000203			9E-05 (J)
10/5/2022	<0.000203							
10/17/2022			<0.000203	<0.000203	<0.000203			
10/18/2022		<0.000203				<0.000203	<0.000203	8.9E-05 (J)
5/16/2023	<0.000203							
5/17/2023			<0.000203					

# Time Series

Constituent: Lead (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							<0.000203	
5/24/2023		<0.000203				<0.000203		
5/30/2023				<0.000203				
5/31/2023					<0.000203			0.000145 (J)
10/24/2023	<0.000203						<0.000203	
10/25/2023			<0.000203	<0.000203	<0.000203			7.1E-05 (J)
11/1/2023		<0.000203				<0.000203		

# Time Series

Constituent: Lead (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.000203				
2/17/2016	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	
4/12/2016		<0.000203			<0.000203	<0.000203	<0.000203	
4/13/2016	<0.000203		<0.000203	<0.000203				
6/1/2016	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
8/15/2016	<0.000203	<0.000203	0.00104 (J)					
8/16/2016				<0.000203	<0.000203	<0.000203		
8/17/2016							<0.000203	<0.000203
9/20/2016								<0.000203
10/11/2016			<0.000203		<0.000203	<0.000203	<0.000203	
10/12/2016	<0.000203	<0.000203		<0.000203				<0.000203
11/15/2016								<0.000203
1/4/2017								<0.000203
1/23/2017								<0.000203
1/24/2017	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	
1/25/2017				<0.000203				
5/9/2017			<0.000203	<0.000203	<0.000203		<0.000203	<0.000203
5/10/2017	<0.000203	<0.000203				<0.000203		
6/27/2017	<0.000203	<0.000203			<0.000203			<0.000203
6/28/2017			<0.000203	<0.000203		<0.000203	<0.000203	
2/27/2018			<0.000203		<0.000203	<0.000203		<0.000203
2/28/2018	<0.000203	<0.000203		<0.000203			<0.000203	
6/4/2018			<0.000203					
6/5/2018	<0.000203	<0.000203			<0.000203	<0.000203		<0.000203
6/6/2018				<0.000203			<0.000203	
11/5/2018				<0.000203				
11/6/2018	<0.000203	<0.000203	<0.000203				<0.000203	<0.000203
11/7/2018					<0.000203	<0.000203		
3/26/2019	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203		<0.000203
3/27/2019			<0.000203				<0.000203	
9/9/2019	<0.000203	<0.000203	<0.000203					
9/10/2019				<0.000203	<0.000203	<0.000203	<0.000203	
9/11/2019								<0.000203
4/21/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203			<0.000203
4/22/2020						<0.000203	<0.000203	
8/11/2020	<0.000203						<0.000203	
8/12/2020		<0.000203			<0.000203	<0.000203		
8/17/2020			<0.000203					
8/18/2020				<0.000203				<0.000203
3/9/2021	<0.000203	<0.000203						
3/10/2021				<0.000203	<0.000203	<0.000203	8.84E-05 (J)	
3/15/2021								6.99E-05 (J)
3/16/2021			0.000736					
8/17/2021	<0.000203	<0.000203	0.00059					
8/18/2021								7E-05 (J)
8/24/2021					<0.000203	<0.000203	<0.000203	
8/25/2021				<0.000203				
3/28/2022			0.00066		<0.000203			
3/29/2022							<0.000203	
3/30/2022				<0.000203				
4/4/2022	<0.000203					<0.000203		<0.000203
4/6/2022		<0.000203						



# Time Series

Constituent: Lead (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			0.000453					
10/17/2022		<0.000203		<0.000203	<0.000203	<0.000203		
10/18/2022	<0.000203						<0.000203	
10/19/2022								<0.000203
5/16/2023					<0.000203	<0.000203		
5/17/2023	<0.000203		0.000464					
5/22/2023		<0.000203						
5/30/2023				<0.000203			<0.000203	<0.000203
10/23/2023	<0.000203	<0.000203						
10/24/2023			0.000828					<0.000203
10/25/2023				<0.000203	<0.000203	<0.000203		
11/1/2023							<0.000203	

# Time Series

Constituent: Lead (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot

Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.000203			
4/12/2016				<0.000203			
6/1/2016				<0.000203			
8/15/2016				<0.000203			
8/16/2016			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
8/17/2016	<0.000203	<0.000203					
9/19/2016					<0.000203	<0.000203	<0.000203
9/20/2016	<0.000203	<0.000203	<0.000203	<0.000203			
10/11/2016			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
10/12/2016	<0.000203	<0.000203					
11/14/2016					<0.000203	<0.000203	<0.000203
11/15/2016	<0.000203	<0.000203	<0.000203	<0.000203			
1/3/2017					<0.000203	<0.000203	<0.000203
1/4/2017	<0.000203	<0.000203	<0.000203	<0.000203			
1/23/2017	<0.000203			<0.000203			
1/24/2017		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
1/25/2017							<0.000203
1/26/2017			<0.000203				
5/9/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
5/10/2017					<0.000203	<0.000203	<0.000203
6/27/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
6/28/2017				<0.000203			
2/27/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
6/4/2018				<0.000203			
6/5/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
11/5/2018						<0.000203	
11/6/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
3/26/2019	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
3/27/2019				<0.000203	<0.000203	<0.000203	<0.000203
9/9/2019				<0.000203			
9/11/2019	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
4/20/2020				<0.000203			
4/21/2020	<0.000203	<0.000203	<0.000203	<0.000203			
4/22/2020					<0.000203	<0.000203	<0.000203
8/11/2020					<0.000203		
8/12/2020						<0.000203	<0.000203
8/17/2020				<0.000203			
8/18/2020	<0.000203	<0.000203	<0.000203	<0.000203			
3/15/2021	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	0.000121 (J)	<0.000203
3/16/2021				<0.000203			
8/17/2021				<0.000203			
8/18/2021	<0.000203	<0.000203	<0.000203	<0.000203			
8/23/2021					<0.000203	0.00015 (J)	<0.000203
3/28/2022	<0.000203	<0.000203	<0.000203	<0.000203	0.00015 (J)	<0.000203	0.00015 (J)
4/5/2022				<0.000203			
10/5/2022				<0.000203	<0.000203	<0.000203	0.000115 (J)
10/19/2022	<0.000203	<0.000203	<0.000203	<0.000203			
5/17/2023				<0.000203			
5/22/2023						<0.000203	0.000193 (J)
5/23/2023					<0.000203		
5/30/2023	<0.000203	<0.000203	<0.000203	<0.000203			
10/24/2023	<0.000203	<0.000203	<0.000203	9.7E-05 (J)	<0.000203		

# Time Series

Constituent: Lead (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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10/30/2023	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
					<0.000203	<0.000203		0.000181 (J)

# Time Series

Constituent: Lead (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.000203			
1/15/2019				<0.000203		<0.000203	<0.000203	<0.000203
1/16/2019		<0.000203						
1/17/2019	<0.000203							
1/30/2019			<0.000203					
9/10/2019	<0.000203						<0.000203	
9/11/2019		<0.000203	<0.000203		<0.000203	<0.000203		<0.000203
4/20/2020							<0.000203	
4/21/2020		<0.000203						
4/22/2020	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203		
4/29/2020								<0.000203
8/11/2020			<0.000203			<0.000203		
8/12/2020	<0.000203						<0.000203	
8/18/2020		<0.000203						<0.000203
8/19/2020				<0.000203	<0.000203			
3/9/2021			0.000447			<0.000203		
3/10/2021					<0.000203		<0.000203	
3/15/2021	<0.000203							<0.000203
3/16/2021		<0.000203		<0.000203				
8/23/2021	<0.000203							
8/24/2021		<0.000203	0.00031	<0.000203	<0.000203	<0.000203		
8/25/2021							<0.000203	<0.000203
3/28/2022	<0.000203							
3/29/2022				<0.000203				
3/30/2022			0.00037		<0.000203		<0.000203	
4/6/2022		<0.000203				<0.000203		8E-05 (J)
10/5/2022							<0.000203	
10/17/2022		<0.000203	0.000349	<0.000203				
10/18/2022					<0.000203	<0.000203		<0.000203
10/19/2022	<0.000203							
5/22/2023			0.000346					
5/23/2023		<0.000203		<0.000203	<0.000203			
5/24/2023						<0.000203		
5/31/2023	<0.000203						<0.000203	<0.000203
10/23/2023					0.000408			
10/24/2023		<0.000203					<0.000203	
10/25/2023			0.000493	<0.000203				
10/31/2023						<0.000203		<0.000203
11/1/2023	<0.000203							

# Time Series

Constituent: Lead (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.000203							
1/16/2019		<0.000203	<0.000203					
9/11/2019	<0.000203	<0.000203	<0.000203					
4/20/2020			<0.000203	<0.000203				
4/21/2020	<0.000203	<0.000203					<0.000203	<0.000203
5/28/2020						<0.000203		
7/6/2020					<0.000203			
8/11/2020					<0.000203	<0.000203		
8/12/2020			<0.000203					
8/17/2020				<0.000203			<0.000203	
8/19/2020	<0.000203	<0.000203						<0.000203
3/8/2021					<0.000203	<0.000203		
3/9/2021	<0.000203	<0.000203						
3/10/2021			<0.000203	<0.000203			<0.000203	<0.000203
8/17/2021					<0.000203	<0.000203		
8/18/2021	<0.000203	<0.000203		<0.000203			<0.000203	<0.000203
8/23/2021			<0.000203					
3/23/2022					<0.000203	<0.000203		
3/29/2022				<0.000203				
3/30/2022							<0.000203	<0.000203
4/4/2022			<0.000203					
4/6/2022	<0.000203	<0.000203						
10/4/2022					<0.000203	<0.000203		
10/5/2022			<0.000203					
10/18/2022				<0.000203			<0.000203	
10/19/2022	<0.000203	<0.000203						<0.000203
5/16/2023			7.3E-05 (J)					
5/17/2023					<0.000203			
5/22/2023				<0.000203		<0.000203		
5/24/2023		<0.000203						
5/30/2023	<0.000203						<0.000203	<0.000203
10/18/2023					<0.000203			
10/24/2023						<0.000203		
10/25/2023	<0.000203	<0.000203					<0.000203	<0.000203
10/31/2023			<0.000203	<0.000203				

# Time Series

Constituent: Lead (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.000203							
4/12/2016	<0.000203							
5/31/2016	<0.000203							
8/17/2016	<0.000203							
10/11/2016	<0.000203							
1/24/2017	<0.000203							
5/9/2017	<0.000203							
6/28/2017	<0.000203							
2/27/2018	<0.000203							
6/5/2018	<0.000203							
11/6/2018	<0.000203							
3/27/2019	<0.000203							
9/11/2019	<0.000203							
4/20/2020				<0.000203	<0.000203		<0.000203	
4/21/2020	<0.000203							
5/28/2020		<0.000203				<0.000203		0.0026 (J)
7/6/2020			<0.000203					
8/11/2020		<0.000203	<0.000203	<0.000203		<0.000203		<0.000203
8/12/2020	<0.000203				<0.000203		<0.000203	
3/8/2021		0.000122 (J)	<0.000203					
3/9/2021						8.75E-05 (J)		<0.000203
3/10/2021				<0.000203	9.49E-05 (J)		<0.000203	
3/16/2021	<0.000203							
8/16/2021			<0.000203					
8/17/2021		0.00029				<0.000203		0.00017 (J)
8/23/2021	<0.000203			<0.000203	<0.000203		<0.000203	
3/23/2022		0.00013 (J)	<0.000203			0.0001 (J)		<0.000203
4/4/2022	<0.000203							
4/5/2022					<0.000203		0.00031	
4/6/2022				8E-05 (J)				
10/3/2022			<0.000203					
10/4/2022		<0.000203				8E-05 (J)		9.4E-05 (J)
10/5/2022					0.000194 (J)		<0.000203	
10/17/2022	<0.000203			0.00012 (J)				
5/15/2023			7E-05 (J)					
5/17/2023	<0.000203							
5/23/2023		0.000183 (J)			<0.000203	8.5E-05 (J)	0.000166 (J)	8.2E-05 (J)
5/30/2023				0.000141 (J)				
10/18/2023			7.8E-05 (J)					
10/24/2023	0.000118 (J)	7.3E-05 (J)				<0.000203		8.3E-05 (J)
10/31/2023				0.000132 (J)	9.9E-05 (J)		0.000112 (J)	

# Time Series

Constituent: Lead (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

Date	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.000203
2/17/2016	<0.000203						<0.000203	
4/12/2016	<0.000203							
4/13/2016							<0.000203	<0.000203
5/31/2016	<0.000203						<0.000203	
6/1/2016								<0.000203
8/17/2016	<0.000203						<0.000203	<0.000203
10/11/2016	<0.000203							
10/12/2016							<0.000203	<0.000203
1/24/2017	<0.000203							
1/25/2017							<0.000203	<0.000203
5/10/2017	<0.000203						<0.000203	<0.000203
6/28/2017	<0.000203						<0.000203	<0.000203
2/27/2018	<0.000203						<0.000203	<0.000203
6/5/2018	<0.000203						<0.000203	<0.000203
11/7/2018	<0.000203						<0.000203	<0.000203
3/26/2019	<0.000203						<0.000203	<0.000203
9/10/2019	<0.000203						<0.000203	<0.000203
4/21/2020	<0.000203						<0.000203	<0.000203
8/19/2020	<0.000203						<0.000203	<0.000203
3/9/2021	<0.000203						<0.000203	<0.000203
8/17/2021		<0.000203	<0.000203	0.00011 (J)	<0.000203	0.00022		
8/24/2021	<0.000203						<0.000203	<0.000203
3/23/2022		<0.000203	<0.000203	0.00016 (J)	<0.000203	0.00016 (J)		
3/29/2022	<0.000203						<0.000203	<0.000203
10/4/2022		<0.000203	8E-05 (J)	8.3E-05 (J)	0.000134 (J)	0.000109 (J)		
10/18/2022	<0.000203						<0.000203	<0.000203
5/17/2023							8.2E-05 (J)	
5/22/2023				0.000234	<0.000203			
5/23/2023		<0.000203	0.000122 (J)					
5/30/2023	<0.000203						<0.000203	<0.000203
10/18/2023							<0.000203	
10/23/2023				<0.000203	<0.000203			
10/24/2023		<0.000203	8.5E-05 (J)					
10/25/2023	<0.000203						0.00036	<0.000203

# Time Series

Constituent: Lead (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.000203	
4/13/2016	<0.000203	
6/1/2016	<0.000203	
8/17/2016	<0.000203	
10/12/2016	<0.000203	
1/25/2017	<0.000203	
5/10/2017	<0.000203	
6/28/2017	<0.000203	
2/27/2018	<0.000203	
6/5/2018	<0.000203	
11/7/2018	<0.000203	
3/26/2019	<0.000203	
9/10/2019	<0.000203	<0.000203
4/20/2020		<0.000203
4/21/2020	<0.000203	
8/17/2020		<0.000203
8/18/2020	<0.000203	
3/9/2021	7.84E-05 (J)	
3/10/2021		<0.000203
8/17/2021		0.00022
8/24/2021	<0.000203	
3/29/2022	<0.000203	
4/5/2022		0.0002 (J)
10/5/2022		0.000298
10/18/2022	<0.000203	
5/17/2023		0.000334
5/30/2023	<0.000203	
10/24/2023		0.000414
10/25/2023	0.000163 (J)	



# Time Series

Constituent: Lithium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.115		0.502	0.51	0.632		
2/17/2016	<0.02		0.0777				0.806	0.626
4/12/2016					0.508	0.615	0.719	
4/13/2016	<0.02	0.135	0.073	0.544				0.594
5/31/2016		0.127	0.0721	0.47	0.454	0.613	0.735	
6/1/2016	<0.02							0.556
8/15/2016	<0.02							0.557
8/16/2016		0.124	0.075	0.282	0.371		0.699	
8/17/2016						0.444		
10/11/2016	0.0194 (J)						0.727	
10/12/2016		0.101	0.0703	0.217	0.282	0.387		0.589
1/24/2017	<0.02						0.689	0.522
1/25/2017		0.109	0.0683	0.108	0.0904	0.516		
5/9/2017	<0.02		0.0646	0.132	0.144	0.526		
5/10/2017		0.101					0.603	0.552
6/27/2017	<0.02						0.558	0.523
6/28/2017		0.0954	0.109	0.126	0.146	0.626		
2/27/2018	<0.02	0.111	0.11			0.562		
2/28/2018				0.0786	0.0738		0.571	0.544
6/4/2018	<0.02							
6/5/2018		0.104	0.102				0.492	0.49
6/6/2018				0.067	0.148	1.06		
11/5/2018			0.0641	0.0912	0.0914			
11/6/2018	<0.02						0.547	0.54
11/7/2018		0.11				0.604		
3/26/2019				0.0532	0.123		0.57	0.558
3/27/2019	<0.02	0.115	0.119			1.11		
9/10/2019	<0.02	0.112	0.124	0.0598		0.765	0.6	0.581
9/11/2019					0.246			
4/20/2020					0.201		0.604	0.62
4/21/2020	<0.02			0.166		0.672		
4/22/2020		0.123	0.126					
8/11/2020						0.712		0.599
8/12/2020							0.594	
8/17/2020	<0.02							
8/18/2020		0.124	0.109	0.0892	0.42			
3/9/2021						0.791		0.692
3/10/2021			0.0826	0.125			0.63	
3/15/2021		0.155			0.308			
3/16/2021	<0.02							
8/17/2021	<0.02							0.647
8/24/2021		0.198						
8/25/2021			0.132	0.117	0.5	0.985	0.622	
3/29/2022				0.13			0.534	
3/30/2022			0.0615					
4/4/2022	<0.02	0.329				0.607		
4/6/2022					0.584			0.638
10/5/2022	<0.02							
10/17/2022			0.0928	0.122	0.764			
10/18/2022		0.241				0.478	0.556	0.594
5/16/2023	<0.02							
5/17/2023			0.124					

# Time Series

Constituent: Lithium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							0.556	
5/24/2023		0.223				0.578		
5/30/2023				0.116				
5/31/2023					0.371			0.603
10/24/2023	0.0081 (J)						0.542	
10/25/2023			0.2	0.0953	0.15			0.552
11/1/2023		0.152				0.542		

# Time Series

Constituent: Lithium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				0.513				
2/17/2016	0.612	0.67	<0.02		<0.02	<0.02	<0.02	
4/12/2016		0.655			<0.02	<0.02	<0.02	
4/13/2016	0.694		<0.02	0.532				
6/1/2016	0.675	0.666	<0.02	0.513	<0.02	<0.02	<0.02	
8/15/2016	0.571	0.558	<0.02					
8/16/2016				0.301	<0.02	<0.02		
8/17/2016							<0.02	<0.02
9/20/2016								<0.02
10/11/2016			<0.02		<0.02	<0.02	<0.02	
10/12/2016	0.622	0.56		0.22				<0.02
11/15/2016								<0.02
1/4/2017								<0.02
1/23/2017								<0.02
1/24/2017	0.752	0.374	<0.02		<0.02	<0.02	<0.02	
1/25/2017				0.107				
5/9/2017			<0.02	0.113	<0.02		<0.02	<0.02
5/10/2017	0.622	0.443				<0.02		
6/27/2017	0.597	0.451			<0.02			<0.02
6/28/2017			<0.02	0.0962		<0.02	<0.02	
2/27/2018			<0.02		<0.02	<0.02		<0.02
2/28/2018	0.73	0.343		0.0594			<0.02	
6/4/2018			<0.02					
6/5/2018	0.531	0.353			<0.02	<0.02		<0.02
6/6/2018				0.0469 (J)			<0.02	
11/5/2018				0.0902				
11/6/2018	0.583	0.369	<0.02				<0.02	<0.02
11/7/2018					<0.02	<0.02		
3/26/2019	0.595	0.378		0.0531	<0.02	<0.02		<0.02
3/27/2019			<0.02				<0.02	
9/9/2019	0.571	0.408	<0.02					
9/10/2019				0.0862	<0.02	<0.02	<0.02	
9/11/2019								<0.02
4/21/2020	0.629	0.386	<0.02	0.0782	<0.02			<0.02
4/22/2020						<0.02	<0.02	
8/11/2020	0.552						<0.02	
8/12/2020		0.326			<0.02	<0.02		
8/17/2020			<0.02					
8/18/2020				0.0718				<0.02
3/9/2021	0.864	0.364						
3/10/2021				0.146	<0.02	<0.02	<0.02	
3/15/2021								<0.02
3/16/2021			<0.02					
8/17/2021	0.585	0.335	<0.02					
8/18/2021								<0.02
8/24/2021					<0.02	<0.02	<0.02	
8/25/2021				0.0872				
3/28/2022			<0.02		<0.02			
3/29/2022							<0.02	
3/30/2022				0.082				
4/4/2022	0.647					<0.02		<0.02
4/6/2022		0.312						

# Time Series

Constituent: Lithium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			<0.02					
10/17/2022		0.321		0.0902	<0.02	<0.02		
10/18/2022	0.656						<0.02	
10/19/2022								<0.02
5/16/2023					<0.02	<0.02		
5/17/2023	0.708		<0.02					
5/22/2023		0.286						
5/30/2023				0.0683			<0.02	<0.02
10/23/2023	0.655	0.276						
10/24/2023			<0.02					<0.02
10/25/2023				0.0599	<0.02	<0.02		
11/1/2023							<0.02	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.02				
4/12/2016				<0.02				
6/1/2016				<0.02				
8/15/2016				<0.02				
8/16/2016			<0.02		<0.02	<0.02	<0.02	<0.02
8/17/2016	<0.02	<0.02						
9/19/2016						<0.02	<0.02	<0.02
9/20/2016	<0.02	<0.02	<0.02		<0.02			
10/11/2016			<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
10/12/2016	<0.02	<0.02						
11/14/2016						<0.02	<0.02	<0.02
11/15/2016	<0.02	<0.02	<0.02		<0.02			
1/3/2017						<0.02	<0.02	<0.02
1/4/2017	<0.02	<0.02	<0.02		<0.02			
1/23/2017	<0.02				<0.02			
1/24/2017		<0.02		<0.02		<0.02	<0.02	
1/25/2017								<0.02
1/26/2017			<0.02					
5/9/2017	<0.02	<0.02	<0.02	<0.02	<0.02			
5/10/2017						<0.02	<0.02	<0.02
6/27/2017	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02
6/28/2017				<0.02				
2/27/2018	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
6/4/2018				<0.02				
6/5/2018	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02
11/5/2018							<0.02	
11/6/2018	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		<0.02
3/26/2019	<0.02	<0.02	<0.02		<0.02			
3/27/2019				<0.02		<0.02	<0.02	<0.02
9/9/2019				<0.02				
9/11/2019	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02
4/20/2020				<0.02				
4/21/2020	<0.02	<0.02	<0.02		<0.02			
4/22/2020						<0.02	<0.02	<0.02
8/11/2020						<0.02		
8/12/2020							<0.02	<0.02
8/17/2020				<0.02				
8/18/2020	<0.02	<0.02	<0.02		<0.02			
3/15/2021	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02
3/16/2021				<0.02				
8/17/2021				<0.02				
8/18/2021	<0.02	<0.02	<0.02		<0.02			
8/23/2021						<0.02	<0.02	<0.02
3/28/2022	<0.02	<0.02	<0.02		<0.02	<0.02	<0.02	<0.02
4/5/2022				<0.02				
10/5/2022				<0.02		<0.02	<0.02	<0.02
10/19/2022	<0.02	<0.02	<0.02		<0.02			
5/17/2023				<0.02				
5/22/2023							<0.02	<0.02
5/23/2023						<0.02		
5/30/2023	<0.02	<0.02	<0.02		<0.02			
10/24/2023	<0.02	<0.02	<0.02	<0.02	<0.02			

# Time Series

Constituent: Lithium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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10/30/2023	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
					<0.02	<0.02	<0.02

# Time Series

Constituent: Lithium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.02			
1/15/2019				0.0141 (J)		0.399	0.407	0.0411
1/16/2019		<0.02						
1/17/2019	<0.02							
1/30/2019			<0.02					
9/10/2019	<0.02						0.545	
9/11/2019		<0.02	<0.02		<0.02	0.45		0.0396
4/20/2020							0.628	
4/21/2020		<0.02						
4/22/2020	<0.02		<0.02	0.0134 (J)	<0.02	0.41		
4/29/2020								0.041
8/11/2020			<0.02			0.47		
8/12/2020	<0.02						0.669	
8/18/2020		<0.02						0.039
8/19/2020				0.0108 (J)	<0.02			
3/9/2021			<0.02			0.474		
3/10/2021					<0.02		0.772	
3/15/2021	<0.02							0.0459
3/16/2021		<0.02		0.0107 (J)				
8/23/2021	<0.02							
8/24/2021		<0.02	<0.02	0.0112 (J)	<0.02	0.47		
8/25/2021							0.734	0.0545
3/28/2022	<0.02							
3/29/2022				0.00867 (J)				
3/30/2022			<0.02		<0.02		0.707	
4/6/2022		<0.02				0.336		0.0809
10/5/2022							0.729	
10/17/2022		<0.02	<0.02	0.00728 (J)				
10/18/2022					<0.02	0.377		0.0617
10/19/2022	<0.02							
5/22/2023			<0.02					
5/23/2023		<0.02		0.00795 (J)	<0.02			
5/24/2023						0.378		
5/31/2023	<0.02						0.738	0.0792
10/23/2023					<0.02			
10/24/2023		<0.02					0.681	
10/25/2023			<0.02	<0.02				
10/31/2023						0.361		0.125
11/1/2023	<0.02							

# Time Series

Constituent: Lithium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	0.0146 (J)							
1/16/2019		0.178	<0.02					
9/11/2019	0.0169 (J)	0.254	<0.02					
4/20/2020			<0.02	0.148				
4/21/2020	0.0174 (J)	0.376					0.0924	0.0733
5/28/2020						0.0527		
7/6/2020					0.089			
8/11/2020					0.097	0.0457		
8/12/2020			<0.02					
8/17/2020				0.212			0.108	
8/19/2020	0.0168 (J)	0.336						0.0511
3/8/2021					0.0991	0.0456		
3/9/2021	0.0172 (J)	0.448						
3/10/2021			<0.02	0.194			0.102	0.0681
8/17/2021					0.112	0.0453		
8/18/2021	0.0304	0.344		0.367			0.0821	0.0538
8/23/2021			<0.02					
3/23/2022					0.122	0.0531		
3/29/2022				0.411				
3/30/2022							0.0704	0.0726
4/4/2022			<0.02					
4/6/2022	0.0231	0.261						
10/4/2022					0.125	0.0422		
10/5/2022			<0.02					
10/18/2022				0.296			0.061	
10/19/2022	0.0212	0.225						0.0722
5/16/2023			<0.02					
5/17/2023					0.108			
5/22/2023				0.47		0.0366		
5/24/2023		0.184						
5/30/2023	0.029						0.0482	0.0691
10/18/2023					0.137			
10/24/2023						0.0362		
10/25/2023	0.0437	0.122					0.0435	0.0668
10/31/2023			<0.02	0.501				



# Time Series

Constituent: Lithium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.0883							
4/12/2016	0.0862							
5/31/2016	0.085							
8/17/2016	0.093							
10/11/2016	0.0928							
1/24/2017	0.094							
5/9/2017	0.0865							
6/28/2017	0.0879							
2/27/2018	0.113							
6/5/2018	0.101							
11/6/2018	0.116							
3/27/2019	0.0988							
9/11/2019	0.117							
4/20/2020				0.0107 (J)	0.101		<0.02	
4/21/2020	0.13							
5/28/2020		0.0979				<0.02		<0.02
7/6/2020			<0.02					
8/11/2020		0.0825	<0.02	0.0125 (J)		<0.02		<0.02
8/12/2020	0.132				0.105		<0.02	
3/8/2021		0.119	<0.02					
3/9/2021						<0.02		<0.02
3/10/2021				<0.02	0.0906		<0.02	
3/16/2021	0.149							
8/16/2021			<0.02					
8/17/2021		0.106				<0.02		<0.02
8/23/2021	0.116			<0.02	0.0805		<0.02	
3/23/2022		0.11	<0.02			<0.02		<0.02
4/4/2022	0.102							
4/5/2022					0.0584		<0.02	
4/6/2022				<0.02				
10/3/2022			<0.02					
10/4/2022		0.0749				<0.02		<0.02
10/5/2022					0.065		<0.02	
10/17/2022	0.0901			0.00881 (J)				
5/15/2023			<0.02					
5/17/2023	0.0817							
5/23/2023		0.0737			0.0523	<0.02	<0.02	<0.02
5/30/2023				<0.02				
10/18/2023			<0.02					
10/24/2023	0.0814	0.0673				<0.02		<0.02
10/31/2023				0.00794 (J)	0.0648		<0.02	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.02
2/17/2016	<0.02						<0.02	
4/12/2016	<0.02							
4/13/2016							<0.02	<0.02
5/31/2016	<0.02						<0.02	
6/1/2016								0.0101 (J)
8/17/2016	<0.02						<0.02	0.0143 (J)
10/11/2016	<0.02							
10/12/2016							<0.02	0.0166 (J)
1/24/2017	0.0591							
1/25/2017							<0.02	0.0272 (J)
5/10/2017	0.0519						<0.02	0.0436 (J)
6/28/2017	0.0403 (J)						<0.02	0.0401 (J)
2/27/2018	0.0201 (J)						<0.02	0.0309 (J)
6/5/2018	0.0218 (J)						<0.02	0.0286 (J)
11/7/2018	0.0141 (J)						<0.02	0.0371
3/26/2019	0.0192 (J)						<0.02	0.0537
9/10/2019	0.0267						<0.02	0.0928
4/21/2020	0.0518						<0.02	0.0582
8/19/2020	0.0197 (J)						<0.02	0.0511
3/9/2021	0.013 (J)						<0.02	0.0249
8/17/2021		<0.02	<0.02	<0.02	<0.02	0.142		
8/24/2021	0.00951 (J)						<0.02	0.0155 (J)
3/23/2022		<0.02	<0.02	<0.02	<0.02	0.159		
3/29/2022	<0.02						<0.02	0.00828 (J)
10/4/2022		<0.02	<0.02	<0.02	<0.02	0.16		
10/18/2022	<0.02						<0.02	<0.02
5/17/2023						0.156		
5/22/2023				<0.02	<0.02			
5/23/2023		<0.02	<0.02					
5/30/2023	<0.02						<0.02	<0.02
10/18/2023						0.169		
10/23/2023				<0.02	<0.02			
10/24/2023		<0.02	<0.02					
10/25/2023	<0.02						<0.02	<0.02

# Time Series

Constituent: Lithium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	0.0359 (J)	
4/13/2016	0.0276 (J)	
6/1/2016	0.0296 (J)	
8/17/2016	0.0398 (J)	
10/12/2016	0.0433 (J)	
1/25/2017	0.0366 (J)	
5/10/2017	0.039 (J)	
6/28/2017	0.0345 (J)	
2/27/2018	0.0349 (J)	
6/5/2018	0.0338 (J)	
11/7/2018	0.0616	
3/26/2019	0.0931	
9/10/2019	0.128	<0.02
4/20/2020		<0.02
4/21/2020	0.0693	
8/17/2020		<0.02
8/18/2020	0.0591	
3/9/2021	0.0417	
3/10/2021		<0.02
8/17/2021		<0.02
8/24/2021	0.0383	
3/29/2022	0.0126 (J)	
4/5/2022		<0.02
10/5/2022		<0.02
10/18/2022	0.0189 (J)	
5/17/2023		<0.02
5/30/2023	0.0188 (J)	
10/24/2023		<0.02
10/25/2023	0.0121 (J)	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.0005		<0.0005	<0.0005	<0.0005		
2/17/2016	<0.0005		<0.0005				<0.0005	<0.0005
4/12/2016					<0.0005	<0.0005	<0.0005	
4/13/2016	<0.0005	<0.0005	<0.0005	<0.0005				<0.0005
5/31/2016		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
6/1/2016	<0.0005							<0.0005
8/15/2016	<0.0005							<0.0005
8/16/2016		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	
8/17/2016						<0.0005		
10/11/2016	<0.0005						<0.0005	
10/12/2016		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
1/24/2017	<0.0005						<0.0005	<0.0005
1/25/2017		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
5/9/2017	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005		
5/10/2017		<0.0005					<0.0005	<0.0005
6/27/2017	<0.0005						<0.0005	<0.0005
6/28/2017		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
2/27/2018	<0.0005	<0.0005	<0.0005			<0.0005		
2/28/2018				<0.0005	<0.0005		<0.0005	<0.0005
6/4/2018	<0.0005							
6/5/2018		<0.0005	<0.0005				<0.0005	<0.0005
6/6/2018				<0.0005	<0.0005	<0.0005		
11/5/2018			<0.0005	<0.0005	<0.0005			
11/6/2018	<0.0005						<0.0005	<0.0005
11/7/2018		<0.0005				<0.0005		
3/26/2019				<0.0005	<0.0005		<0.0005	<0.0005
3/27/2019	<0.0005	<0.0005	<0.0005			<0.0005		
9/10/2019	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
9/11/2019					<0.0005			
4/20/2020					<0.0005		<0.0005	<0.0005
4/21/2020	<0.0005			<0.0005		<0.0005		
4/22/2020		<0.0005	<0.0005					
8/11/2020						<0.0005		<0.0005
8/12/2020							<0.0005	
8/17/2020	<0.0005							
8/18/2020		<0.0005	<0.0005	<0.0005	<0.0005			
3/9/2021						<0.0005		<0.0005
3/10/2021			<0.0005	<0.0005			<0.0005	
3/15/2021		<0.0005			<0.0005			
3/16/2021	<0.0005							
8/17/2021	<0.0005							<0.0005
8/24/2021		<0.0005						
8/25/2021			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
3/29/2022				<0.0005			<0.0005	
3/30/2022			<0.0005					
4/4/2022	<0.0005	<0.0005				<0.0005		
4/6/2022					<0.0005			<0.0005
10/5/2022	<0.0005							
10/17/2022			<0.0005	<0.0005	<0.0005			
10/18/2022		<0.0005				<0.0005	<0.0005	<0.0005
5/16/2023	<0.0005							
5/17/2023			<0.0005					

# Time Series

Constituent: Mercury (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							<0.0005	
5/24/2023		<0.0005				<0.0005		
5/30/2023				<0.0005				
5/31/2023					<0.0005			<0.0005
10/24/2023	<0.0005						<0.0005	
10/25/2023			0.000321 (J)	<0.0005	<0.0005			<0.0005
11/1/2023		<0.0005				<0.0005		

# Time Series

Constituent: Mercury (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.0005				
2/17/2016	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	
4/12/2016		<0.0005			<0.0005	<0.0005	<0.0005	
4/13/2016	<0.0005		<0.0005	<0.0005				
6/1/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8/15/2016	<0.0005	<0.0005	<0.0005					
8/16/2016				<0.0005	<0.0005	<0.0005		
8/17/2016							<0.0005	<0.0005
9/20/2016								<0.0005
10/11/2016			<0.0005		<0.0005	<0.0005	<0.0005	
10/12/2016	<0.0005	<0.0005		<0.0005				<0.0005
11/15/2016								<0.0005
1/4/2017								<0.0005
1/23/2017								<0.0005
1/24/2017	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	
1/25/2017				<0.0005				
5/9/2017			<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
5/10/2017	<0.0005	<0.0005				<0.0005		
6/27/2017	<0.0005	<0.0005			<0.0005			<0.0005
6/28/2017			<0.0005	<0.0005		<0.0005	<0.0005	
2/27/2018			<0.0005		<0.0005	<0.0005		<0.0005
2/28/2018	<0.0005	<0.0005		<0.0005			<0.0005	
6/4/2018			<0.0005					
6/5/2018	<0.0005	<0.0005			<0.0005	<0.0005		<0.0005
6/6/2018				<0.0005			<0.0005	
11/5/2018				<0.0005				
11/6/2018	<0.0005	<0.0005	<0.0005				<0.0005	<0.0005
11/7/2018					<0.0005	<0.0005		
3/26/2019	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005		<0.0005
3/27/2019			<0.0005				<0.0005	
9/9/2019	<0.0005	<0.0005	<0.0005					
9/10/2019				<0.0005	<0.0005	<0.0005	<0.0005	
9/11/2019								<0.0005
4/21/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005
4/22/2020						<0.0005	<0.0005	
8/11/2020	<0.0005						<0.0005	
8/12/2020		<0.0005			<0.0005	<0.0005		
8/17/2020			<0.0005					
8/18/2020				<0.0005				<0.0005
3/9/2021	<0.0005	<0.0005						
3/10/2021				<0.0005	<0.0005	<0.0005	<0.0005	
3/15/2021								<0.0005
3/16/2021			<0.0005					
8/17/2021	<0.0005	<0.0005	<0.0005					
8/18/2021								<0.0005
8/24/2021					<0.0005	<0.0005	<0.0005	
8/25/2021				<0.0005				
3/28/2022			<0.0005		<0.0005			
3/29/2022							<0.0005	
3/30/2022				<0.0005				
4/4/2022	<0.0005					<0.0005		<0.0005
4/6/2022		<0.0005						

# Time Series

Constituent: Mercury (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			<0.0005					
10/17/2022		<0.0005		<0.0005	<0.0005	<0.0005		
10/18/2022	<0.0005						<0.0005	
10/19/2022								<0.0005
5/16/2023					<0.0005	<0.0005		
5/17/2023	<0.0005		<0.0005					
5/22/2023		<0.0005						
5/30/2023				<0.0005			<0.0005	<0.0005
10/23/2023	<0.0005	<0.0005						
10/24/2023			<0.0005					<0.0005
10/25/2023				<0.0005	<0.0005	<0.0005		
11/1/2023							<0.0005	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.0005				
4/12/2016				<0.0005				
6/1/2016				<0.0005				
8/15/2016				<0.0005				
8/16/2016			<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
8/17/2016	<0.0005	<0.0005						
9/19/2016						<0.0005	<0.0005	<0.0005
9/20/2016	<0.0005	<0.0005	<0.0005		<0.0005			
10/11/2016			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/12/2016	<0.0005	<0.0005						
11/14/2016						<0.0005	<0.0005	<0.0005
11/15/2016	<0.0005	<0.0005	<0.0005		<0.0005			
1/3/2017						<0.0005	<0.0005	<0.0005
1/4/2017	<0.0005	<0.0005	<0.0005		<0.0005			
1/23/2017	<0.0005				<0.0005			
1/24/2017		<0.0005		<0.0005		<0.0005	<0.0005	
1/25/2017								<0.0005
1/26/2017			<0.0005					
5/9/2017	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
5/10/2017						<0.0005	<0.0005	<0.0005
6/27/2017	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
6/28/2017				<0.0005				
2/27/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6/4/2018				<0.0005				
6/5/2018	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
11/5/2018							<0.0005	
11/6/2018	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
3/26/2019	<0.0005	<0.0005	<0.0005		<0.0005			
3/27/2019				<0.0005		<0.0005	<0.0005	<0.0005
9/9/2019				<0.0005				
9/11/2019	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
4/20/2020				<0.0005				
4/21/2020	<0.0005	<0.0005	<0.0005		<0.0005			
4/22/2020						<0.0005	<0.0005	<0.0005
8/11/2020						<0.0005		
8/12/2020							<0.0005	<0.0005
8/17/2020				<0.0005				
8/18/2020	<0.0005	<0.0005	<0.0005		<0.0005			
3/15/2021	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
3/16/2021				<0.0005				
8/17/2021				<0.0005				
8/18/2021	<0.0005	<0.0005	<0.0005		<0.0005			
8/23/2021						<0.0005	<0.0005	<0.0005
3/28/2022	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
4/5/2022				<0.0005				
10/5/2022				<0.0005		<0.0005	<0.0005	<0.0005
10/19/2022	<0.0005	<0.0005	<0.0005		<0.0005			
5/17/2023				<0.0005				
5/22/2023							<0.0005	<0.0005
5/23/2023						<0.0005		
5/30/2023	<0.0005	<0.0005	<0.0005		<0.0005			
10/24/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			



# Time Series

Constituent: Mercury (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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10/30/2023	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
					<0.0005		<0.0005	<0.0005

# Time Series

Constituent: Mercury (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.0005			
1/15/2019				<0.0005		<0.0005	<0.0005	<0.0005
1/16/2019		<0.0005						
1/17/2019	<0.0005							
1/30/2019			<0.0005					
9/10/2019	<0.0005						<0.0005	
9/11/2019		<0.0005	<0.0005		<0.0005	<0.0005		<0.0005
4/20/2020							<0.0005	
4/21/2020		<0.0005						
4/22/2020	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005		
4/29/2020								<0.0005
8/11/2020			<0.0005			<0.0005		
8/12/2020	<0.0005						<0.0005	
8/18/2020		<0.0005						<0.0005
8/19/2020				<0.0005	<0.0005			
3/9/2021			<0.0005			<0.0005		
3/10/2021					<0.0005		<0.0005	
3/15/2021	<0.0005							<0.0005
3/16/2021		<0.0005		<0.0005				
8/23/2021	<0.0005							
8/24/2021		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
8/25/2021							<0.0005	<0.0005
3/28/2022	<0.0005							
3/29/2022				<0.0005				
3/30/2022			<0.0005		<0.0005		<0.0005	
4/6/2022		<0.0005				<0.0005		<0.0005
10/5/2022							<0.0005	
10/17/2022		<0.0005	<0.0005	<0.0005				
10/18/2022					<0.0005	<0.0005		<0.0005
10/19/2022	<0.0005							
5/22/2023			<0.0005					
5/23/2023		<0.0005		<0.0005	<0.0005			
5/24/2023						<0.0005		
5/31/2023	<0.0005						<0.0005	<0.0005
10/23/2023					<0.0005			
10/24/2023		<0.0005					<0.0005	
10/25/2023			<0.0005	<0.0005				
10/31/2023						<0.0005		<0.0005
11/1/2023	<0.0005							

# Time Series

Constituent: Mercury (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.0005							
1/16/2019		<0.0005	<0.0005					
9/11/2019	<0.0005	<0.0005	<0.0005					
4/20/2020			<0.0005	<0.0005				
4/21/2020	<0.0005	<0.0005					<0.0005	<0.0005
5/28/2020						<0.0005		
7/6/2020					<0.0005			
8/11/2020					<0.0005	<0.0005		
8/12/2020			<0.0005					
8/17/2020				<0.0005			<0.0005	
8/19/2020	<0.0005	<0.0005						<0.0005
3/8/2021					<0.0005	<0.0005		
3/9/2021	<0.0005	<0.0005						
3/10/2021			<0.0005	<0.0005			<0.0005	<0.0005
8/17/2021					<0.0005	<0.0005		
8/18/2021	<0.0005	<0.0005		<0.0005			<0.0005	<0.0005
8/23/2021			<0.0005					
3/23/2022					<0.0005	<0.0005		
3/29/2022				<0.0005				
3/30/2022							<0.0005	<0.0005
4/4/2022			<0.0005					
4/6/2022	<0.0005	<0.0005						
10/4/2022					<0.0005	<0.0005		
10/5/2022			<0.0005					
10/18/2022				<0.0005			<0.0005	
10/19/2022	<0.0005	<0.0005						<0.0005
5/16/2023			<0.0005					
5/17/2023					<0.0005			
5/22/2023				<0.0005		<0.0005		
5/24/2023		<0.0005						
5/30/2023	<0.0005						<0.0005	<0.0005
10/18/2023					<0.0005			
10/24/2023						<0.0005		
10/25/2023	<0.0005	<0.0005					<0.0005	<0.0005
10/31/2023			<0.0005	<0.0005				

# Time Series

Constituent: Mercury (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.0005							
4/12/2016	<0.0005							
5/31/2016	<0.0005							
8/17/2016	<0.0005							
10/11/2016	<0.0005							
1/24/2017	<0.0005							
5/9/2017	<0.0005							
6/28/2017	<0.0005							
2/27/2018	<0.0005							
6/5/2018	<0.0005							
11/6/2018	<0.0005							
3/27/2019	<0.0005							
9/11/2019	<0.0005							
4/20/2020				<0.0005	<0.0005		<0.0005	
4/21/2020	<0.0005							
5/28/2020		<0.0005				<0.0005		<0.0005
7/6/2020			<0.0005					
8/11/2020		<0.0005	<0.0005	<0.0005		<0.0005		<0.0005
8/12/2020	<0.0005				<0.0005		<0.0005	
3/8/2021		<0.0005	<0.0005					
3/9/2021						<0.0005		<0.0005
3/10/2021				<0.0005	<0.0005		<0.0005	
3/16/2021	<0.0005							
8/16/2021			<0.0005					
8/17/2021		<0.0005				<0.0005		<0.0005
8/23/2021	<0.0005			<0.0005	<0.0005		<0.0005	
3/23/2022		<0.0005	<0.0005			<0.0005		<0.0005
4/4/2022	<0.0005							
4/5/2022					<0.0005		<0.0005	
4/6/2022				<0.0005				
10/3/2022			<0.0005					
10/4/2022		<0.0005				<0.0005		<0.0005
10/5/2022					<0.0005		<0.0005	
10/17/2022	<0.0005			<0.0005				
5/15/2023			<0.0005					
5/17/2023	<0.0005							
5/23/2023		<0.0005			<0.0005	<0.0005	<0.0005	<0.0005
5/30/2023				<0.0005				
10/18/2023			<0.0005					
10/24/2023	<0.0005	<0.0005				<0.0005		<0.0005
10/31/2023				<0.0005	0.000331 (J)		<0.0005	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.0005
2/17/2016	<0.0005						<0.0005	
4/12/2016	<0.0005							
4/13/2016							<0.0005	<0.0005
5/31/2016	<0.0005						<0.0005	
6/1/2016								<0.0005
8/17/2016	<0.0005						<0.0005	<0.0005
10/11/2016	<0.0005							
10/12/2016							<0.0005	<0.0005
1/24/2017	<0.0005							
1/25/2017							<0.0005	<0.0005
5/10/2017	<0.0005						<0.0005	<0.0005
6/28/2017	<0.0005						<0.0005	<0.0005
2/27/2018	<0.0005						<0.0005	<0.0005
6/5/2018	<0.0005						<0.0005	<0.0005
11/7/2018	<0.0005						<0.0005	<0.0005
3/26/2019	<0.0005						<0.0005	<0.0005
9/10/2019	<0.0005						<0.0005	<0.0005
4/21/2020	<0.0005						<0.0005	<0.0005
8/19/2020	<0.0005						<0.0005	<0.0005
3/9/2021	<0.0005						<0.0005	<0.0005
8/17/2021		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
8/24/2021	<0.0005						<0.0005	<0.0005
3/23/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
3/29/2022	<0.0005						<0.0005	<0.0005
10/4/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
10/18/2022	<0.0005						<0.0005	<0.0005
5/17/2023						<0.0005		
5/22/2023				<0.0005	<0.0005			
5/23/2023		<0.0005	<0.0005					
5/30/2023	<0.0005						<0.0005	<0.0005
10/18/2023						<0.0005		
10/23/2023				<0.0005	<0.0005			
10/24/2023		<0.0005	<0.0005					
10/25/2023	<0.0005						<0.0005	<0.0005

# Time Series

Constituent: Mercury (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.0005	
4/13/2016	<0.0005	
6/1/2016	<0.0005	
8/17/2016	<0.0005	
10/12/2016	<0.0005	
1/25/2017	<0.0005	
5/10/2017	<0.0005	
6/28/2017	<0.0005	
2/27/2018	<0.0005	
6/5/2018	<0.0005	
11/7/2018	<0.0005	
3/26/2019	<0.0005	
9/10/2019	<0.0005	<0.0005
4/20/2020		<0.0005
4/21/2020	<0.0005	
8/17/2020		<0.0005
8/18/2020	<0.0005	
3/9/2021	<0.0005	
3/10/2021		<0.0005
8/17/2021		<0.0005
8/24/2021	<0.0005	
3/29/2022	<0.0005	
4/5/2022		<0.0005
10/5/2022		<0.0005
10/18/2022	<0.0005	
5/17/2023		<0.0005
5/30/2023	<0.0005	
10/24/2023		<0.0005
10/25/2023	<0.0005	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		0.0101		0.107	0.0769	0.00839 (J)		
2/17/2016	<0.01015		0.00651 (J)				<0.01015	<0.01015
4/12/2016					0.0442	0.00918 (J)	<0.01015	
4/13/2016	<0.01015	0.0127	0.00646 (J)	0.101				<0.01015
5/31/2016		0.0106	0.00546 (J)	0.0915	0.0481	0.00877 (J)	<0.01015	
6/1/2016	<0.01015							<0.01015
8/15/2016	<0.01015							<0.01015
8/16/2016		0.00991 (J)	0.00582 (J)	0.127	0.0956		<0.01015	
8/17/2016						0.0236		
10/11/2016	<0.01015						<0.01015	
10/12/2016		0.00919 (J)	0.00589 (J)	0.11	0.114	0.0289		<0.01015
1/24/2017	<0.01015						<0.01015	<0.01015
1/25/2017		0.0101	0.00556 (J)	0.0741	0.078	0.00501 (J)		
5/9/2017	<0.01015		0.0058 (J)	0.0883	0.0484	0.0108		
5/10/2017		0.00984 (J)					<0.01015	<0.01015
6/27/2017	<0.01015						<0.01015	<0.01015
6/28/2017		0.0102	0.00616 (J)	0.109	0.0598	0.00752 (J)		
2/27/2018	<0.01015	0.011	0.00962 (J)			0.0121		
2/28/2018				0.0903	0.0346		<0.01015	<0.01015
6/4/2018	<0.01015							
6/5/2018		0.00752 (J)	0.00984 (J)				<0.01015	<0.01015
6/6/2018				0.0757	0.0253	0.0101		
11/5/2018			0.00944 (J)	0.0906	0.044			
11/6/2018	<0.01015						<0.01015	<0.01015
11/7/2018		0.00748 (J)				0.0155		
3/26/2019				0.11	0.0262		<0.01015	<0.01015
3/27/2019	<0.01015	0.00778 (J)	0.0151			0.0167		
9/10/2019	<0.01015	0.00757 (J)	0.0205	0.134		0.0125	<0.01015	<0.01015
9/11/2019					0.0226			
4/20/2020					0.0924		<0.01015	<0.01015
4/21/2020	<0.01015			0.0947		0.0141		
4/22/2020		0.00747 (J)	0.0147					
8/11/2020						0.0117		<0.01015
8/12/2020							<0.01015	
8/17/2020	<0.01015							
8/18/2020		0.00808 (J)	0.0146	0.0938	0.145			
3/9/2021						0.0205		0.000113 (J)
3/10/2021			0.00701	0.0611			<0.01015	
3/15/2021		0.0103			0.0146			
3/16/2021	0.000117 (J)							
8/17/2021	<0.01015							0.00014 (J)
8/24/2021		0.0132						
8/25/2021			0.0106	0.0547	0.0319	0.0127	<0.01015	
3/29/2022				0.0514			<0.01015	
3/30/2022			0.00425					
4/4/2022	<0.01015	0.0117				0.0166		
4/6/2022					0.0201			0.00015 (J)
10/5/2022	<0.01015							
10/17/2022			0.0119	0.0568	0.0197			
10/18/2022		0.0075				0.0181	<0.01015	0.000194 (J)
5/16/2023	<0.01015							
5/17/2023			0.017					

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							<0.01015	
5/24/2023		0.00638 (J)				0.0152		
5/30/2023				0.058				
5/31/2023					0.0119			<0.01015
10/24/2023	<0.01015						<0.01015	
10/25/2023			0.0177	0.0414	0.0269			<0.01015
11/1/2023		<0.01015				0.0277		



# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				0.0433				
2/17/2016	0.066	<0.01015	<0.01015		<0.01015	<0.01015	<0.01015	
4/12/2016		<0.01015			<0.01015	<0.01015	<0.01015	
4/13/2016	0.0835		<0.01015	0.0567				
6/1/2016	0.0835	<0.01015	<0.01015	0.0565	<0.01015	<0.01015	<0.01015	
8/15/2016	0.0838	<0.01015	<0.01015					
8/16/2016				0.0791	<0.01015	<0.01015		
8/17/2016							<0.01015	<0.01015
9/20/2016								<0.01015
10/11/2016			<0.01015		<0.01015	<0.01015	<0.01015	
10/12/2016	0.111	<0.01015		0.0767				<0.01015
11/15/2016								<0.01015
1/4/2017								<0.01015
1/23/2017								<0.01015
1/24/2017	0.111	<0.01015	<0.01015		<0.01015	<0.01015	<0.01015	
1/25/2017				0.0398				
5/9/2017			<0.01015	0.0467	<0.01015		<0.01015	<0.01015
5/10/2017	0.0566	<0.01015				<0.01015		
6/27/2017	0.0702	<0.01015			<0.01015			<0.01015
6/28/2017			<0.01015	0.0833		<0.01015	<0.01015	
2/27/2018			<0.01015		<0.01015	<0.01015		<0.01015
2/28/2018	0.0957	<0.01015		0.0643			<0.01015	
6/4/2018			<0.01015					
6/5/2018	0.0363	<0.01015			<0.01015	<0.01015		<0.01015
6/6/2018				0.0579			<0.01015	
11/5/2018				0.0548				
11/6/2018	0.0418	<0.01015	<0.01015				<0.01015	<0.01015
11/7/2018					<0.01015	<0.01015		
3/26/2019	0.062	<0.01015		0.071	<0.01015	<0.01015		<0.01015
3/27/2019			<0.01015				<0.01015	
9/9/2019	0.0681	<0.01015	<0.01015					
9/10/2019				0.0609	<0.01015	<0.01015	<0.01015	
9/11/2019								<0.01015
4/21/2020	0.0694	<0.01015	<0.01015	0.0562	<0.01015			<0.01015
4/22/2020						<0.01015	<0.01015	
8/11/2020	0.0506						<0.01015	
8/12/2020		<0.01015			<0.01015	<0.01015		
8/17/2020			<0.01015					
8/18/2020				0.0505				<0.01015
3/9/2021	0.067	0.000362						
3/10/2021				0.0123	0.000179 (J)	<0.01015	8.43E-05 (J)	
3/15/2021								<0.01015
3/16/2021			8.04E-05 (J)					
8/17/2021	0.0468	0.0004	0.00017 (J)					
8/18/2021								<0.01015
8/24/2021					0.00017 (J)	<0.01015	<0.01015	
8/25/2021				0.00789				
3/28/2022			<0.01015		0.00012 (J)			
3/29/2022							<0.01015	
3/30/2022				0.00682				
4/4/2022	0.054					<0.01015		<0.01015
4/6/2022		0.00032						

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			<0.01015					
10/17/2022		0.000305		0.00666	<0.01015	<0.01015		
10/18/2022	0.0513						<0.01015	
10/19/2022								<0.01015
5/16/2023					<0.01015	<0.01015		
5/17/2023	0.0497		<0.01015					
5/22/2023		<0.01015						
5/30/2023				<0.01015			<0.01015	<0.01015
10/23/2023	0.0426	<0.01015						
10/24/2023			<0.01015					<0.01015
10/25/2023				<0.01015	<0.01015	<0.01015		
11/1/2023							<0.01015	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<0.01015				
4/12/2016				<0.01015				
6/1/2016				<0.01015				
8/15/2016				<0.01015				
8/16/2016			<0.01015		<0.01015	0.00201 (J)	<0.01015	<0.01015
8/17/2016	<0.01015	<0.01015						
9/19/2016						<0.01015	<0.01015	<0.01015
9/20/2016	<0.01015	<0.01015	<0.01015		<0.01015			
10/11/2016			<0.01015	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015
10/12/2016	<0.01015	<0.01015						
11/14/2016						<0.01015	<0.01015	<0.01015
11/15/2016	<0.01015	<0.01015	0.00308 (J)		<0.01015			
1/3/2017						<0.01015	<0.01015	<0.01015
1/4/2017	<0.01015	<0.01015	<0.01015		<0.01015			
1/23/2017	<0.01015				<0.01015			
1/24/2017		<0.01015		<0.01015		<0.01015	<0.01015	
1/25/2017								<0.01015
1/26/2017			<0.01015					
5/9/2017	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015			
5/10/2017						<0.01015	<0.01015	<0.01015
6/27/2017	<0.01015	<0.01015	<0.01015		<0.01015	<0.01015	<0.01015	<0.01015
6/28/2017				<0.01015				
2/27/2018	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015
6/4/2018				<0.01015				
6/5/2018	<0.01015	<0.01015	<0.01015		<0.01015	<0.01015	<0.01015	<0.01015
11/5/2018							<0.01015	
11/6/2018	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015		<0.01015
3/26/2019	<0.01015	<0.01015	<0.01015		<0.01015			
3/27/2019				<0.01015		<0.01015	<0.01015	<0.01015
9/9/2019				<0.01015				
9/11/2019	<0.01015	<0.01015	<0.01015		<0.01015	<0.01015	<0.01015	<0.01015
4/20/2020				<0.01015				
4/21/2020	<0.01015	<0.01015	<0.01015		<0.01015			
4/22/2020						<0.01015	<0.01015	<0.01015
8/11/2020						<0.01015		
8/12/2020							<0.01015	<0.01015
8/17/2020				<0.01015				
8/18/2020	<0.01015	<0.01015	<0.01015		<0.01015			
3/15/2021	<0.01015	<0.01015	<0.01015		<0.01015	7.41E-05 (J)	<0.01015	<0.01015
3/16/2021				<0.01015				
8/17/2021				<0.01015				
8/18/2021	<0.01015	<0.01015	<0.01015		<0.01015			
8/23/2021						<0.01015	<0.01015	<0.01015
3/28/2022	<0.01015	<0.01015	<0.01015		<0.01015	<0.01015	<0.01015	<0.01015
4/5/2022				<0.01015				
10/5/2022				<0.01015		<0.01015	<0.01015	<0.01015
10/19/2022	<0.01015	<0.01015	<0.01015		<0.01015			
5/17/2023				<0.01015				
5/22/2023							<0.01015	<0.01015
5/23/2023						<0.01015		
5/30/2023	<0.01015	<0.01015	<0.01015		<0.01015			
10/24/2023	<0.01015	<0.01015	<0.01015	<0.01015	<0.01015			

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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10/30/2023	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
					<0.01015	<0.01015	<0.01015

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.00574 (J)			
1/15/2019				<0.01015		0.00419 (J)	<0.01015	<0.01015
1/16/2019		<0.01015						
1/17/2019	<0.01015							
1/30/2019			<0.01015					
9/10/2019	<0.01015						<0.01015	
9/11/2019		<0.01015	<0.01015		0.00203 (J)	0.00338 (J)		<0.01015
4/20/2020							<0.01015	
4/21/2020		<0.01015						
4/22/2020	<0.01015		<0.01015	<0.01015	<0.01015	0.00246 (J)		
4/29/2020								<0.01015
8/11/2020			<0.01015			0.00401 (J)		
8/12/2020	<0.01015						<0.01015	
8/18/2020		<0.01015						<0.01015
8/19/2020				<0.01015	<0.01015			
3/9/2021			0.000166 (J)			0.0047		
3/10/2021					0.000699		<0.01015	
3/15/2021	<0.01015							0.000131 (J)
3/16/2021		<0.01015		0.000373				
8/23/2021	<0.01015							
8/24/2021		<0.01015	9E-05 (J)	0.00037	0.00048	0.00376		
8/25/2021							<0.01015	0.0001 (J)
3/28/2022	<0.01015							
3/29/2022				0.00079				
3/30/2022			0.00017 (J)		0.00076		<0.01015	
4/6/2022		<0.01015				0.00174		0.00013 (J)
10/5/2022							<0.01015	
10/17/2022		<0.01015	0.000144 (J)	0.000164 (J)				
10/18/2022					0.00031	0.00284		0.000147 (J)
10/19/2022	<0.01015							
5/22/2023			<0.01015					
5/23/2023		<0.01015		<0.01015	<0.01015			
5/24/2023						<0.01015		
5/31/2023	<0.01015						<0.01015	<0.01015
10/23/2023					<0.01015			
10/24/2023		<0.01015					<0.01015	
10/25/2023			<0.01015	<0.01015				
10/31/2023						<0.01015		<0.01015
11/1/2023	<0.01015							

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.01015							
1/16/2019		<0.01015	<0.01015					
9/11/2019	<0.01015	<0.01015	<0.01015					
4/20/2020			<0.01015	0.0703				
4/21/2020	<0.01015	<0.01015					<0.01015	<0.01015
5/28/2020						<0.01015		
7/6/2020				0.0661				
8/11/2020				0.0443		<0.01015		
8/12/2020			<0.01015					
8/17/2020				0.0737			<0.01015	
8/19/2020	<0.01015	<0.01015						<0.01015
3/8/2021					0.0761	<0.01015		
3/9/2021	0.000315	0.0026						
3/10/2021			0.000171 (J)	0.0852			0.000144 (J)	0.000173 (J)
8/17/2021					0.0555	<0.01015		
8/18/2021	0.00015 (J)	0.00283		0.0752			7E-05 (J)	0.00022
8/23/2021			0.00018 (J)					
3/23/2022					0.0489	<0.01015		
3/29/2022				0.0652				
3/30/2022							<0.01015	0.00019 (J)
4/4/2022			<0.01015					
4/6/2022	0.00023	0.00264						
10/4/2022					0.0442	<0.01015		
10/5/2022			0.000228					
10/18/2022				0.066			<0.01015	
10/19/2022	0.000531	0.00283						0.000541
5/16/2023			<0.01015					
5/17/2023					0.0651			
5/22/2023				0.0593		<0.01015		
5/24/2023		<0.01015						
5/30/2023	<0.01015						<0.01015	<0.01015
10/18/2023					0.0562			
10/24/2023						<0.01015		
10/25/2023	<0.01015	<0.01015					<0.01015	<0.01015
10/31/2023			<0.01015	0.0608				

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot

Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.00347 (J)							
4/12/2016	0.00297 (J)							
5/31/2016	0.00261 (J)							
8/17/2016	0.0033 (J)							
10/11/2016	0.0041 (J)							
1/24/2017	0.00336 (J)							
5/9/2017	0.0031 (J)							
6/28/2017	0.00356 (J)							
2/27/2018	0.0042 (J)							
6/5/2018	0.00293 (J)							
11/6/2018	0.00318 (J)							
3/27/2019	0.00284 (J)							
9/11/2019	0.00328 (J)							
4/20/2020				<0.01015	0.00223 (J)		<0.01015	
4/21/2020	0.00255 (J)							
5/28/2020		<0.01015				<0.01015		<0.01015
7/6/2020			<0.01015					
8/11/2020		<0.01015	<0.01015	<0.01015		<0.01015		<0.01015
8/12/2020	0.00292 (J)				0.00278 (J)		<0.01015	
3/8/2021		<0.01015	<0.01015					
3/9/2021						<0.01015		0.000127 (J)
3/10/2021				0.00131	0.00289		0.000369	
3/16/2021	0.00358							
8/16/2021			<0.01015					
8/17/2021		9E-05 (J)				<0.01015		0.00018 (J)
8/23/2021	0.0031			0.00142	0.00312		0.00089	
3/23/2022		<0.01015	<0.01015			<0.01015		0.00012 (J)
4/4/2022	0.00354							
4/5/2022					0.00291		0.0004	
4/6/2022				0.00082				
10/3/2022			<0.01015					
10/4/2022		<0.01015				<0.01015		0.000225
10/5/2022					0.00277		0.000757	
10/17/2022	0.00287			0.00197				
5/15/2023			<0.01015					
5/17/2023	<0.01015							
5/23/2023		<0.01015			<0.01015	<0.01015	<0.01015	<0.01015
5/30/2023				<0.01015				
10/18/2023			<0.01015					
10/24/2023	<0.01015	<0.01015				<0.01015		<0.01015
10/31/2023				<0.01015	<0.01015		<0.01015	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

Date	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.01015
2/17/2016	<0.01015						<0.01015	
4/12/2016	<0.01015							
4/13/2016							<0.01015	<0.01015
5/31/2016	<0.01015						<0.01015	
6/1/2016								<0.01015
8/17/2016	<0.01015						<0.01015	<0.01015
10/11/2016	<0.01015							
10/12/2016							<0.01015	<0.01015
1/24/2017	<0.01015							
1/25/2017							<0.01015	<0.01015
5/10/2017	<0.01015						<0.01015	<0.01015
6/28/2017	<0.01015						<0.01015	<0.01015
2/27/2018	<0.01015						<0.01015	<0.01015
6/5/2018	<0.01015						<0.01015	<0.01015
11/7/2018	<0.01015						<0.01015	<0.01015
3/26/2019	<0.01015						<0.01015	<0.01015
9/10/2019	<0.01015						<0.01015	<0.01015
4/21/2020	<0.01015						<0.01015	<0.01015
8/19/2020	<0.01015						<0.01015	<0.01015
3/9/2021	0.0024						0.000156 (J)	8.12E-05 (J)
8/17/2021		<0.01015	0.00151	0.00055	7E-05 (J)	0.0676		
8/24/2021	0.00211						0.00013 (J)	<0.01015
3/23/2022		<0.01015	0.00052	0.00013 (J)	<0.01015	0.0639		
3/29/2022	0.00142						0.00016 (J)	<0.01015
10/4/2022		<0.01015	0.000323	0.000145 (J)	<0.01015	0.0686		
10/18/2022	0.00149						0.00012 (J)	<0.01015
5/17/2023						0.072		
5/22/2023				<0.01015	<0.01015			
5/23/2023		<0.01015	<0.01015					
5/30/2023	<0.01015						<0.01015	<0.01015
10/18/2023						0.0717		
10/23/2023				<0.01015	<0.01015			
10/24/2023		<0.01015	<0.01015					
10/25/2023	<0.01015						<0.01015	<0.01015



# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.01015	
4/13/2016	<0.01015	
6/1/2016	<0.01015	
8/17/2016	<0.01015	
10/12/2016	<0.01015	
1/25/2017	<0.01015	
5/10/2017	<0.01015	
6/28/2017	<0.01015	
2/27/2018	<0.01015	
6/5/2018	<0.01015	
11/7/2018	<0.01015	
3/26/2019	<0.01015	
9/10/2019	<0.01015	<0.01015
4/20/2020		<0.01015
4/21/2020	<0.01015	
8/17/2020		<0.01015
8/18/2020	<0.01015	
3/9/2021	<0.01015	
3/10/2021		<0.01015
8/17/2021		<0.01015
8/24/2021	<0.01015	
3/29/2022	<0.01015	
4/5/2022		<0.01015
10/5/2022		<0.01015
10/18/2022	<0.01015	
5/17/2023		<0.01015
5/30/2023	<0.01015	
10/24/2023		<0.01015
10/25/2023	<0.01015	

# Time Series

Constituent: pH (SU) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot

Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		6.29		6.84	6.4	6.21		
2/17/2016	5.8		6.04				6.02	6.18
4/12/2016					6.41	6.37	6.17	
4/13/2016	5.85	6.21	6.07	7.03				6.28
5/31/2016		6.45	6.03	6.94	6.22	6.42	6.15	
6/1/2016	5.92							6.36
8/15/2016	5.99							6.37
8/16/2016		6.58	6.09	6.84	6.41		6.21	
8/17/2016						6.42		
10/11/2016	6.02						6.14	
10/12/2016		6.6	6.06	6.75	6.42	6.38		6.32
11/1/2016					6.55	6.33	6.15	
11/2/2016								6.33
1/24/2017	5.92						6.11	6.29
1/25/2017		6.47	5.94	6.87	6.76	6.37		
3/14/2017	5.96		6.08			6.3	6.09	6.27
3/15/2017		6.54		6.9	6.82			
5/9/2017	5.93		6.07	6.85	6.7	6.43		
5/10/2017		6.53					6.11	6.3
6/27/2017	5.86						6.09	6.28
6/28/2017		6.49	6.02	6.85	6.58	6.4		
8/29/2017		6.49	6.19	6.86	6.4	6.32		
8/30/2017	5.88						6.1	6.34
2/27/2018	5.92	6.59	6.21			6.28		
2/28/2018				6.94	6.72		6.11	6.33
6/4/2018	5.89							
6/5/2018		6.52	6.27				6.05	6.29
6/6/2018				6.99	6.57	6.25		
9/10/2018	5.89		6.33					
9/11/2018		6.53		6.87	6.64		6.18	
9/12/2018						6.42		6.36
11/5/2018			6.26	6.81	6.69			
11/6/2018	5.95						6.09	6.37
11/7/2018		6.51				6.42		
3/26/2019				6.95	6.54		6.1	6.34
3/27/2019	5.8	6.53	6.37			6.41		
9/10/2019	5.88	6.33	5.91	6.69		6.11	5.82	6.35
9/11/2019					6.22			
4/20/2020					6.68		6.16	6.43
4/21/2020	5.72			6.96		6.31		
4/22/2020		6.44	6.26					
8/11/2020						6.02		6.7
8/12/2020							6.1	
8/17/2020	5.54							
8/18/2020		6.33	6	6.98	6.76			
3/9/2021						6.48		6.29
3/10/2021			5.97	6.89			6.08	
3/15/2021		6.29			6			
3/16/2021	5.67							
8/17/2021	5.49							6.33
8/24/2021		6.04						
8/25/2021			6.38	7.04	6.66	6.21	6.12	

# Time Series

Constituent: pH (SU) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
3/29/2022				6.44			5.81	
3/30/2022			6.02					
4/4/2022	5.17 (D)	6.21 (D)				6.39 (D)		
4/6/2022					6.24			6.42 (D)
10/5/2022	5.59							
10/17/2022			6.28	6.88	6.22			
10/18/2022		6.62				6.46	6.29	6.53
5/16/2023	5.45							
5/17/2023			6.21					
5/23/2023							6.25	
5/24/2023		6.59				6.4		
5/30/2023				6.87				
5/31/2023					6.37			6.52
10/24/2023	5.66						6.29	
10/25/2023			6.36	6.77	6.47			6.53
11/1/2023		6.91				6.8		





# Time Series

Constituent: pH (SU) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot

Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				6.29				
4/12/2016				6.33				
6/1/2016				6.4				
8/15/2016				6.36				
8/16/2016			6.21		5.39	7.13	6	6.34
8/17/2016	5.47	6.15						
9/19/2016						6.94	6	6.11
9/20/2016	5.22	4.99	6.05		5.37			
10/11/2016			6.2	6.38	5.39	6.82	6.02	5.99
10/12/2016	5.1	4.88						
10/31/2016		4.87	6.61		5.36			
11/1/2016						6.71	5.97	5.84
11/14/2016						6.57	5.98	5.83
11/15/2016	5.07	4.81	6.64		5.33			
11/28/2016						6.57	6	5.79
11/29/2016	5.1	4.84	6.39		5.33			
1/3/2017						6.56	6.03	5.39
1/4/2017	5.3	4.88	6.06		5.49			
1/23/2017	5.12				5.48			
1/24/2017		5.4		6.34		6.41	5.9	
1/25/2017								5.09
1/26/2017			6.02					
3/13/2017			5.68					
3/14/2017	4.74	5.13		6.42	5.17	6.37	6.07	4.99
5/9/2017	4.83	4.96	5.05	6.35	5.11			
5/10/2017						6.41	6	4.63
5/31/2017							6.02	
6/27/2017	4.87	5.34	4.9		5.29	6.14	6.05	4.76
6/28/2017				6.32				
8/29/2017	4.71							
8/30/2017		4.69	4.73	6.32	5.09	6.08	6.13	4.85
2/27/2018	4.96	4.91	4.87	6.39	5.25	5.99	6.1	4.69
6/4/2018				6.4				
6/5/2018	5	4.87	4.89		5.12	5.93	6.05	4.62
9/11/2018	4.94	4.65	4.88		5.19	5.86	6.07	4.79
9/12/2018				6.35				
11/5/2018							6.01	
11/6/2018	4.9	4.67	4.86	6.34	5.12	5.89		4.62
3/26/2019	4.96	4.92	4.97		5.16			
3/27/2019				6.44		5.95	6.15	4.68
9/9/2019				6.22				
9/11/2019	4.85	4.33	3.96		4.11	5.85	5.87	4.57
4/20/2020				6.4				
4/21/2020	4.29	4.07	3.9		4.44			
4/22/2020						5.75	5.92	4.71
8/11/2020						5.63		
8/12/2020							5.84	4.65
8/17/2020				5.85				
8/18/2020	4.75	4.59	4.22		4.76			
3/15/2021	4.73	4.45	4.79		5.02	5.61	4.57	5.83
3/16/2021				6.23				
8/17/2021				6.13				

# Time Series

Constituent: pH (SU) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
8/18/2021	4.52	3.78	3.94	4.01			
8/23/2021					5.67	4.17	6.04
3/28/2022	4.73	4.69	4.67	4.93	5.05	5.01	4.29
4/5/2022				6.27 (D)			
10/5/2022				5.89	5.49	5.84	4.55
10/19/2022	5.02	4.87	5.01	5.29			
5/17/2023				5.94			
5/22/2023						5.98	4.58
5/23/2023					5.67		
5/30/2023	4.65	5.04	4.82	5.15			
10/24/2023	4.95	4.81	4.99	6.22	5.25		
10/30/2023					5.72	5.92	4.63

# Time Series

Constituent: pH (SU) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot

Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					6.56			
1/15/2019				5.88		6.4	5.7	6.71
1/16/2019		5.99						
1/17/2019	5.65							
1/30/2019			7.87					
9/10/2019	4.87						5.61	
9/11/2019		5.6	7.2		6.55	6.17		5.96
4/20/2020							5.63	
4/21/2020		6.54						
4/22/2020	5.45		7.72	6.23	6.66	6.42		
4/29/2020								6.37
8/11/2020			7.69			6.7		
8/12/2020	4.78						5.83	
8/18/2020		6.03						5.93
8/19/2020				5.95	6.57			
3/9/2021			7.79			6.47		
3/10/2021					6.67		5.99	
3/15/2021	5.32							6.43
3/16/2021		6.16		6.32				
8/23/2021	5.54							
8/24/2021		6.08	7.06	6.12	5.84	6.13		
8/25/2021							5.91	6.13
3/28/2022	4.44							
3/29/2022				6.36				
3/30/2022			7.81		6.62		5.69	
4/6/2022		5.24				6.31 (D)		6.16
10/5/2022							5.77	
10/17/2022		6.19	7.92	6.23				
10/18/2022					6.7	6.59		6.39
10/19/2022	5.42							
5/22/2023			7.61					
5/23/2023		6.26		6.26	6.59			
5/24/2023						6.47		
5/31/2023	5.63						6.01	6.19
10/23/2023					6.63			
10/24/2023		5.74					5.78	
10/25/2023			7.98	6.35				
10/31/2023						6.56		6.48
11/1/2023	5.96							



# Time Series

Constituent: pH (SU) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot

Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	6.29							
1/16/2019		6.48	6.39					
9/11/2019	6.2	6.52	6.11					
4/20/2020			6.11	7.14				
4/21/2020	6.01	6.18					6.5	6.28
5/28/2020						6.99		
7/6/2020					6.69			
8/11/2020					6.38	6.25		
8/12/2020			6.27					
8/17/2020				6.94			6.24	
8/19/2020	6.27	6.18						6.14
3/8/2021					6.86	5.74		
3/9/2021	6.29	6.47						
3/10/2021			6.14	6.83			6.35	6.14
8/17/2021					6.7	5.98		
8/18/2021	6.16	6.46		6.84			5.96	6.05
8/23/2021			6.07					
3/23/2022					6.55	5.3		
3/29/2022				6.83				
3/30/2022							5.4	5.72
4/4/2022			5.56 (D)					
4/6/2022	6.1 (D)	6.43 (D)						
10/4/2022					6.27	5.87		
10/5/2022			6.06					
10/18/2022				6.38			5.14	
10/19/2022	6.27	6.53						5.6
5/16/2023			6.14					
5/17/2023					6.7			
5/22/2023				6.65		5.53		
5/24/2023		6.38						
5/30/2023	6.2						5.45	5.6
10/18/2023					6.72			
10/24/2023						5.85		
10/25/2023	6.35	6.41					5.76	5.6
10/31/2023			6.2	6.83				

# Time Series

Constituent: pH (SU) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot

Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	6.63							
4/12/2016	6.59							
5/31/2016	6.57							
8/17/2016	6.72							
10/11/2016	6.69							
1/24/2017	6.61							
3/14/2017	6.55							
5/9/2017	6.65							
6/28/2017	6.66							
8/30/2017	6.66							
2/27/2018	6.73							
6/5/2018	6.63							
9/11/2018	6.65							
11/6/2018	6.65							
3/27/2019	6.59							
9/11/2019	6.36							
4/20/2020				6.17	6.58		6.12	
4/21/2020	6.5							
5/28/2020		6.42				4.47		5.99
7/6/2020			6.07					
8/11/2020		6.24	6.08	5.8		5.1		6.16
8/12/2020	6.36				6.67		6.48	
3/8/2021		6.36	5.98					
3/9/2021						5.13		5.94
3/10/2021				6.58	6.87		5.96	
3/16/2021	6.64							
8/16/2021			5.98					
8/17/2021		6.07				4.89		5.85
8/23/2021	6.5			6.33	6.67		6.34	
3/23/2022		6.17	6.14			5.2		5.88
4/4/2022	6.42 (D)							
4/5/2022					6.59 (D)		5.41 (D)	
4/6/2022				6.23 (D)				
10/3/2022			5.84					
10/4/2022		6.27				5.03		6.06
10/5/2022					6.41		5.99	
10/17/2022	6.71			6.43				
5/15/2023			6.15					
5/17/2023	6.64							
5/23/2023		6.24			6.92	5.05	6	5.78
5/30/2023				6.66				
10/18/2023			6.16					
10/24/2023	6.61	6.05				5.08		6.01
10/31/2023				6.61	6.8		6.46	

# Time Series

Constituent: pH (SU) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot

Plant Greene County Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								6.16
2/17/2016	6.46						6.45	
4/12/2016	6.45							
4/13/2016							6.49	6.29
5/31/2016	6.51						6.43	
6/1/2016								6.33
8/17/2016	6.54						6.43	6.27
10/11/2016	6.53							
10/12/2016							6.46	6.3
1/24/2017	6.44							
1/25/2017							6.43	6.27
3/14/2017	6.4						6.41	
3/15/2017								6.27
5/10/2017	6.4						6.41	6.25
6/28/2017	6.46						6.46	6.25
8/29/2017	6.47						6.46	6.32
2/27/2018	6.53						6.45	6.36
6/5/2018	6.49						6.36	6.3
9/11/2018	6.48						6.38	6.36
11/7/2018	6.48						6.37	6.31
3/26/2019	6.54						6.39	6.32
9/10/2019	6.55						6.39	6.31
4/21/2020	6.54						6.39	6.06
8/19/2020	6.49						6.14	6.06
3/9/2021	6.43						6.45	6.31
8/17/2021		5.15	6.84	6.33	5.58	7.03		
8/24/2021	6.22						6.4	6.16
3/23/2022		5.22	6.38	5.82	5.34	6.92		
3/29/2022	5.99						6.62	6.21
10/4/2022		4.83	5.51	5.82	5.38	6.87		
10/18/2022	6.38						6.37	6.45
5/17/2023						6.86		
5/22/2023				5.81	5.05			
5/23/2023		5.26	5.99					
5/30/2023	6.5						6.42	6.62
10/18/2023						7		
10/23/2023				5.72	5.47			
10/24/2023		5.14	5.98					
10/25/2023	6.41						6.57	6.47

# Time Series

Constituent: pH (SU) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot

Plant Greene County Data: Greene County AP

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	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	6.5	
4/13/2016	6.32	
6/1/2016	6.43	
8/17/2016	6.46	
10/12/2016	6.53	
1/25/2017	6.45	
3/15/2017	6.39	
5/10/2017	6.39	
6/28/2017	6.4	
8/29/2017	6.47	
2/27/2018	6.54	
6/5/2018	6.47	
9/11/2018	6.53	
9/12/2018		6.13
11/7/2018	6.49	
3/26/2019	6.47	
9/10/2019	6.43	5.79
4/20/2020		5.99
4/21/2020	6.25	
8/17/2020		5.94
8/18/2020	6.21	
3/9/2021	6.14	
3/10/2021		6.04
8/17/2021		5.64
8/24/2021	6.08	
3/29/2022	5.61	
4/5/2022		5.95 (D)
10/5/2022		5.42
10/18/2022	6.27	
5/17/2023		5.34
5/30/2023	6.38	
10/24/2023		5.44
10/25/2023	6.22	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.001015		<0.001015	0.0227	<0.001015		
2/17/2016	0.00277 (J)		<0.001015				<0.001015	<0.001015
4/12/2016					0.0701	<0.001015	<0.001015	
4/13/2016	<0.001015	<0.001015	<0.001015	<0.001015				<0.001015
5/31/2016		<0.001015	<0.001015	<0.001015	0.0129	<0.001015	<0.001015	
6/1/2016	<0.001015							<0.001015
8/15/2016	<0.001015							<0.001015
8/16/2016		<0.001015	<0.001015	<0.001015	0.0208		<0.001015	
8/17/2016						<0.001015		
10/11/2016	<0.001015						<0.001015	
10/12/2016		<0.001015	<0.001015	<0.001015	0.00431 (J)	<0.001015		<0.001015
1/24/2017	<0.001015						<0.001015	<0.001015
1/25/2017		<0.001015	<0.001015	<0.001015	0.00779 (J)	<0.001015		
5/9/2017	<0.001015		<0.001015	<0.001015	0.00905 (J)	<0.001015		
5/10/2017		<0.001015					<0.001015	<0.001015
6/27/2017	0.00206 (J)						<0.001015	<0.001015
6/28/2017		<0.001015	<0.001015	<0.001015	0.0072 (J)	<0.001015		
2/27/2018	0.00206 (J)	<0.001015	<0.001015			<0.001015		
2/28/2018				<0.001015	0.00826 (J)		<0.001015	<0.001015
6/4/2018	<0.001015							
6/5/2018		<0.001015	<0.001015				<0.001015	<0.001015
6/6/2018				<0.001015	0.00496 (J)	<0.001015		
11/5/2018			<0.001015	<0.001015	<0.001015			
11/6/2018	<0.001015						<0.001015	<0.001015
11/7/2018		<0.001015				<0.001015		
3/26/2019				<0.001015	0.0239		<0.001015	<0.001015
3/27/2019	<0.001015	<0.001015	<0.001015			<0.001015		
9/10/2019	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015
9/11/2019					<0.001015			
4/20/2020					0.0125		<0.001015	<0.001015
4/21/2020	<0.001015			<0.001015		<0.001015		
4/22/2020		<0.001015	<0.001015					
8/11/2020						<0.001015		<0.001015
8/12/2020							<0.001015	
8/17/2020	<0.001015							
8/18/2020		<0.001015	<0.001015	<0.001015	0.00416 (J)			
3/9/2021						<0.001015		<0.001015
3/10/2021			<0.001015	<0.001015			<0.001015	
3/15/2021		<0.001015			0.0175			
3/16/2021	0.00163							
8/17/2021	0.00209							<0.001015
8/24/2021		<0.001015						
8/25/2021			<0.001015	0.00281	0.00826	<0.001015	<0.001015	
3/29/2022				<0.001015			<0.001015	
3/30/2022			<0.001015					
4/4/2022	0.00221	<0.001015				<0.001015		
4/6/2022					0.111 (o)			<0.001015
5/17/2022					0.0452 (R)			
10/5/2022	0.000737 (J)							
10/17/2022			<0.001015	0.00081 (J)	0.0103			
10/18/2022		<0.001015				<0.001015	<0.001015	<0.001015
5/16/2023	0.000809 (J)							

# Time Series

Constituent: Selenium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/17/2023			<0.001015					
5/23/2023							<0.001015	
5/24/2023		<0.001015				<0.001015		
5/30/2023				0.00122				
5/31/2023					0.0195			<0.001015
10/24/2023	0.000734 (J)						<0.001015	
10/25/2023			<0.001015	0.00203	0.00397			<0.001015
11/1/2023		<0.001015				<0.001015		

# Time Series

Constituent: Selenium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.001015				
2/17/2016	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	
4/12/2016		<0.001015			0.00205 (J)	<0.001015	<0.001015	
4/13/2016	<0.001015		<0.001015	<0.001015				
6/1/2016	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
8/15/2016	<0.001015	<0.001015	<0.001015					
8/16/2016				<0.001015	<0.001015	<0.001015		
8/17/2016							<0.001015	<0.001015
9/20/2016								<0.001015
10/11/2016			<0.001015		<0.001015	<0.001015	<0.001015	
10/12/2016	<0.001015	<0.001015		<0.001015				<0.001015
11/15/2016								<0.001015
1/4/2017								<0.001015
1/23/2017								0.00247 (J)
1/24/2017	<0.001015	<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	
1/25/2017				<0.001015				
5/9/2017			<0.001015	<0.001015	<0.001015		<0.001015	0.0072 (J)
5/10/2017	<0.001015	<0.001015				<0.001015		
6/27/2017	<0.001015	<0.001015			<0.001015			0.00443 (J)
6/28/2017			<0.001015	<0.001015		0.00268 (J)	<0.001015	
2/27/2018			<0.001015		<0.001015	0.00281 (J)		<0.001015
2/28/2018	<0.001015	<0.001015		<0.001015			<0.001015	
6/4/2018			<0.001015					
6/5/2018	<0.001015	<0.001015			<0.001015	0.00294 (J)		<0.001015
6/6/2018				<0.001015			<0.001015	
11/5/2018				<0.001015				
11/6/2018	<0.001015	<0.001015	<0.001015				<0.001015	<0.001015
11/7/2018					<0.001015	<0.001015		
3/26/2019	<0.001015	<0.001015		<0.001015	<0.001015	0.00208 (J)		<0.001015
3/27/2019			<0.001015				<0.001015	
9/9/2019	<0.001015	<0.001015	<0.001015					
9/10/2019				<0.001015	<0.001015	<0.001015	<0.001015	
9/11/2019								<0.001015
4/21/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015			<0.001015
4/22/2020						<0.001015	<0.001015	
8/11/2020	<0.001015						<0.001015	
8/12/2020		<0.001015			<0.001015	<0.001015		
8/17/2020			<0.001015					
8/18/2020				<0.001015				<0.001015
3/9/2021	<0.001015	<0.001015						
3/10/2021				<0.001015	0.00117	0.00139	<0.001015	
3/15/2021								<0.001015
3/16/2021			<0.001015					
8/17/2021	<0.001015	<0.001015	0.00054 (J)					
8/18/2021								<0.001015
8/24/2021					0.00113	0.00093 (J)	<0.001015	
8/25/2021				<0.001015				
3/28/2022			0.00058 (J)		0.00099 (J)			
3/29/2022							<0.001015	
3/30/2022				<0.001015				
4/4/2022	<0.001015					0.00093 (J)		<0.001015
4/6/2022		<0.001015						

# Time Series

Constituent: Selenium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			<0.001015					
10/17/2022		<0.001015		<0.001015	0.000864 (J)	0.000816 (J)		
10/18/2022	<0.001015						<0.001015	
10/19/2022								<0.001015
5/16/2023					0.00102	0.000692 (J)		
5/17/2023	<0.001015		<0.001015					
5/22/2023		<0.001015						
5/30/2023				<0.001015			<0.001015	<0.001015
10/23/2023	<0.001015	<0.001015						
10/24/2023			<0.001015					<0.001015
10/25/2023				<0.001015	0.000992 (J)	0.00053 (J)		
11/1/2023							<0.001015	



# Time Series

Constituent: Selenium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot

Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016			<0.001015				
4/12/2016			<0.001015				
6/1/2016			<0.001015				
8/15/2016			<0.001015				
8/16/2016		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
8/17/2016	<0.001015	<0.001015					
9/19/2016					<0.001015	<0.001015	<0.001015
9/20/2016	<0.001015	<0.001015	<0.001015	<0.001015			
10/11/2016			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/12/2016	<0.001015	<0.001015					
11/14/2016					<0.001015	<0.001015	<0.001015
11/15/2016	<0.001015	<0.001015	<0.001015	<0.001015			
1/3/2017					<0.001015	<0.001015	<0.001015
1/4/2017	<0.001015	<0.001015	<0.001015	<0.001015			
1/23/2017	<0.001015			<0.001015			
1/24/2017		<0.001015	<0.001015		<0.001015	<0.001015	
1/25/2017							<0.001015
1/26/2017			<0.001015				
5/9/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
5/10/2017					<0.001015	<0.001015	<0.001015
6/27/2017	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/28/2017				<0.001015			
2/27/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
6/4/2018				<0.001015			
6/5/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
11/5/2018						<0.001015	
11/6/2018	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
3/26/2019	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
3/27/2019				<0.001015	<0.001015	<0.001015	<0.001015
9/9/2019				<0.001015			
9/11/2019	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
4/20/2020				<0.001015			
4/21/2020	<0.001015	<0.001015	<0.001015	<0.001015			
4/22/2020					<0.001015	<0.001015	<0.001015
8/11/2020					<0.001015		
8/12/2020						<0.001015	<0.001015
8/17/2020				<0.001015			
8/18/2020	<0.001015	<0.001015	<0.001015	<0.001015			
3/15/2021	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
3/16/2021				0.000959 (J)			
8/17/2021				0.00097 (J)			
8/18/2021	<0.001015	<0.001015	<0.001015	<0.001015			
8/23/2021					<0.001015	0.00059 (J)	<0.001015
3/28/2022	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	0.00071 (J)
4/5/2022				0.00074 (J)			
10/5/2022				0.000612 (J)	<0.001015	<0.001015	<0.001015
10/19/2022	<0.001015	<0.001015	<0.001015	<0.001015			
5/17/2023				0.000551 (J)			
5/22/2023						<0.001015	0.000941 (J)
5/23/2023					<0.001015		
5/30/2023	<0.001015	<0.001015	<0.001015	<0.001015			
10/24/2023	<0.001015	<0.001015	<0.001015	0.000538 (J)	<0.001015		

# Time Series

Constituent: Selenium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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10/30/2023	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
					<0.001015	<0.001015	0.000704 (J)

# Time Series

Constituent: Selenium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					0.018			
1/15/2019				<0.001015		<0.001015	<0.001015	<0.001015
1/16/2019		0.00367 (J)						
1/17/2019	<0.001015							
1/30/2019			<0.001015					
9/10/2019	<0.001015						<0.001015	
9/11/2019		0.00404 (J)	<0.001015		0.0155	<0.001015		<0.001015
4/20/2020							<0.001015	
4/21/2020		0.00451 (J)						
4/22/2020	<0.001015		<0.001015	<0.001015	0.0111	<0.001015		
4/29/2020								<0.001015
8/11/2020			<0.001015			<0.001015		
8/12/2020	<0.001015						<0.001015	
8/18/2020		0.00268 (J)						<0.001015
8/19/2020				<0.001015	0.0108			
3/9/2021			<0.001015			<0.001015		
3/10/2021					0.0124		<0.001015	
3/15/2021	0.000704 (J)							<0.001015
3/16/2021		0.00362		<0.001015				
8/23/2021	<0.001015							
8/24/2021		0.00237	<0.001015	<0.001015	0.0148	<0.001015		
8/25/2021							<0.001015	<0.001015
3/28/2022	0.0006 (J)							
3/29/2022				<0.001015				
3/30/2022			<0.001015		0.00902		<0.001015	
4/6/2022		0.00364				<0.001015		<0.001015
10/5/2022							<0.001015	
10/17/2022		0.00352	<0.001015	<0.001015				
10/18/2022					0.0197	<0.001015		<0.001015
10/19/2022	0.000622 (J)							
5/22/2023			<0.001015					
5/23/2023		0.00285		<0.001015	0.0163			
5/24/2023						<0.001015		
5/31/2023	<0.001015						<0.001015	<0.001015
10/23/2023					0.0104			
10/24/2023		0.00326					<0.001015	
10/25/2023			<0.001015	<0.001015				
10/31/2023						<0.001015		<0.001015
11/1/2023	<0.001015							

# Time Series

Constituent: Selenium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.001015							
1/16/2019		<0.001015	<0.001015					
9/11/2019	<0.001015	<0.001015	<0.001015					
4/20/2020			<0.001015	<0.001015				
4/21/2020	<0.001015	<0.001015					<0.001015	<0.001015
5/28/2020						<0.001015		
7/6/2020					<0.001015			
8/11/2020					<0.001015	<0.001015		
8/12/2020			<0.001015					
8/17/2020				<0.001015			<0.001015	
8/19/2020	<0.001015	<0.001015						<0.001015
3/8/2021					<0.001015	<0.001015		
3/9/2021	<0.001015	<0.001015						
3/10/2021			<0.001015	<0.001015			<0.001015	<0.001015
8/17/2021					<0.001015	<0.001015		
8/18/2021	<0.001015	<0.001015		<0.001015			<0.001015	<0.001015
8/23/2021			<0.001015					
3/23/2022					<0.001015	<0.001015		
3/29/2022				<0.001015				
3/30/2022							<0.001015	<0.001015
4/4/2022			<0.001015					
4/6/2022	<0.001015	<0.001015						
10/4/2022					<0.001015	<0.001015		
10/5/2022			<0.001015					
10/18/2022				<0.001015			<0.001015	
10/19/2022	<0.001015	<0.001015						<0.001015
5/16/2023			<0.001015					
5/17/2023					<0.001015			
5/22/2023				<0.001015		<0.001015		
5/24/2023		<0.001015						
5/30/2023	<0.001015						<0.001015	<0.001015
10/18/2023					<0.001015			
10/24/2023						<0.001015		
10/25/2023	<0.001015	<0.001015					<0.001015	<0.001015
10/31/2023			<0.001015	<0.001015				

# Time Series

Constituent: Selenium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot

Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<0.001015							
4/12/2016	<0.001015							
5/31/2016	<0.001015							
8/17/2016	<0.001015							
10/11/2016	<0.001015							
1/24/2017	<0.001015							
5/9/2017	<0.001015							
6/28/2017	<0.001015							
2/27/2018	<0.001015							
6/5/2018	<0.001015							
11/6/2018	<0.001015							
3/27/2019	<0.001015							
9/11/2019	<0.001015							
4/20/2020				<0.001015	<0.001015		<0.001015	
4/21/2020	<0.001015							
5/28/2020		<0.001015				<0.001015		<0.001015
7/6/2020			<0.001015					
8/11/2020		<0.001015	<0.001015	<0.001015		<0.001015		<0.001015
8/12/2020	<0.001015				<0.001015		<0.001015	
3/8/2021		<0.001015	<0.001015					
3/9/2021						<0.001015		0.000652 (J)
3/10/2021				<0.001015	<0.001015		<0.001015	
3/16/2021	<0.001015							
8/16/2021			<0.001015					
8/17/2021		<0.001015				<0.001015		0.00051 (J)
8/23/2021	<0.001015			<0.001015	<0.001015		<0.001015	
3/23/2022		<0.001015	<0.001015			<0.001015		0.00097 (J)
4/4/2022	<0.001015							
4/5/2022					<0.001015		0.00059 (J)	
4/6/2022				<0.001015				
10/3/2022			<0.001015					
10/4/2022		<0.001015				<0.001015		<0.001015
10/5/2022					<0.001015		<0.001015	
10/17/2022	<0.001015			<0.001015				
5/15/2023			<0.001015					
5/17/2023	<0.001015							
5/23/2023		<0.001015			<0.001015	<0.001015	<0.001015	<0.001015
5/30/2023				<0.001015				
10/18/2023			<0.001015					
10/24/2023	<0.001015	<0.001015				<0.001015		<0.001015
10/31/2023				<0.001015	<0.001015		<0.001015	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

Date	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.001015
2/17/2016	<0.001015						<0.001015	
4/12/2016	<0.001015							
4/13/2016							<0.001015	<0.001015
5/31/2016	<0.001015						<0.001015	
6/1/2016								<0.001015
8/17/2016	<0.001015						<0.001015	<0.001015
10/11/2016	<0.001015							
10/12/2016							<0.001015	<0.001015
1/24/2017	<0.001015							
1/25/2017							<0.001015	<0.001015
5/10/2017	<0.001015						<0.001015	<0.001015
6/28/2017	<0.001015						<0.001015	<0.001015
2/27/2018	<0.001015						<0.001015	<0.001015
6/5/2018	<0.001015						<0.001015	<0.001015
11/7/2018	<0.001015						<0.001015	<0.001015
3/26/2019	<0.001015						<0.001015	<0.001015
9/10/2019	<0.001015						<0.001015	<0.001015
4/21/2020	<0.001015						<0.001015	<0.001015
8/19/2020	<0.001015						<0.001015	<0.001015
3/9/2021	<0.001015						<0.001015	<0.001015
8/17/2021		0.00115	0.00058 (J)	<0.001015	<0.001015	<0.001015		
8/24/2021	<0.001015						<0.001015	<0.001015
3/23/2022		0.00122	0.00071 (J)	<0.001015	<0.001015	<0.001015		
3/29/2022	<0.001015						<0.001015	<0.001015
10/4/2022		0.00118	0.000631 (J)	<0.001015	<0.001015	<0.001015		
10/18/2022	<0.001015						<0.001015	<0.001015
5/17/2023							<0.001015	
5/22/2023				<0.001015	<0.001015			
5/23/2023		0.00114	0.000605 (J)					
5/30/2023	<0.001015						<0.001015	<0.001015
10/18/2023							<0.001015	
10/23/2023				<0.001015	<0.001015			
10/24/2023		0.000926 (J)	0.000594 (J)					
10/25/2023	<0.001015						<0.001015	<0.001015

# Time Series

Constituent: Selenium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.001015	
4/13/2016	<0.001015	
6/1/2016	<0.001015	
8/17/2016	<0.001015	
10/12/2016	<0.001015	
1/25/2017	<0.001015	
5/10/2017	<0.001015	
6/28/2017	<0.001015	
2/27/2018	<0.001015	
6/5/2018	<0.001015	
11/7/2018	<0.001015	
3/26/2019	<0.001015	
9/10/2019	<0.001015	<0.001015
4/20/2020		0.00237 (J)
4/21/2020	<0.001015	
8/17/2020		<0.001015
8/18/2020	<0.001015	
3/9/2021	<0.001015	
3/10/2021		0.0013
8/17/2021		0.00321
8/24/2021	<0.001015	
3/29/2022	<0.001015	
4/5/2022		0.00192
10/5/2022		0.00692
10/18/2022	<0.001015	
5/17/2023		0.00189
5/30/2023	<0.001015	
10/24/2023		0.00198
10/25/2023	<0.001015	

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		9.03		119	113	108		
2/17/2016	785		40.2				187	87.4
4/12/2016					86.7	114	188	
4/13/2016	715	10.7	33.1	122				92.7
5/31/2016		10.2	28.1	94.3	83.1	114	183	
6/1/2016	832							111
8/15/2016	862							98.3
8/16/2016		9.1	38.5	67.1	59.3		196	
8/17/2016						85.4		
10/11/2016	888						216	
10/12/2016		7.24	38.3	94.1	99.3	53.5		99.3
1/24/2017	906						183	85.4
1/25/2017		9.71	32	101	113	75.4		
5/9/2017	810		44	91	74	84		
5/10/2017		11					160	74
6/27/2017	830						150	75
6/28/2017		10	88	71	71	120		
8/29/2017		14	110	80	72	180		
8/30/2017	910						160	87
6/4/2018	850							
6/5/2018		39	79				160	87
6/6/2018				62	48	450		
9/10/2018	920		80					
9/11/2018		29		63	62		140	
9/12/2018						200		63
11/5/2018			81	74	81			
11/6/2018	880						160	97
11/7/2018		45				180		
3/26/2019				92.3	92.4		157	123
3/27/2019	1090	66.2	83.2			335		
9/10/2019	992	50.5	87.2	89.3		193	150	68
9/11/2019					128			
4/20/2020					76.5		142	49.6
4/21/2020	874			121		168		
4/22/2020		63.2	58.7					
8/11/2020						242		55
8/12/2020							160	
8/17/2020	919							
8/18/2020		58.6	81.1	89	203			
3/9/2021						165		43.9
3/10/2021			73.2	155			136	
3/15/2021		68.5			204			
3/16/2021	933							
8/17/2021	745							46.6
8/24/2021		71.6						
8/25/2021			126	118	181	346	153	
3/29/2022				108			165	
3/30/2022			125					
4/4/2022	812.5 (D)	116.5 (D)				195.5 (D)		
4/6/2022					157			45.3 (D)
10/5/2022	737							
10/17/2022			144	96.199997	467			



# Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
10/18/2022		104				185	152	42.400002
5/16/2023	578							
5/17/2023			150					
5/23/2023							131	
5/24/2023		119				178		
5/30/2023				106				
5/31/2023					162			42.799999
10/24/2023	714						128	
10/25/2023			165	74.300003	64.800003			35.700001
11/1/2023		124				135		





# Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				<5				
4/12/2016				0.49 (J)				
6/1/2016				0.544 (J)				
8/15/2016				0.332 (J)				
8/16/2016			0.894 (J)		0.702 (J)	1.78	2.06	9.33
8/17/2016	0.928 (J)	6.46						
9/19/2016						2.06	1.44	11.2
9/20/2016	0.478 (J)	8.3	<1		<1			
10/11/2016			<1	<5	<1	2.33	1.38	12.6
10/12/2016	0.727 (J)	8.36						
11/14/2016						2.31	1.15	12.4
11/15/2016	0.448 (J)	8.75	1.19		<1			
1/3/2017						2.81	1.57	14.3
1/4/2017	0.627 (J)	7.85	<1		<1			
1/23/2017	1.34				0.493 (J)			
1/24/2017		6.62		<5		3.34	2.06	
1/25/2017								15.2
1/26/2017			0.6 (J)					
5/9/2017	<5	5.6	<1	2.1 (J)	<1			
5/10/2017						2.9 (J)	2.1 (J)	12
6/27/2017	<5	5.3	<1		<1	3.4 (J)	2.7 (J)	13
6/28/2017				<5				
8/29/2017	<5							
8/30/2017		8.2	<1	<5	<1	3.7 (J)	2.6 (J)	15
6/4/2018				1.4 (J)				
6/5/2018	2.1 (J)	8.3	1.4 (J)		<1	3.7 (J)	3.1 (J)	17
9/11/2018	<5	8.9	<1		<1	2.2 (J)	1.6 (J)	16
9/12/2018				<5				
11/5/2018							2.4 (J)	
11/6/2018	<5	8.6	<1	<5	<1	3.1 (J)		15
3/26/2019	1.66	10.1	0.594 (J)		<1			
3/27/2019				6.64		3.55	3.24	15.1
9/9/2019				6.56				
9/11/2019	1.29	10.6	<1		<1	3.83	2.66	14.5
4/20/2020				10.5				
4/21/2020	2.21	9.4	0.694 (J)		<1			
4/22/2020						3.78	2.51	9.64
8/11/2020						4.33		
8/12/2020							2.54	13.6
8/17/2020				17.3				
8/18/2020	1.57	10.3	0.608 (J)		<1			
3/15/2021	2.5	10.4	<1		<1	3.74	8.5	2.76
3/16/2021				7.62				
8/17/2021				12				
8/18/2021	3.18	10.1	0.86 (J)		0.754 (J)			
8/23/2021						4	9.18	2.44
3/28/2022	6.24	11.2	1.29 (J)		0.951 (J)	3.34	2.55	11.8
4/5/2022				14.95 (D)				
10/5/2022				5.11		4.08	2.71	12.2
10/19/2022	3.95	8.96	1.37 (J)		1.27 (J)			
5/17/2023				19.6				
5/22/2023						2.5		15.5

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
5/23/2023						3		
5/30/2023	5.96	10.1	1.11 (J)		1.44 (J)			
10/24/2023	6.24	9.11	1.19 (J)	18.700001	0.867 (J)			
10/30/2023						3.75	3.36	17.6

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					103			
1/15/2019				780		48.5	224	96
1/16/2019		34.9						
1/17/2019	47.9							
1/30/2019			11					
9/10/2019	27.1						291	
9/11/2019		30	11		60.5	44.1		79.1
4/20/2020							247	
4/21/2020		44.5						
4/22/2020	26.8		10.9	510	66.5	31.7		
4/29/2020								77.2
8/11/2020			8.73			51.7		
8/12/2020	13.5						285	
8/18/2020		28.8						76.6
8/19/2020				402	70			
3/9/2021			10.4			32.2		
3/10/2021					44.8		292	
3/15/2021	25.6							80.9
3/16/2021		32.4		368				
8/23/2021	24.8							
8/24/2021		22.9	9.79	383	68.2	34.1		
8/25/2021							330	147
3/28/2022	27							
3/29/2022				303				
3/30/2022			10.3		51.9		290	
4/6/2022		32.3				32.95 (D)		236
10/5/2022							264	
10/17/2022		25.6	9.18	306				
10/18/2022					40.599998	25		236
10/19/2022	22.6							
5/22/2023			10.9					
5/23/2023		25.200001		374	32.700001			
5/24/2023						26.200001		
5/31/2023	23.200001						251	292
10/23/2023					31			
10/24/2023		34.400002					234	
10/25/2023			13.7	400				
10/31/2023						22		295
11/1/2023	28.200001							

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	9.73							
1/16/2019		74	394					
9/11/2019	9.43	45.7	409					
4/20/2020			429	157				
4/21/2020	12.4	59.7					90.2	90.8
5/28/2020						81.5		
7/6/2020					83.4			
8/11/2020					54.5	49.3		
8/12/2020			415					
8/17/2020				128			78	
8/19/2020	55.7	71.8						70.7
3/8/2021					96.1	31.4		
3/9/2021	74.8	91.3						
3/10/2021			410	90.9			62	76.1
8/17/2021					115	52.1		
8/18/2021	83.6	107		395			47	51.4
8/23/2021			406					
3/23/2022					131	61.1		
3/29/2022				337				
3/30/2022							36.4	106
4/4/2022			390					
4/6/2022	95.1 (D)	105.5 (D)						
10/4/2022					82.199997	42.799999		
10/5/2022			376					
10/18/2022				219			36.200001	
10/19/2022	168	109						109
5/16/2023			308					
5/17/2023					93			
5/22/2023				247		34.700001		
5/24/2023		103						
5/30/2023	124						25	127
10/18/2023					87.400002			
10/24/2023						36.400002		
10/25/2023	146	73.699997					27.9	126
10/31/2023			297	309				

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	<1							
4/12/2016	0.483 (J)							
5/31/2016	0.518 (J)							
8/17/2016	3.63							
10/11/2016	15.6							
1/24/2017	28.9							
5/9/2017	25							
6/28/2017	45							
8/30/2017	96							
6/5/2018	36							
9/11/2018	48							
11/6/2018	93							
3/27/2019	33.4							
9/11/2019	149							
4/20/2020				14.7	242		252	
4/21/2020	163							
5/28/2020		94.7				10.3		198
7/6/2020			78.2					
8/11/2020		79	64.1	12.6		9.32		206
8/12/2020	132				180		274	
3/8/2021		71.5	56.9					
3/9/2021						9.2		202
3/10/2021				44.2	139		66.5	
3/16/2021	167							
8/16/2021			42.2					
8/17/2021		83.1				7.2		214
8/23/2021	155			11.6	106		117	
3/23/2022		60.4	38.9			8.46		225
4/4/2022	160							
4/5/2022					119 (D)		50.75 (D)	
4/6/2022				120 (D)				
10/3/2022			37.799999					
10/4/2022		79.400002				9		193
10/5/2022					101		54.799999	
10/17/2022	154			32.099998				
5/15/2023			51.799999					
5/17/2023	163							
5/23/2023		98.900002			80	5.78	53.599998	199
5/30/2023				74.199997				
10/18/2023			84.199997					
10/24/2023	150	57.200001				6.1		193
10/31/2023				10.2	94.800003		80.699997	



# Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								49.4
2/17/2016	132						311	
4/12/2016	130							
4/13/2016							330	51.7
5/31/2016	111						324	
6/1/2016								51.2
8/17/2016	95.8						306	42.9
10/11/2016	101							
10/12/2016							296	39.5
1/24/2017	129							
1/25/2017							243	31.3
5/10/2017	120						210	30
6/28/2017	100						210	35
8/29/2017	95						220	40
6/5/2018	98						390	25
9/11/2018	100						360	23
11/7/2018	97						390	30
3/26/2019	120						430	21.6
9/10/2019	140						409	37.4
4/21/2020	153						318	43.3
8/19/2020	163						296	44.5
3/9/2021	187						347	71.7
8/17/2021		6.86	13	14.9	22.7	128		
8/24/2021	210						234	71.4
3/23/2022		6.73	10.1	15.9	18.5	156		
3/29/2022	190						187	75.3
10/4/2022		6.49	8.6	14.9	19.5	146		
10/18/2022	179						256	84.800003
5/17/2023						130		
5/22/2023				13.4	21.200001			
5/23/2023		6.96	8.72					
5/30/2023	210						236	69.5
10/18/2023						117		
10/23/2023				14.1	19			
10/24/2023		7.47	8.55					
10/25/2023	203						257	91.699997

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	45.2	
4/13/2016	43.9	
6/1/2016	32	
8/17/2016	31.9	
10/12/2016	39.6	
1/25/2017	44	
5/10/2017	32	
6/28/2017	34	
8/29/2017	34	
6/5/2018	22	
9/11/2018	33	
9/12/2018		400
11/7/2018	76	
3/26/2019	138	
9/10/2019	115	499
4/20/2020		482
4/21/2020	133	
8/17/2020		493
8/18/2020	115	
3/9/2021	107	
3/10/2021		510
8/17/2021		569
8/24/2021	139	
3/29/2022	193	
4/5/2022		822.5 (D)
10/5/2022		782
10/18/2022	171	
5/17/2023		840
5/30/2023	135	
10/24/2023		607
10/25/2023	81.300003	

# Time Series

Constituent: TDS (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		312		264	242	340		
2/17/2016	1540		158				408	310
4/12/2016					176	298	334	
4/13/2016	1200	324	161	238				372
5/31/2016		333	173	206	189	309	351	
6/1/2016	1440							360
8/15/2016	1420							366
8/16/2016		327	173	180	192		367	
8/17/2016						269		
10/11/2016	1420							
10/12/2016		312	173	223				
11/1/2016					244	252	372	
11/2/2016								374
1/24/2017	1350						354	380
1/25/2017		286	161	271	274	259		
5/9/2017	1540		195	236	191	285		
5/10/2017		326					332	381
6/27/2017	1470						331	404
6/28/2017		304	227	198	176	348		
8/29/2017		348	229	187	163	528		
8/30/2017	1530						317	420
6/4/2018	1370							
6/5/2018		346	200				318	408
6/6/2018				199	138	932		
9/10/2018	1380		183					
9/11/2018		335		184	185		321	
9/12/2018						180		415
11/5/2018			193	210	208			
11/6/2018	1450						331	447
11/7/2018		342				528		
3/26/2019				230	198		338 (D)	481
3/27/2019	1910	347	211			834		
9/10/2019	1740	351	201	218 (D)		658	358	453
9/11/2019					316			
4/20/2020					201		369	461
4/21/2020	1530			291		628		
4/22/2020		338	249					
8/11/2020						688		482
8/12/2020							401	
8/17/2020	1590							
8/18/2020		376	260	250	444			
3/9/2021						618		524
3/10/2021			274	331			397	
3/15/2021		406			374			
3/16/2021	1620							
8/17/2021	1340							490
8/24/2021		423						
8/25/2021			358	263	359	774	407	
3/29/2022				290			406	
3/30/2022			280					
4/4/2022	1310 (D)	443.5 (D)				644 (D)		
4/6/2022					298			472 (D)

# Time Series

Constituent: TDS (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
10/5/2022	1190							
10/17/2022			323	243	708			
10/18/2022		449				662	423	486
5/16/2023	1050							
5/17/2023			354					
5/23/2023							410	
5/24/2023		490				650		
5/30/2023				279				
5/31/2023					333			502
10/24/2023	1260						409	
10/25/2023			374	189	189			449
11/1/2023		452				653		

# Time Series

Constituent: TDS (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				264				
2/17/2016	328	464	516		142	53	144	
4/12/2016		491			155	38.7	140	
4/13/2016	373		508	226				
6/1/2016	442	468	494	231	148	46	139	
8/15/2016	392	454	476					
8/16/2016				181	132	48		
8/17/2016							142	64
9/20/2016								60
10/11/2016			508					
10/12/2016				225				54.7
11/2/2016	469	422			115	66.7	128	
11/29/2016								42
1/4/2017								56
1/23/2017								50.7
1/24/2017	464	408	510		107	78.7	124	
1/25/2017				277				
5/9/2017			510	255	80.7		136	126
5/10/2017	492	358				92.7		
6/27/2017	516	382			96.7			93.3
6/28/2017			480	175		118	145	
8/29/2017				218	120	128	139	84
8/30/2017	646	392	478					
6/4/2018			528					
6/5/2018	644	352			113	171		38.7
6/6/2018				207			153	
9/10/2018			472	197				
9/11/2018					108	170		35.3
9/12/2018	476	339					156	
11/5/2018				200				
11/6/2018	634	368	522				153	40.7
11/7/2018					96.7	163		
3/26/2019	516	406		218	103	174		36.7
3/27/2019			562				178	
9/9/2019	500	409 (D)	666					
9/10/2019				198	107	167	182	
9/11/2019								40.7
4/21/2020	490	429	878	265	107			39.3
4/22/2020						162	195	
8/11/2020	522						193	
8/12/2020		390			96	165		
8/17/2020			818					
8/18/2020				179				42
3/9/2021	684	412						
3/10/2021				296	105	179	246	
3/15/2021								42.7
3/16/2021			890					
8/17/2021	506	397	808					
8/18/2021								43.3
8/24/2021					96.7	167	224	
8/25/2021				207				
3/28/2022			868		96			



# Time Series

Constituent: TDS (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				358				
4/12/2016				393				
6/1/2016				381				
8/15/2016				348				
8/16/2016			41.3		<25	142	49.3	101
8/17/2016	36.7	65.3						
9/19/2016						121	44.7	80
9/20/2016	25.3	44	42.7		26.7			
10/11/2016				379				
10/12/2016	<25							
10/31/2016		38.7	140		25.3			
11/1/2016						103	48	78
11/28/2016						84	40.7	68.7
11/29/2016	<25	34	78		<25			
1/3/2017						89.3	49.3	60.7
1/4/2017	27.3	42	34		34.7			
1/23/2017	<25				33.3			
1/24/2017		45.3		354		83.3	48.7	
1/25/2017								54.7
1/26/2017			32.7					
5/9/2017	28.7	49.3	<25	368	<25			
5/10/2017						31.3	46.7	60.7
6/27/2017	27.3	46	30.7		<25	67.3	55.3	58
6/28/2017				368				
8/29/2017	30.7							
8/30/2017		38.7	25.3	370	28	64	57.3	66.7
6/4/2018				369				
6/5/2018	26	34.7	<25		28.7	50	52.7	71.3
9/11/2018	<25	34.7	<25		29.3	53.3	60	66.7
9/12/2018				354				
11/5/2018							53.3	
11/6/2018	26	36	<25	354	<25	66		61.3
3/26/2019	<25	30	<25		26.15 (D)			
3/27/2019				362		48.7	51.35 (D)	65.3
9/9/2019				371				
9/11/2019	27.3	40	<25		34	52.7	55.3	68.3 (D)
4/20/2020				371				
4/21/2020	30.7	36	<25		26.7			
4/22/2020						49.3	52.7	62.7
8/11/2020						52		
8/12/2020							49.3	62
8/17/2020				361				
8/18/2020	27.3	35.3	<25		30			
3/15/2021	30.7	30	<25		30	49.3	46	48
3/16/2021				340				
8/17/2021				297				
8/18/2021	28.7	32	<25		28.7			
8/23/2021						49.3	64.7	48.7
3/28/2022	32.7	38.7	<25		27.3	43.3	51.3	57.3
4/5/2022				338 (D)				
10/5/2022				319		40.700001	43.299999	62.700001
10/19/2022	26	28.700001	<25		28			

# Time Series

Constituent: TDS (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-3	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
5/17/2023				349				
5/22/2023							51.299999	66
5/23/2023						47.299999		
5/30/2023	33.299999	32.700001	<25		28.700001			
10/24/2023	27.299999	28	<25	332	<25			
10/30/2023						52.700001	58.700001	58.700001



# Time Series

Constituent: TDS (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					381			
1/15/2019				1210		597	392	433
1/16/2019		85.3						
1/17/2019	156							
1/30/2019			184					
9/10/2019	112						576	
9/11/2019		100	182		280	454		334
4/20/2020							534	
4/21/2020		176						
4/22/2020	114		199	977	290	512		
4/29/2020								317
8/11/2020			184			526		
8/12/2020	66						588	
8/18/2020		100						299
8/19/2020				834	308			
3/9/2021			185			524		
3/10/2021					308		602	
3/15/2021	96							321
3/16/2021		111		756				
8/23/2021	89.3							
8/24/2021		94	181	742	345	490		
8/25/2021							562	376
3/28/2022	88.7							
3/29/2022				624				
3/30/2022			170		282		493	
4/6/2022		92				450 (D)		488
10/5/2022							471	
10/17/2022		96	165	706				
10/18/2022					288	478		484
10/19/2022	86.699997							
5/22/2023			167					
5/23/2023		90.699997		834	284			
5/24/2023						512		
5/31/2023	116						465	565
10/23/2023					281			
10/24/2023		101					462	
10/25/2023			185	1560				
10/31/2023						492		574
11/1/2023	123							

# Time Series

Constituent: TDS (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	334							
1/16/2019		345	706					
9/11/2019	299	366 (D)	1570					
4/20/2020			790	369				
4/21/2020	299	463					208	222
5/28/2020						195		
7/6/2020					260			
8/11/2020					258	109		
8/12/2020			728					
8/17/2020				305			181	
8/19/2020	371	534						171
3/8/2021					282	93.3		
3/9/2021	375	570						
3/10/2021			794	247			158	181
8/17/2021					303	121		
8/18/2021	401	578		730			121	130
8/23/2021			714					
3/23/2022					300	137		
3/29/2022				646				
3/30/2022							84	184
4/4/2022			604					
4/6/2022	363.5 (D)	551 (D)						
10/4/2022					257	98.699997		
10/5/2022			606					
10/18/2022				388			88.699997	
10/19/2022	431	554						211
5/16/2023			545					
5/17/2023					257			
5/22/2023				508		89.300003		
5/24/2023		578						
5/30/2023	377						66.699997	229
10/18/2023					277			
10/24/2023						92		
10/25/2023	414	511					65.300003	231
10/31/2023			549	575				

# Time Series

Constituent: TDS (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot

Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	238							
4/12/2016	316							
5/31/2016	320							
8/17/2016	325							
10/11/2016	333							
1/24/2017	336							
5/9/2017	317							
6/28/2017	373							
8/30/2017	432							
6/5/2018	347							
9/11/2018	370							
11/6/2018	409							
3/27/2019	328							
9/11/2019	455							
4/20/2020				441	545		502	
4/21/2020	494							
5/28/2020		242				56.7		401
7/6/2020			498					
8/11/2020		229	462	434		52.7		407
8/12/2020	433				497		491	
3/8/2021		218	469					
3/9/2021						52		386
3/10/2021				408	444		273	
3/16/2021	510							
8/16/2021			423					
8/17/2021		217				45.3		403
8/23/2021	481			390	405		301	
3/23/2022		236	518			47.3		389
4/4/2022	488							
4/5/2022					419 (D)		154 (D)	
4/6/2022				428 (D)				
10/3/2022			425					
10/4/2022		217				38.700001		377
10/5/2022					403		206	
10/17/2022	483			382				
5/15/2023			468					
5/17/2023	496							
5/23/2023		244			428	34	164	376
5/30/2023				427				
10/18/2023			542					
10/24/2023	462	151				38.700001		389
10/31/2023				362	514		267	

# Time Series

Constituent: TDS (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot

Plant Greene County Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								656
2/17/2016	640						892	
4/12/2016	610							
4/13/2016							1010	634
5/31/2016	626						1100	
6/1/2016								672
8/17/2016	628						1070	624
10/11/2016	636							
10/12/2016							1040	586
1/24/2017	696							
1/25/2017							972	596
5/10/2017	687						740	576
6/28/2017	622						914	612
8/29/2017	616						924	640
6/5/2018	582						1060	474
9/11/2018	616						1020	496
11/7/2018	576						1050	514
3/26/2019	682						1100	546
9/10/2019	744						1100	601 (D)
4/21/2020	742						1010	638
8/19/2020	788						1050	658
3/9/2021	716						1090	746
8/17/2021		43.3	107	59.3	53.3	318		
8/24/2021	792						930	690
3/23/2022		39.3	74	44.7	41.3	373		
3/29/2022	722						894	730
10/4/2022		28	54	42	48	330		
10/18/2022	752						1040	700
5/17/2023						318		
5/22/2023				50.700001	46			
5/23/2023		46	57.299999					
5/30/2023	818						1000	676
10/18/2023						312		
10/23/2023				56.700001	50.700001			
10/24/2023		42.700001	60.700001					
10/25/2023	790						1010	702

# Time Series

Constituent: TDS (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	226	
4/13/2016	202	
6/1/2016	224	
8/17/2016	290	
10/12/2016	315	
1/25/2017	332	
5/10/2017	361	
6/28/2017	396	
8/29/2017	402	
6/5/2018	448	
9/11/2018	462	
9/12/2018		714
11/7/2018	506	
3/26/2019	586	
9/10/2019	586	854
4/20/2020		824
4/21/2020	578	
8/17/2020		826
8/18/2020	542	
3/9/2021	532	
3/10/2021		876
8/17/2021		900
8/24/2021	624	
3/29/2022	800	
4/5/2022		1225 (D)
10/5/2022		1150
10/18/2022	692	
5/17/2023		1330
5/30/2023	646	
10/24/2023		1050
10/25/2023	525	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
2/16/2016		<0.000203		<0.000203	<0.000203	<0.000203		
2/17/2016	0.000601 (J)		0.000869 (J)				0.000697 (J)	0.000687 (J)
4/12/2016					<0.000203	<0.000203	<0.000203	
4/13/2016	<0.000203	<0.000203	<0.000203	<0.000203				<0.000203
5/31/2016		<0.000203	<0.000203	<0.000203	0.000212 (J)	<0.000203	<0.000203	
6/1/2016	<0.000203							0.000272 (J)
8/15/2016	<0.000203							0.000278 (J)
8/16/2016		<0.000203	<0.000203	<0.000203	0.000449 (J)		<0.000203	
8/17/2016						<0.000203		
10/11/2016	<0.000203						<0.000203	
10/12/2016		<0.000203	<0.000203	<0.000203	0.000532 (J)	<0.000203		0.000322 (J)
1/24/2017	<0.000203						<0.000203	0.000265 (J)
1/25/2017		<0.000203	<0.000203	<0.000203	0.000309 (J)	<0.000203		
5/9/2017	<0.000203		<0.000203	<0.000203	0.00021 (J)	<0.000203		
5/10/2017		<0.000203					<0.000203	0.000327 (J)
6/27/2017	<0.000203						<0.000203	0.000301 (J)
6/28/2017		<0.000203	<0.000203	<0.000203	0.000244 (J)	<0.000203		
2/27/2018	<0.000203	<0.000203	<0.000203			<0.000203		
2/28/2018				<0.000203	<0.000203		<0.000203	0.000321 (J)
6/4/2018	<0.000203							
6/5/2018		<0.000203	<0.000203				<0.000203	0.000288 (J)
6/6/2018				<0.000203	0.000239 (J)	<0.000203		
11/5/2018			<0.000203	<0.000203	0.000623 (J)			
11/6/2018	<0.000203						<0.000203	0.000354 (J)
11/7/2018		<0.000203				<0.000203		
3/26/2019				<0.000203	0.000215 (J)		<0.000203	0.00041 (J)
3/27/2019	<0.000203	<0.000203	<0.000203			<0.000203		
9/10/2019	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	0.000396 (J)
9/11/2019					0.00214			
4/20/2020					0.000433 (J)		<0.000203	0.00032 (J)
4/21/2020	<0.000203			<0.000203		<0.000203		
4/22/2020		<0.000203	<0.000203					
8/11/2020						<0.000203		0.000329 (J)
8/12/2020							<0.000203	
8/17/2020	<0.000203							
8/18/2020		<0.000203	<0.000203	<0.000203	0.00114			
3/9/2021						<0.000203		0.000369
3/10/2021			8.7E-05 (J)	<0.000203			8.78E-05 (J)	
3/15/2021		<0.000203			0.000506			
3/16/2021	0.000107 (J)							
8/17/2021	0.00012 (J)							0.00036
8/24/2021		<0.000203						
8/25/2021			9E-05 (J)	<0.000203	0.00124	<0.000203	<0.000203	
3/29/2022				<0.000203			0.00012 (J)	
3/30/2022			7E-05 (J)					
4/4/2022	0.00016 (J)	<0.000203				<0.000203		
4/6/2022					0.00169			0.00035
10/5/2022	0.000149 (J)							
10/17/2022			<0.000203	<0.000203	0.00238			
10/18/2022		<0.000203				<0.000203	8.4E-05 (J)	0.000337
5/16/2023	9.8E-05 (J)							
5/17/2023			7.3E-05 (J)					

# Time Series

Constituent: Thallium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16
5/23/2023							8.8E-05 (J)	
5/24/2023		<0.000203				<0.000203		
5/30/2023				<0.000203				
5/31/2023					0.000342			0.000316
10/24/2023	0.000173 (J)						<0.000203	
10/25/2023			0.0001 (J)	<0.000203	0.000451			0.000339
11/1/2023		<0.000203				<0.000203		

# Time Series

Constituent: Thallium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
2/16/2016				<0.000203				
2/17/2016	0.00067 (J)	0.000404 (J)	0.000388 (J)		0.000364 (J)	0.00039 (J)	0.000232 (J)	
4/12/2016		<0.000203			<0.000203	<0.000203	<0.000203	
4/13/2016	<0.000203		<0.000203	<0.000203				
6/1/2016	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
8/15/2016	<0.000203	<0.000203	<0.000203					
8/16/2016				<0.000203	<0.000203	<0.000203		
8/17/2016							<0.000203	<0.000203
9/20/2016								<0.000203
10/11/2016			<0.000203		<0.000203	<0.000203	<0.000203	
10/12/2016	<0.000203	<0.000203		<0.000203				<0.000203
11/15/2016								<0.000203
1/4/2017								<0.000203
1/23/2017								<0.000203
1/24/2017	<0.000203	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	
1/25/2017				<0.000203				
5/9/2017			<0.000203	<0.000203	<0.000203		<0.000203	<0.000203
5/10/2017	<0.000203	<0.000203				<0.000203		
6/27/2017	<0.000203	<0.000203			<0.000203			<0.000203
6/28/2017			<0.000203	<0.000203		<0.000203	<0.000203	
2/27/2018			<0.000203		<0.000203	<0.000203		<0.000203
2/28/2018	<0.000203	<0.000203		<0.000203			<0.000203	
6/4/2018			<0.000203					
6/5/2018	<0.000203	<0.000203			<0.000203	<0.000203		<0.000203
6/6/2018				<0.000203			<0.000203	
11/5/2018				<0.000203				
11/6/2018	<0.000203	<0.000203	<0.000203				<0.000203	<0.000203
11/7/2018					<0.000203	<0.000203		
3/26/2019	<0.000203	<0.000203		<0.000203	<0.000203	<0.000203		<0.000203
3/27/2019			<0.000203				<0.000203	
9/9/2019	<0.000203	<0.000203	<0.000203					
9/10/2019				<0.000203	<0.000203	<0.000203	<0.000203	
9/11/2019								<0.000203
4/21/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203			<0.000203
4/22/2020						<0.000203	<0.000203	
8/11/2020	<0.000203						<0.000203	
8/12/2020		<0.000203			<0.000203	<0.000203		
8/17/2020			<0.000203					
8/18/2020				<0.000203				<0.000203
3/9/2021	<0.000203	<0.000203						
3/10/2021				0.000106 (J)	<0.000203	<0.000203	<0.000203	
3/15/2021								<0.000203
3/16/2021			0.000101 (J)					
8/17/2021	<0.000203	<0.000203	0.00013 (J)					
8/18/2021								<0.000203
8/24/2021					<0.000203	<0.000203	<0.000203	
8/25/2021				<0.000203				
3/28/2022			0.00015 (J)		<0.000203			
3/29/2022							<0.000203	
3/30/2022				0.00011 (J)				
4/4/2022	<0.000203					<0.000203		<0.000203
4/6/2022		<0.000203						



# Time Series

Constituent: Thallium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-26 (bg)
10/5/2022			0.000158 (J)					
10/17/2022		<0.000203		0.00012 (J)	<0.000203	<0.000203		
10/18/2022	<0.000203						<0.000203	
10/19/2022								<0.000203
5/16/2023					<0.000203	<0.000203		
5/17/2023	<0.000203		9.4E-05 (J)					
5/22/2023		<0.000203						
5/30/2023				<0.000203			<0.000203	<0.000203
10/23/2023	<0.000203	<0.000203						
10/24/2023			0.000136 (J)					<0.000203
10/25/2023				<0.000203	<0.000203	<0.000203		
11/1/2023							<0.000203	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
2/17/2016				0.00038 (J)			
4/12/2016				<0.000203			
6/1/2016				<0.000203			
8/15/2016				<0.000203			
8/16/2016			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
8/17/2016	<0.000203	<0.000203					
9/19/2016					<0.000203	<0.000203	<0.000203
9/20/2016	<0.000203	<0.000203	<0.000203	<0.000203			
10/11/2016			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
10/12/2016	<0.000203	<0.000203					
11/14/2016					<0.000203	<0.000203	<0.000203
11/15/2016	<0.000203	<0.000203	<0.000203	<0.000203			
1/3/2017					<0.000203	<0.000203	<0.000203
1/4/2017	<0.000203	<0.000203	<0.000203	<0.000203			
1/23/2017	<0.000203				<0.000203		
1/24/2017		<0.000203		<0.000203	<0.000203	<0.000203	
1/25/2017							<0.000203
1/26/2017			<0.000203				
5/9/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
5/10/2017					<0.000203	<0.000203	<0.000203
6/27/2017	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
6/28/2017				<0.000203			
2/27/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
6/4/2018				<0.000203			
6/5/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
11/5/2018						<0.000203	
11/6/2018	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
3/26/2019	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
3/27/2019				<0.000203	<0.000203	<0.000203	<0.000203
9/9/2019				<0.000203			
9/11/2019	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
4/20/2020				<0.000203			
4/21/2020	<0.000203	<0.000203	<0.000203	<0.000203			
4/22/2020					<0.000203	<0.000203	<0.000203
8/11/2020					<0.000203		
8/12/2020						<0.000203	<0.000203
8/17/2020				<0.000203			
8/18/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
3/15/2021	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
3/16/2021				<0.000203			
8/17/2021				<0.000203			
8/18/2021	<0.000203	<0.000203	<0.000203	<0.000203			
8/23/2021					<0.000203	<0.000203	<0.000203
3/28/2022	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
4/5/2022				<0.000203			
10/5/2022				<0.000203	<0.000203	<0.000203	<0.000203
10/19/2022	<0.000203	<0.000203	<0.000203	<0.000203			
5/17/2023				<0.000203			
5/22/2023						<0.000203	<0.000203
5/23/2023					<0.000203		
5/30/2023	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
10/24/2023	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		

# Time Series

Constituent: Thallium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

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10/30/2023	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33
					<0.000203	<0.000203	<0.000203

# Time Series

Constituent: Thallium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-34HA	GC-AP-MW-35H	GC-AP-MW-36H	GC-AP-MW-37H	GC-AP-MW-38H	GC-AP-MW-39H	GC-AP-MW-40H	GC-AP-MW-41H
1/14/2019					<0.000203			
1/15/2019				<0.000203		0.00092 (J)	<0.000203	<0.000203
1/16/2019		<0.000203						
1/17/2019	<0.000203							
1/30/2019			<0.000203					
9/10/2019	<0.000203						0.000223 (J)	
9/11/2019		<0.000203	<0.000203		<0.000203	0.000983 (J)		<0.000203
4/20/2020							<0.000203	
4/21/2020		<0.000203						
4/22/2020	<0.000203		<0.000203	<0.000203	<0.000203	0.0008 (J)		
4/29/2020								<0.000203
8/11/2020			<0.000203			0.000814 (J)		
8/12/2020	<0.000203						0.000208 (J)	
8/18/2020		<0.000203						<0.000203
8/19/2020				<0.000203	<0.000203			
3/9/2021			<0.000203			0.000828		
3/10/2021					<0.000203		0.000186 (J)	
3/15/2021	<0.000203							<0.000203
3/16/2021		<0.000203		<0.000203				
8/23/2021	<0.000203							
8/24/2021		<0.000203	<0.000203	<0.000203	<0.000203	0.00076		
8/25/2021							0.00013 (J)	<0.000203
3/28/2022	<0.000203							
3/29/2022				<0.000203				
3/30/2022			<0.000203		<0.000203		0.00017 (J)	
4/6/2022		<0.000203				0.00059		<0.000203
10/5/2022							0.000188 (J)	
10/17/2022		<0.000203	<0.000203	<0.000203				
10/18/2022					<0.000203	0.000636		<0.000203
10/19/2022	<0.000203							
5/22/2023			<0.000203					
5/23/2023		<0.000203		<0.000203	<0.000203			
5/24/2023						0.000665		
5/31/2023	<0.000203						7.6E-05 (J)	<0.000203
10/23/2023					<0.000203			
10/24/2023		<0.000203					0.00012 (J)	
10/25/2023			<0.000203	<0.000203				
10/31/2023						0.000595		<0.000203
11/1/2023	<0.000203							

# Time Series

Constituent: Thallium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-42H	GC-AP-MW-43H	GC-AP-MW-44H	GC-AP-MW-45H	GC-AP-MW-46HO	GC-AP-MW-47HO	GC-AP-MW-48H	GC-AP-MW-49H
1/15/2019	<0.000203							
1/16/2019		<0.000203	<0.000203					
9/11/2019	<0.000203	<0.000203	<0.000203					
4/20/2020			<0.000203	<0.000203				
4/21/2020	<0.000203	<0.000203					<0.000203	<0.000203
5/28/2020						<0.000203		
7/6/2020				<0.000203				
8/11/2020				<0.000203	<0.000203			
8/12/2020			<0.000203					
8/17/2020				<0.000203			<0.000203	
8/19/2020	<0.000203	<0.000203						<0.000203
3/8/2021					<0.000203	<0.000203		
3/9/2021	<0.000203	<0.000203						
3/10/2021			<0.000203	0.000103 (J)			<0.000203	<0.000203
8/17/2021					<0.000203	<0.000203		
8/18/2021	<0.000203	<0.000203		0.00021			<0.000203	<0.000203
8/23/2021			<0.000203					
3/23/2022					7E-05 (J)	<0.000203		
3/29/2022				0.00013 (J)				
3/30/2022							<0.000203	<0.000203
4/4/2022			<0.000203					
4/6/2022	<0.000203	<0.000203						
10/4/2022					<0.000203	<0.000203		
10/5/2022			8.7E-05 (J)					
10/18/2022				0.000159 (J)			<0.000203	
10/19/2022	<0.000203	<0.000203						<0.000203
5/16/2023			<0.000203					
5/17/2023					<0.000203			
5/22/2023				0.000273		<0.000203		
5/24/2023		<0.000203						
5/30/2023	<0.000203						<0.000203	<0.000203
10/18/2023					<0.000203			
10/24/2023						<0.000203		
10/25/2023	<0.000203	<0.000203					<0.000203	<0.000203
10/31/2023			8.7E-05 (J)	0.000248				

# Time Series

Constituent: Thallium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-50HO	GC-AP-MW-52HO	GC-AP-MW-53H	GC-AP-MW-54H	GC-AP-MW-55HO	GC-AP-MW-57H	GC-AP-MW-59HO
2/17/2016	0.000779 (J)							
4/12/2016	<0.000203							
5/31/2016	<0.000203							
8/17/2016	<0.000203							
10/11/2016	<0.000203							
1/24/2017	<0.000203							
5/9/2017	<0.000203							
6/28/2017	<0.000203							
2/27/2018	<0.000203							
6/5/2018	<0.000203							
11/6/2018	<0.000203							
3/27/2019	<0.000203							
9/11/2019	<0.000203							
4/20/2020				<0.000203	<0.000203		<0.000203	
4/21/2020	<0.000203							
5/28/2020		<0.000203				<0.000203		<0.000203
7/6/2020			<0.000203					
8/11/2020		<0.000203	<0.000203	<0.000203		<0.000203		<0.000203
8/12/2020	<0.000203				<0.000203		<0.000203	
3/8/2021		<0.000203	<0.000203					
3/9/2021						<0.000203		<0.000203
3/10/2021				<0.000203	<0.000203		<0.000203	
3/16/2021	<0.000203							
8/16/2021			<0.000203					
8/17/2021		8E-05 (J)				<0.000203		0.00012 (J)
8/23/2021	<0.000203			<0.000203	<0.000203		<0.000203	
3/23/2022		0.00011 (J)	<0.000203			<0.000203		0.00013 (J)
4/4/2022	<0.000203							
4/5/2022					<0.000203		<0.000203	
4/6/2022				<0.000203				
10/3/2022			<0.000203					
10/4/2022		<0.000203				<0.000203		8.8E-05 (J)
10/5/2022					<0.000203		<0.000203	
10/17/2022	<0.000203			<0.000203				
5/15/2023			<0.000203					
5/17/2023	<0.000203							
5/23/2023		9.1E-05 (J)			<0.000203	<0.000203	<0.000203	0.000118 (J)
5/30/2023				<0.000203				
10/18/2023			<0.000203					
10/24/2023	<0.000203	<0.000203				<0.000203		9.7E-05 (J)
10/31/2023				<0.000203	<0.000203		<0.000203	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
 Plant Greene County Data: Greene County AP

Date	GC-AP-MW-6	GC-AP-MW-60HO	GC-AP-MW-61HO	GC-AP-MW-62HO	GC-AP-MW-63HO	GC-AP-MW-64HO	GC-AP-MW-7	GC-AP-MW-8
2/16/2016								<0.000203
2/17/2016	0.000639 (J)						0.00042 (J)	
4/12/2016	<0.000203							
4/13/2016							<0.000203	<0.000203
5/31/2016	<0.000203						<0.000203	
6/1/2016								<0.000203
8/17/2016	<0.000203						<0.000203	<0.000203
10/11/2016	<0.000203							
10/12/2016							<0.000203	<0.000203
1/24/2017	<0.000203							
1/25/2017							<0.000203	<0.000203
5/10/2017	<0.000203						<0.000203	<0.000203
6/28/2017	<0.000203						<0.000203	<0.000203
2/27/2018	<0.000203						<0.000203	<0.000203
6/5/2018	<0.000203						<0.000203	<0.000203
11/7/2018	<0.000203						<0.000203	<0.000203
3/26/2019	<0.000203						<0.000203	<0.000203
9/10/2019	<0.000203						<0.000203	<0.000203
4/21/2020	<0.000203						<0.000203	<0.000203
8/19/2020	<0.000203						<0.000203	<0.000203
3/9/2021	<0.000203						<0.000203	<0.000203
8/17/2021		<0.000203	<0.000203	<0.000203	<0.000203	8E-05 (J)		
8/24/2021	<0.000203						<0.000203	<0.000203
3/23/2022		<0.000203	<0.000203	<0.000203	<0.000203	9E-05 (J)		
3/29/2022	<0.000203						<0.000203	<0.000203
10/4/2022		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
10/18/2022	<0.000203						<0.000203	<0.000203
5/17/2023							<0.000203	
5/22/2023				<0.000203	<0.000203			
5/23/2023		<0.000203	<0.000203					
5/30/2023	<0.000203						<0.000203	<0.000203
10/18/2023						9.5E-05 (J)		
10/23/2023				<0.000203	<0.000203			
10/24/2023		<0.000203	<0.000203					
10/25/2023	<0.000203						<0.000203	<0.000203

# Time Series

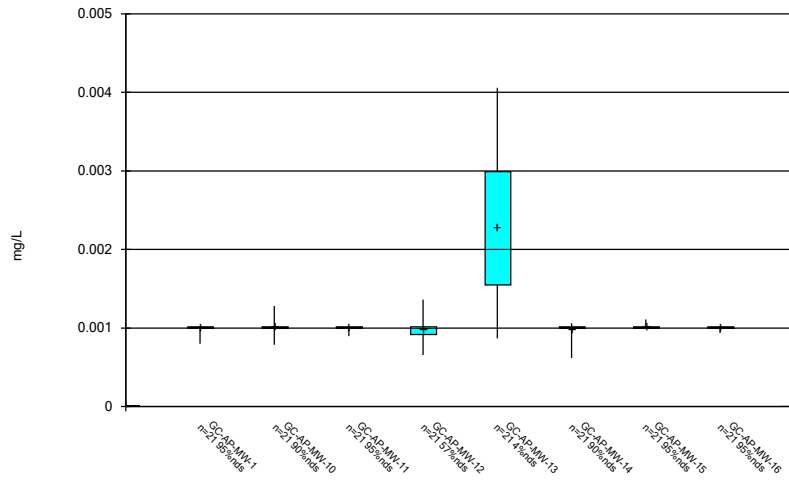
Constituent: Thallium (mg/L) Analysis Run 1/1/2024 4:45 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

	GC-AP-MW-9	GC-AP-PZ-4
2/16/2016	<0.000203	
4/13/2016	<0.000203	
6/1/2016	<0.000203	
8/17/2016	<0.000203	
10/12/2016	<0.000203	
1/25/2017	<0.000203	
5/10/2017	<0.000203	
6/28/2017	<0.000203	
2/27/2018	<0.000203	
6/5/2018	<0.000203	
11/7/2018	<0.000203	
3/26/2019	<0.000203	
9/10/2019	<0.000203	<0.000203
4/20/2020		<0.000203
4/21/2020	<0.000203	
8/17/2020		<0.000203
8/18/2020	<0.000203	
3/9/2021	<0.000203	
3/10/2021		7.61E-05 (J)
8/17/2021		0.00011 (J)
8/24/2021	<0.000203	
3/29/2022	<0.000203	
4/5/2022		9E-05 (J)
10/5/2022		0.000158 (J)
10/18/2022	<0.000203	
5/17/2023		8.4E-05 (J)
5/30/2023	<0.000203	
10/24/2023		0.000124 (J)
10/25/2023	<0.000203	



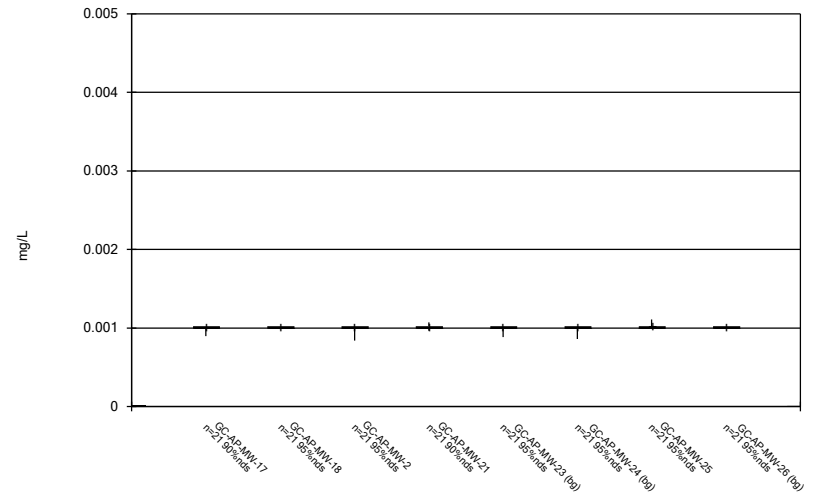
FIGURE B.

### Box & Whiskers Plot



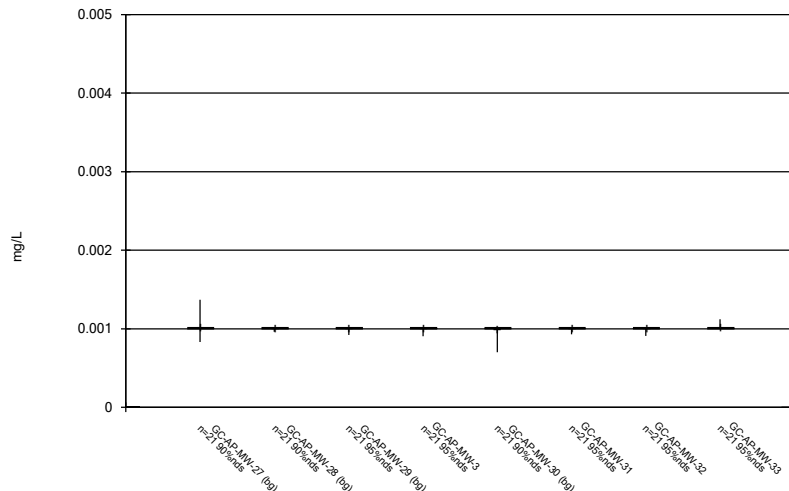
Constituent: Antimony Analysis Run 1/1/2024 4:46 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



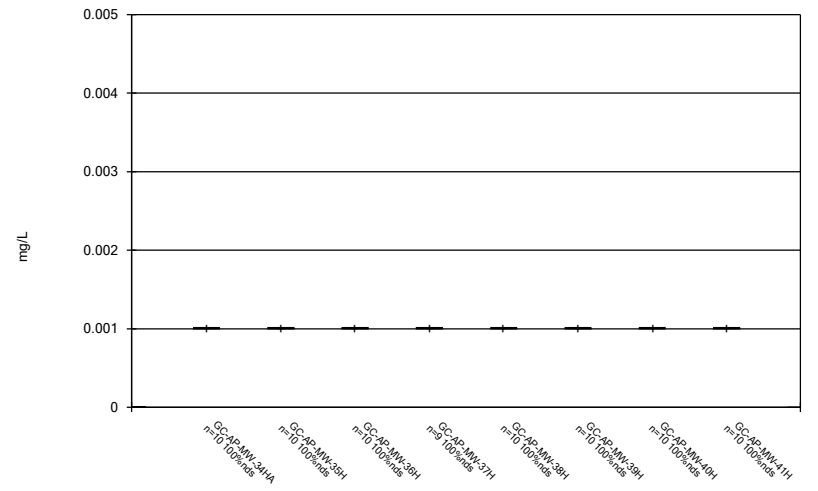
Constituent: Antimony Analysis Run 1/1/2024 4:46 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



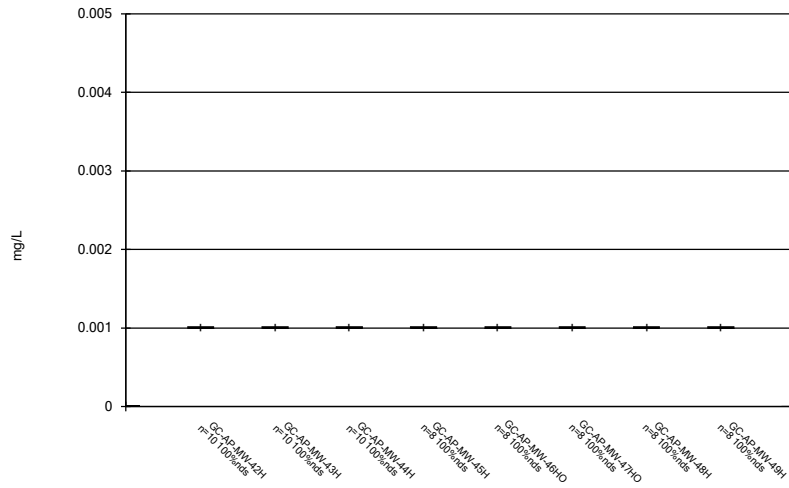
Constituent: Antimony Analysis Run 1/1/2024 4:46 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



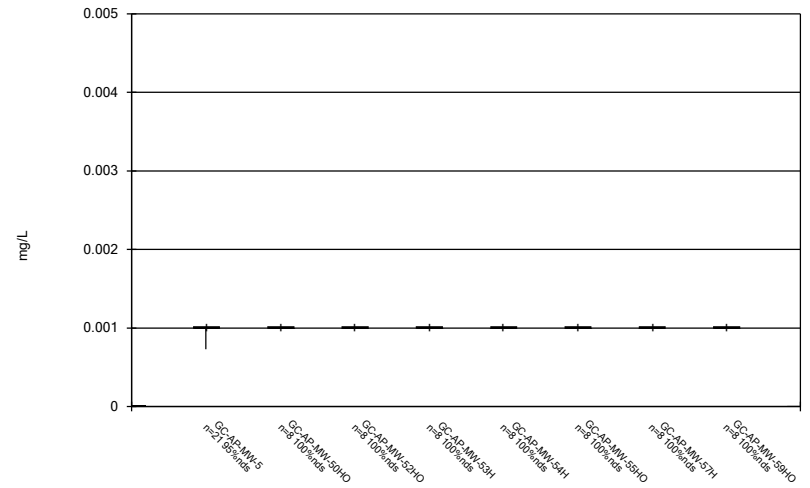
Constituent: Antimony Analysis Run 1/1/2024 4:46 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



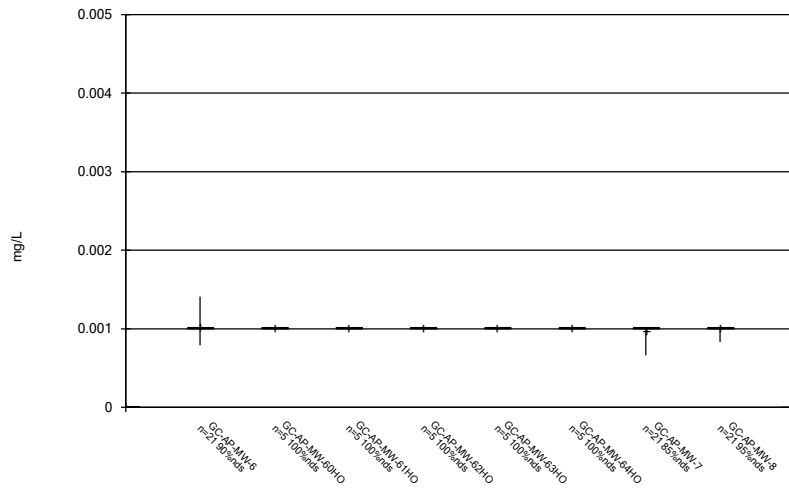
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



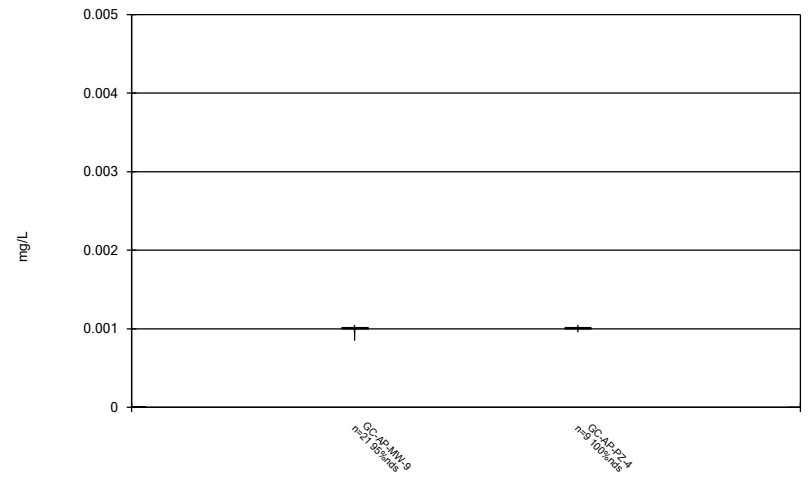
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### Box & Whiskers Plot



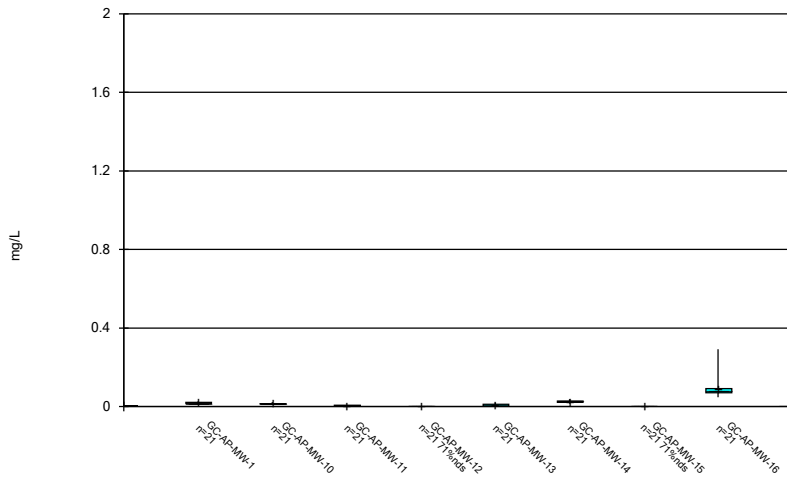
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### Box & Whiskers Plot



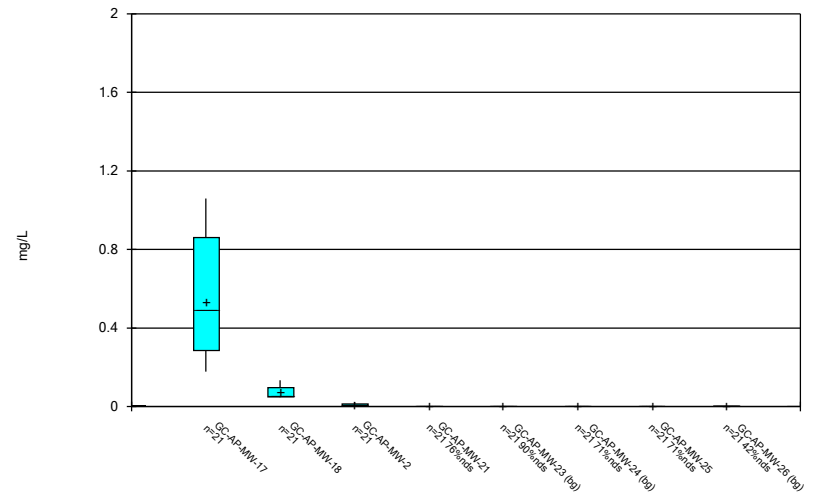
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### Box & Whiskers Plot



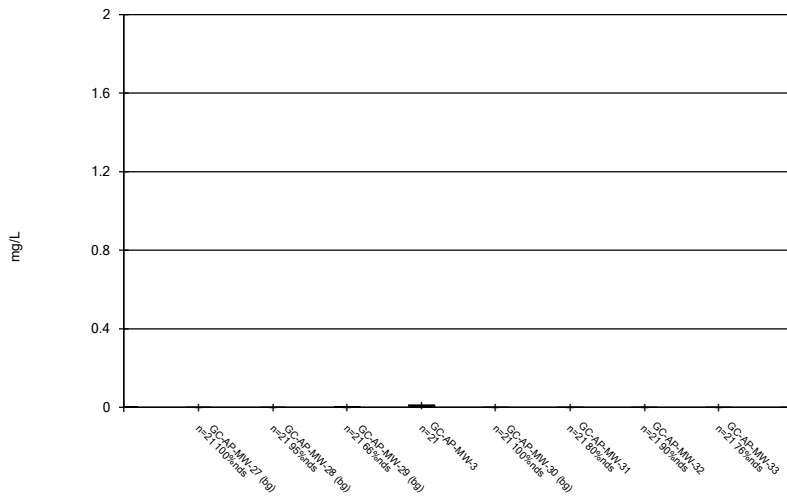
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### Box & Whiskers Plot



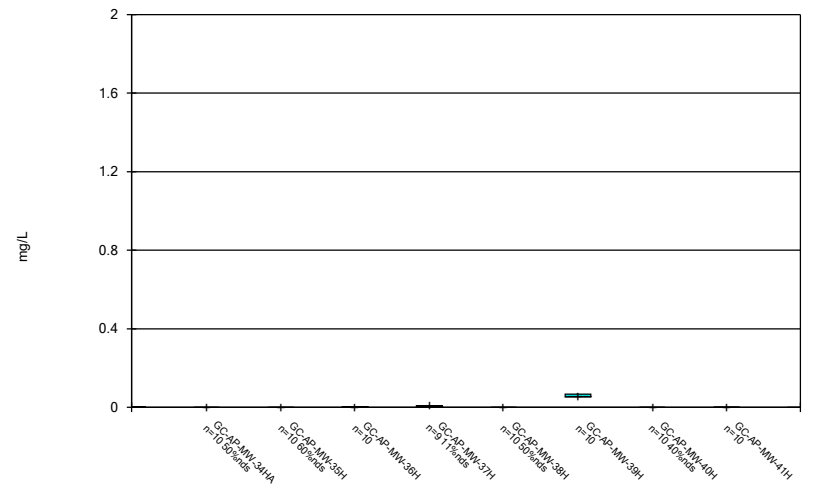
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### Box & Whiskers Plot



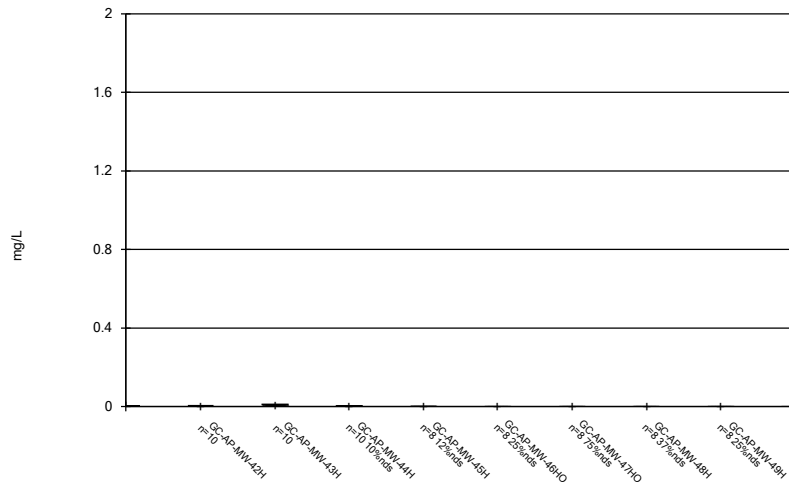
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### Box & Whiskers Plot



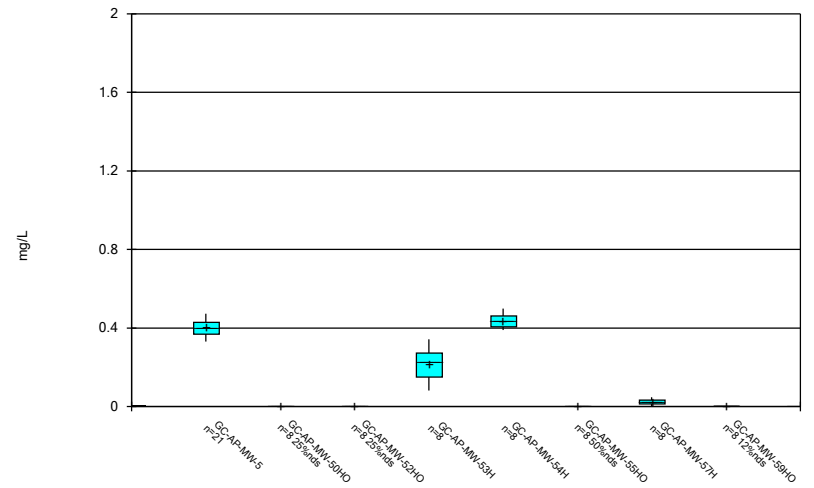
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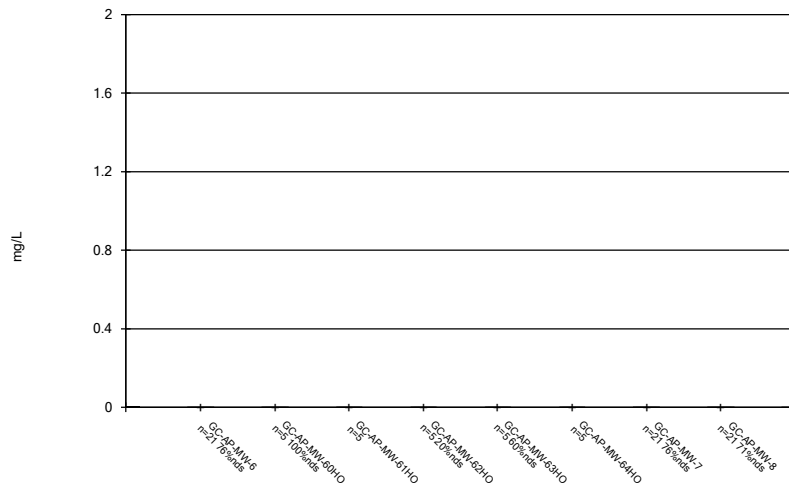
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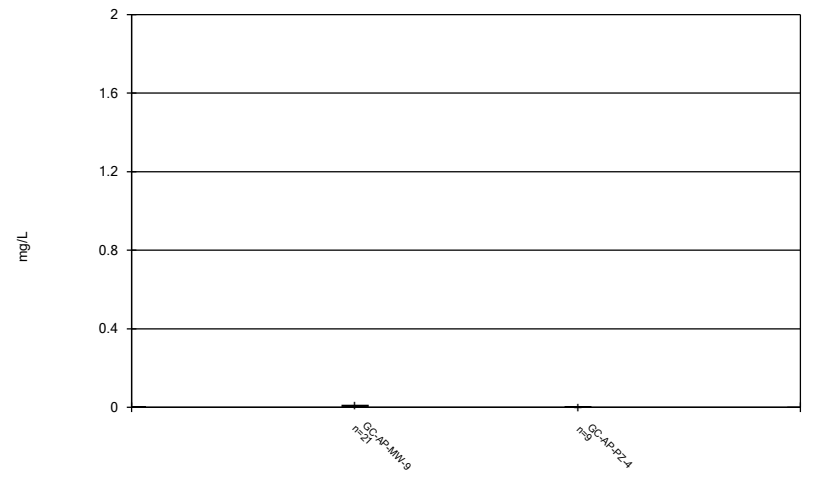
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### Box & Whiskers Plot



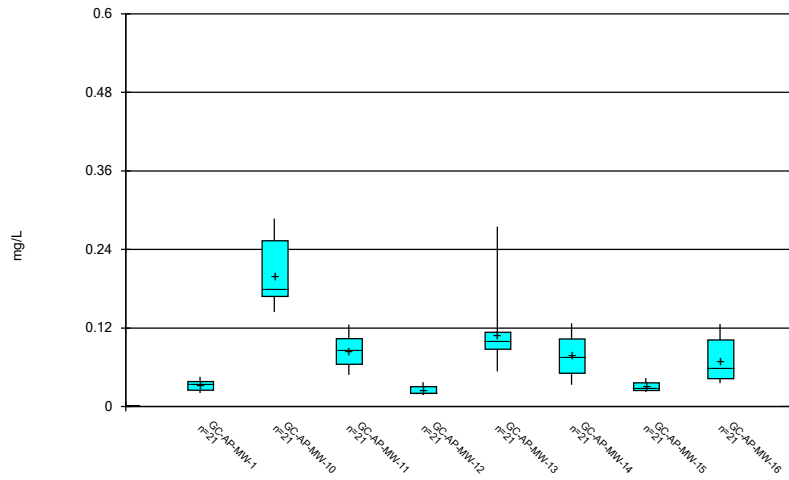
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### Box & Whiskers Plot



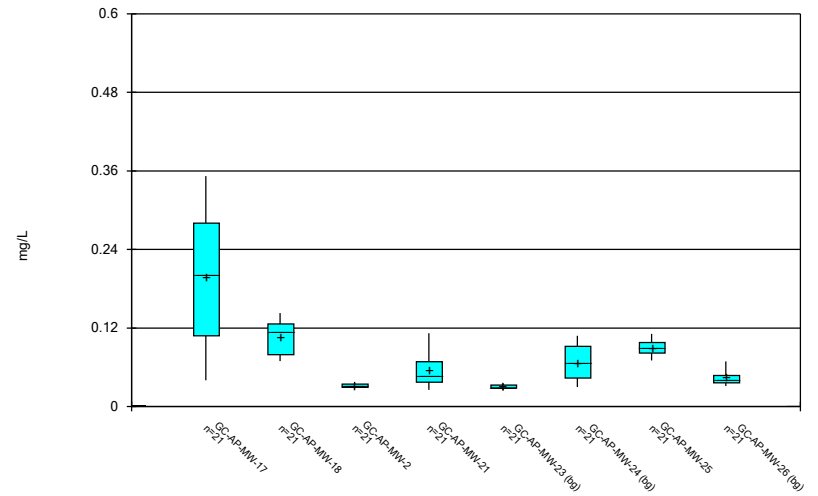
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### Box & Whiskers Plot



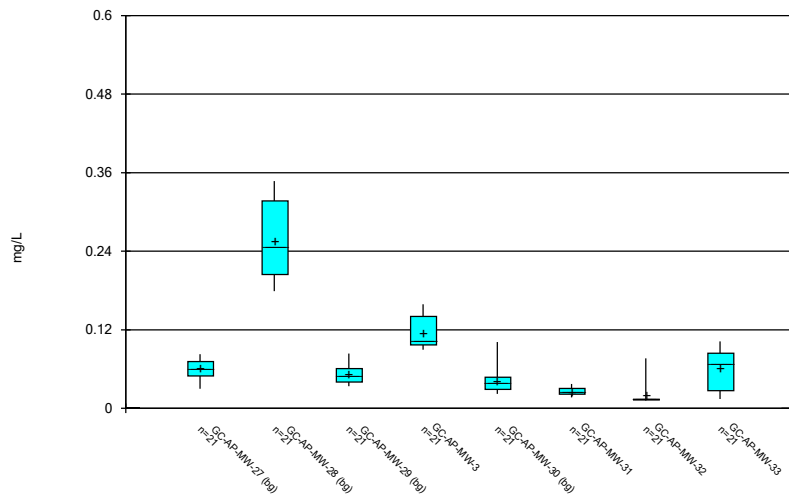
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### Box & Whiskers Plot



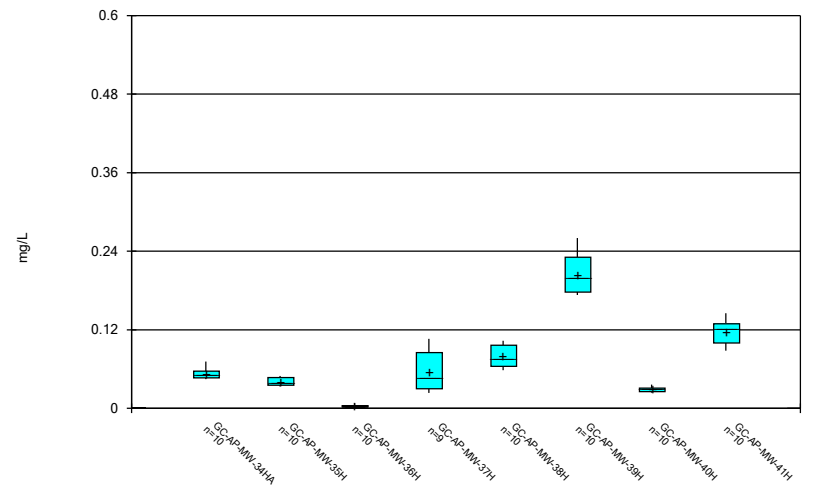
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### Box & Whiskers Plot



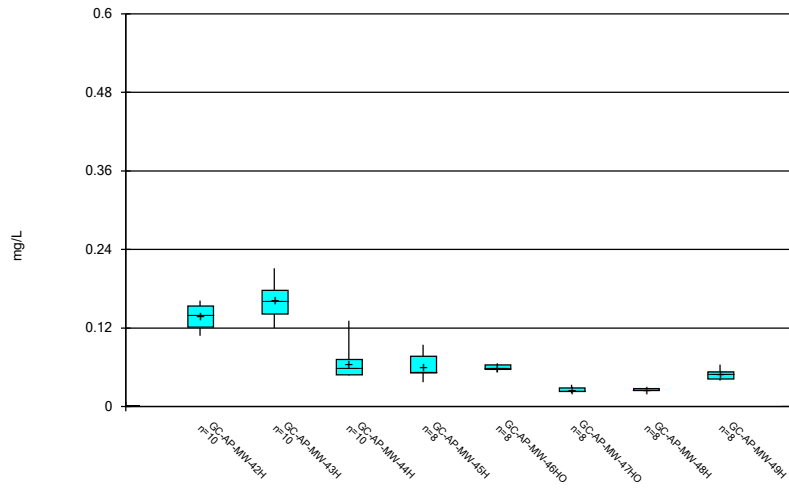
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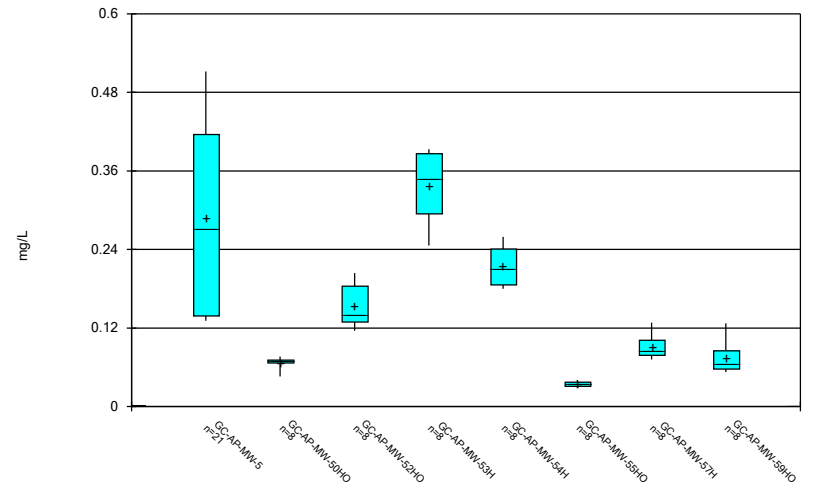
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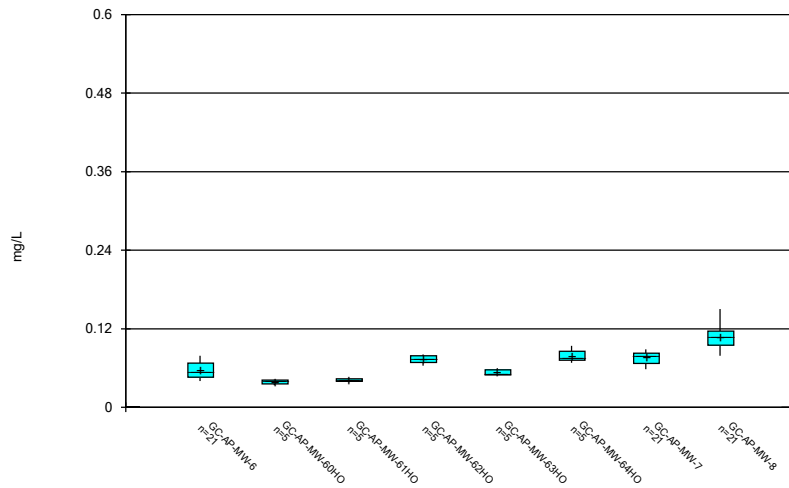
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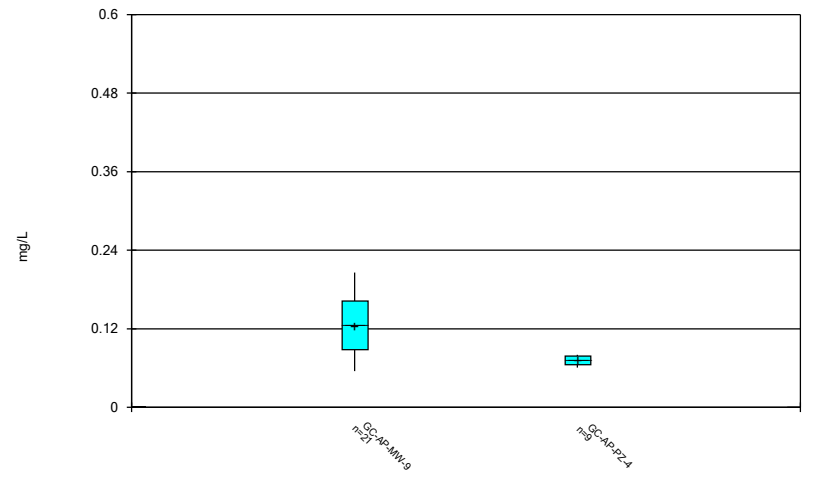
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### Box & Whiskers Plot



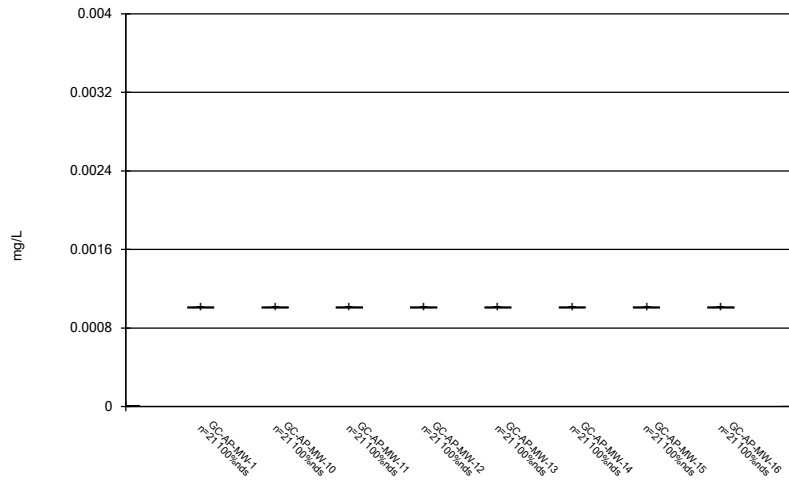
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### Box & Whiskers Plot



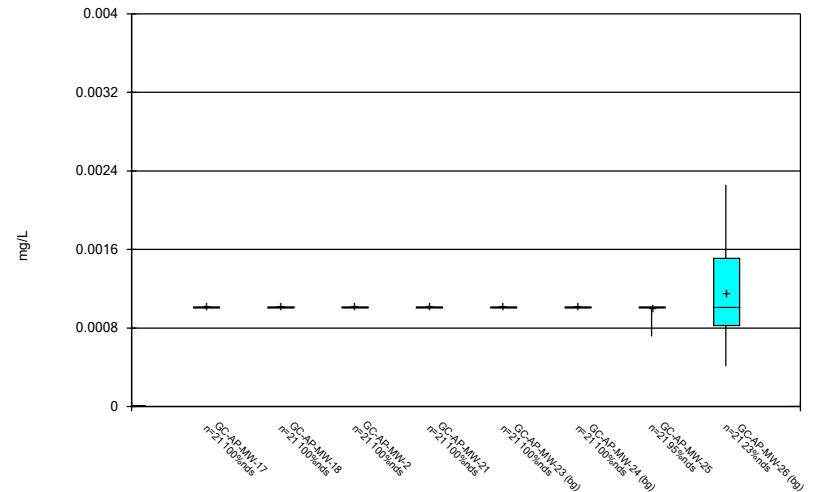
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### Box & Whiskers Plot



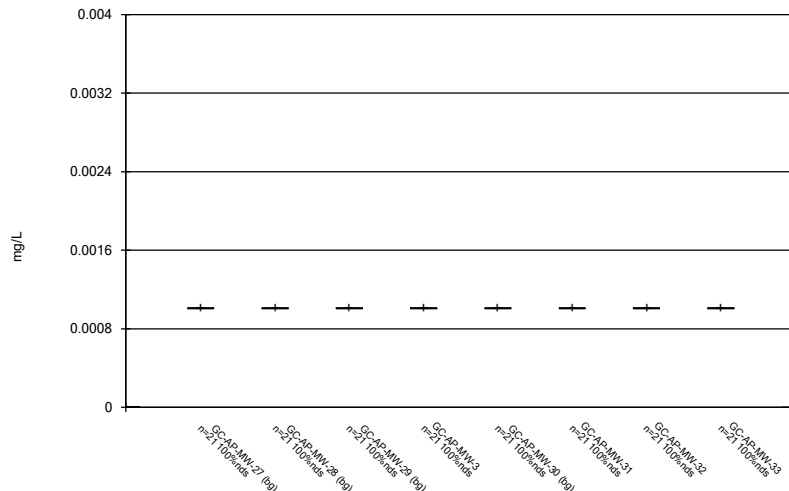
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### Box & Whiskers Plot



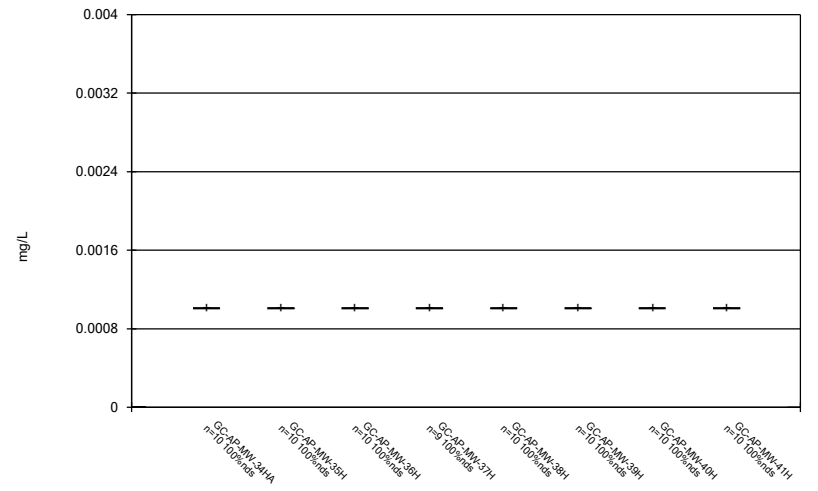
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### Box & Whiskers Plot



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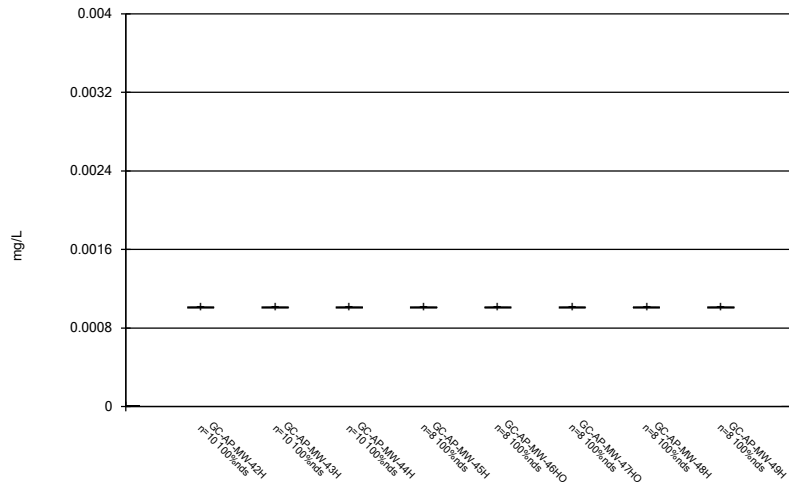
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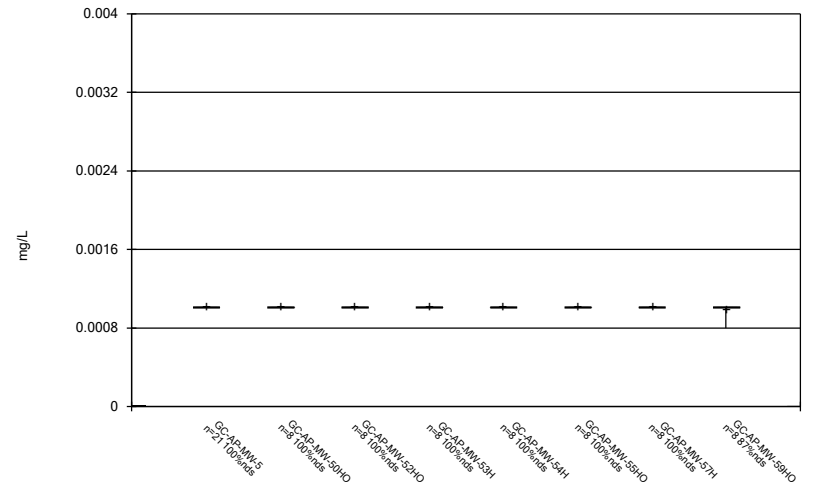


### Box & Whiskers Plot



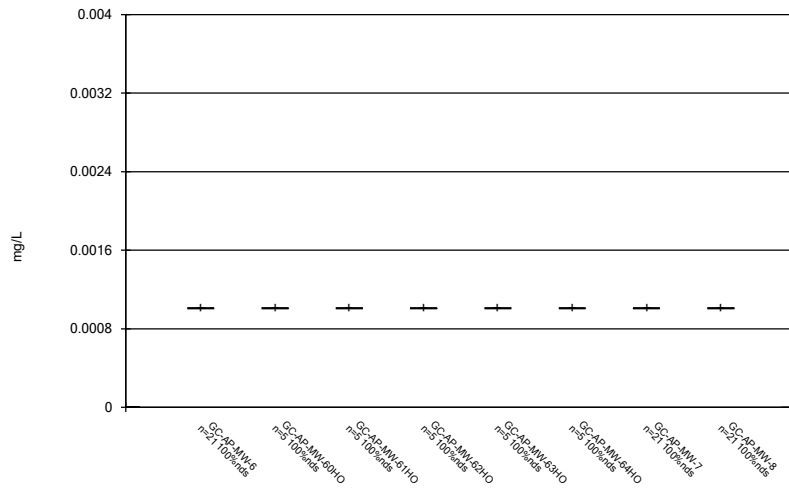
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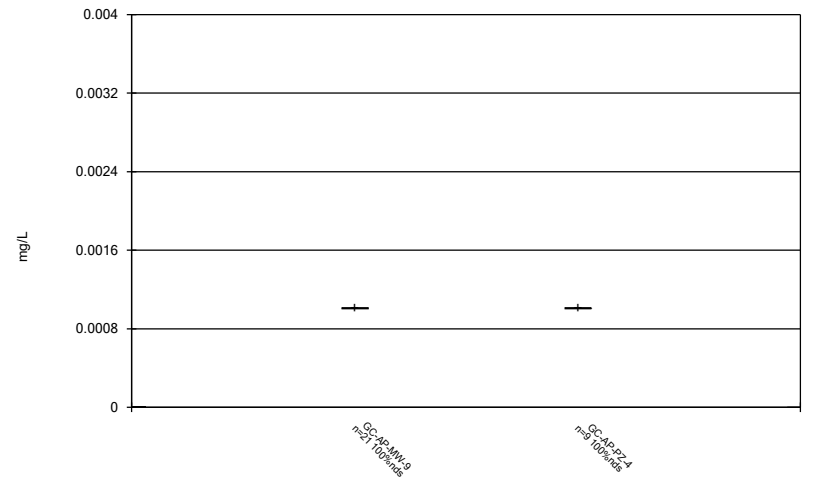
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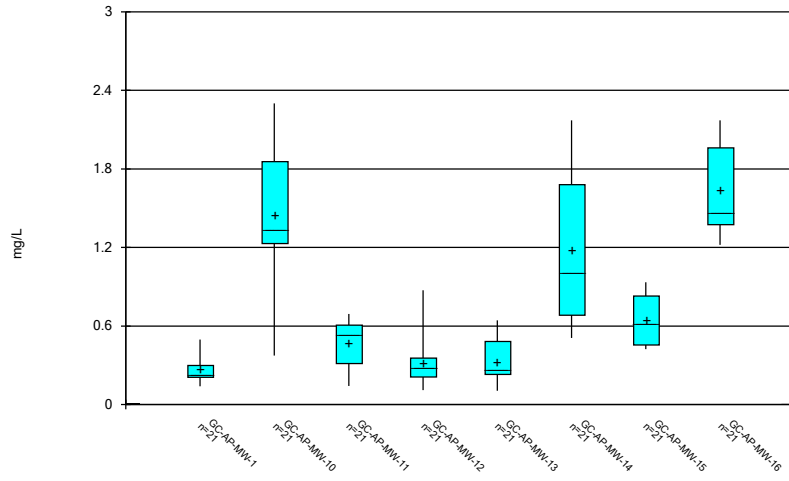
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### Box & Whiskers Plot



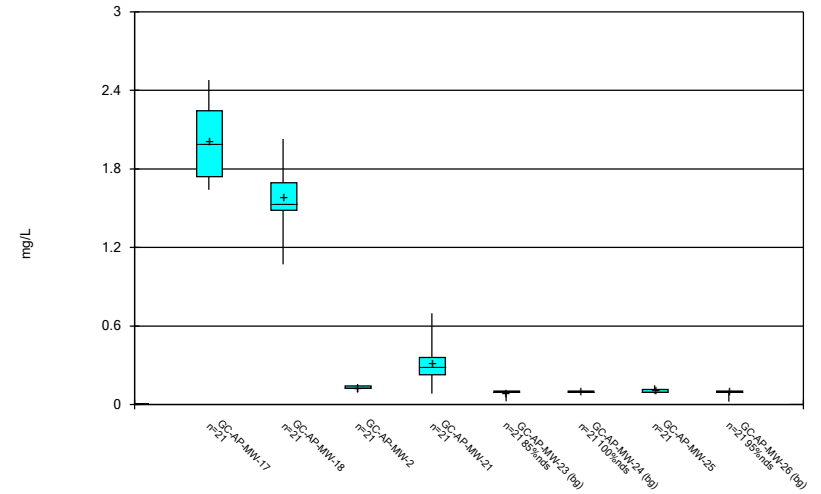
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### Box & Whiskers Plot



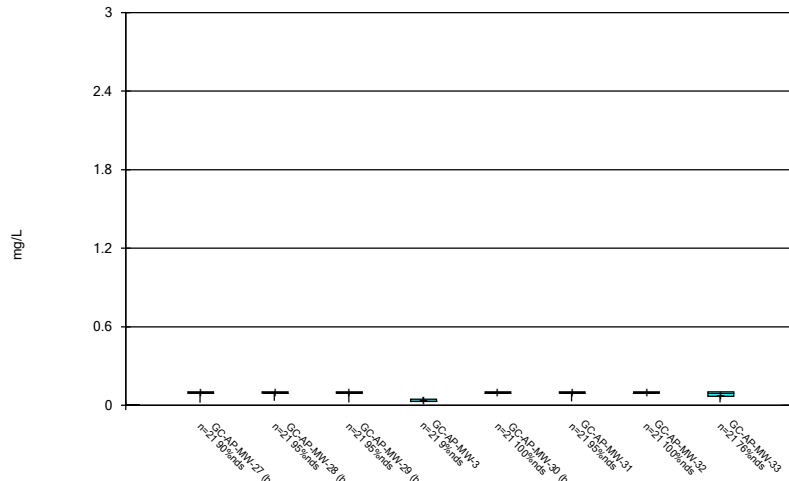
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### Box & Whiskers Plot



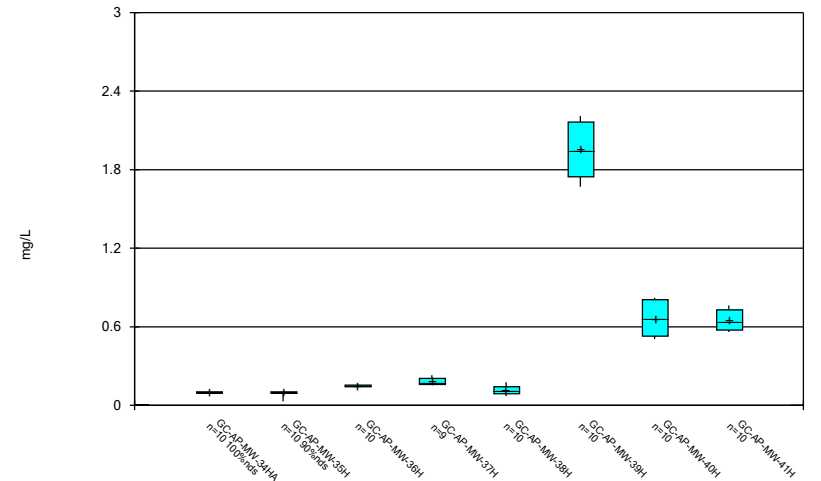
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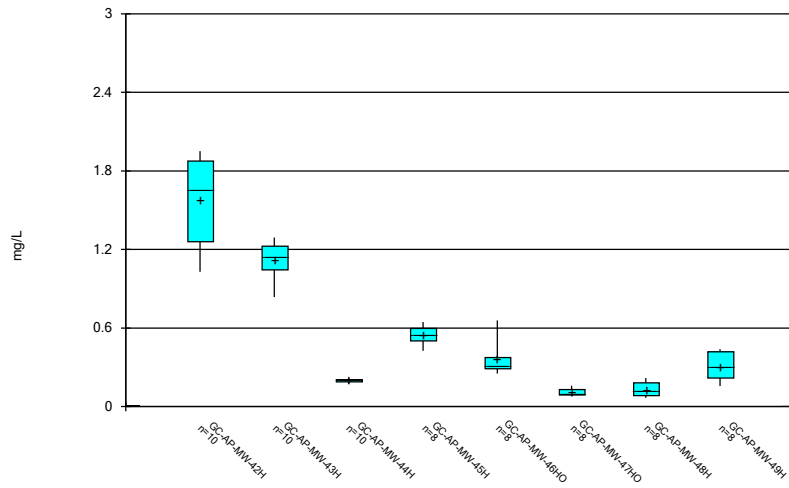
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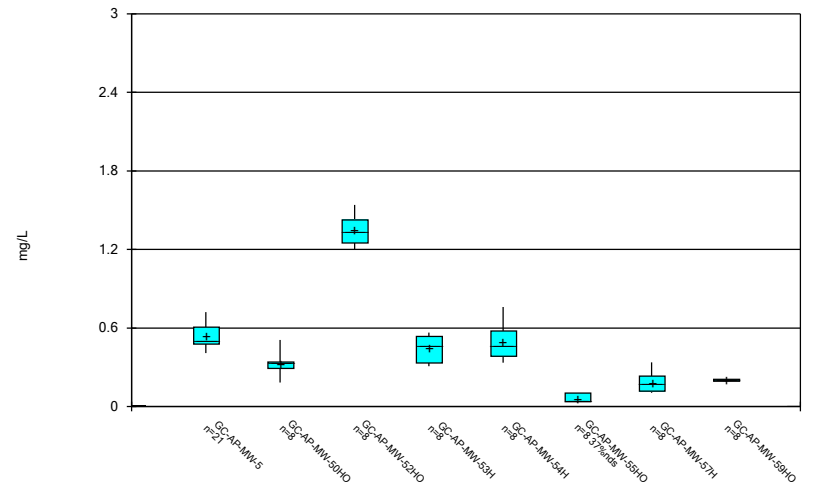
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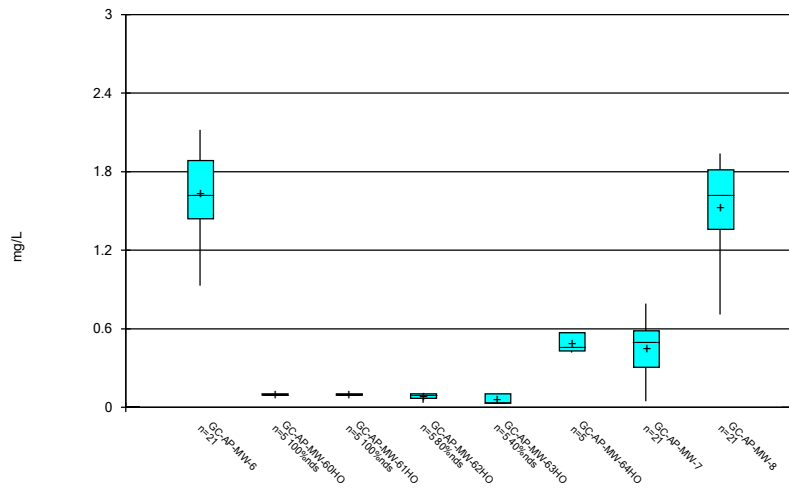
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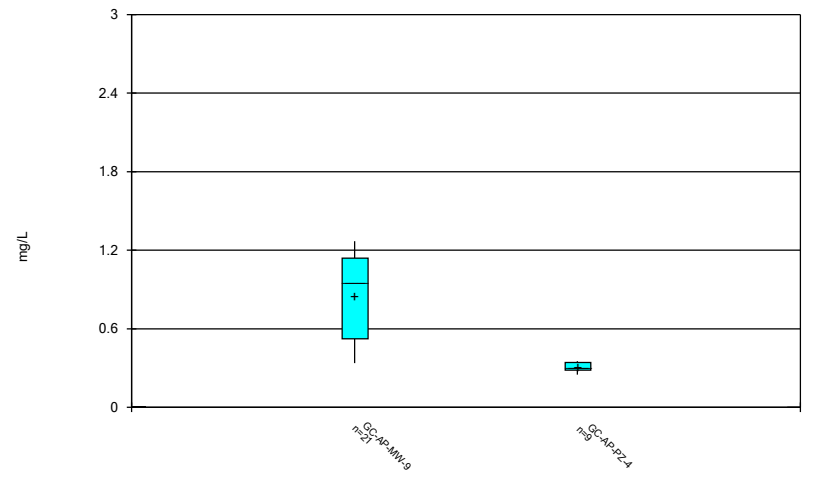
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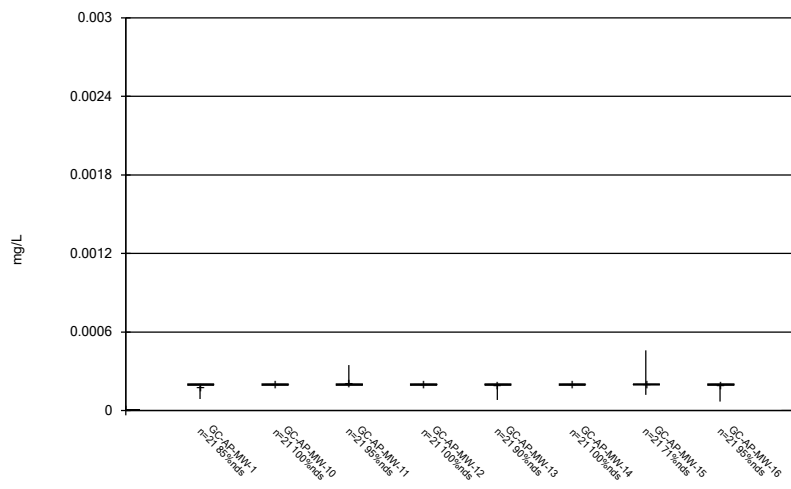
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### Box & Whiskers Plot



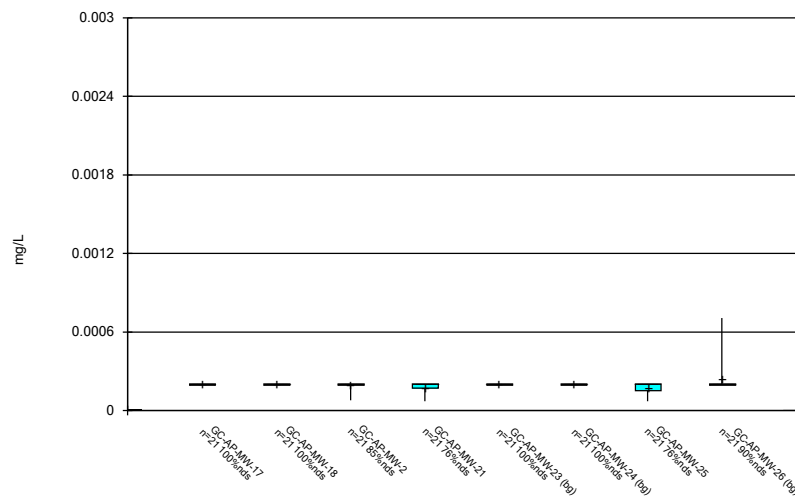
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### Box & Whiskers Plot



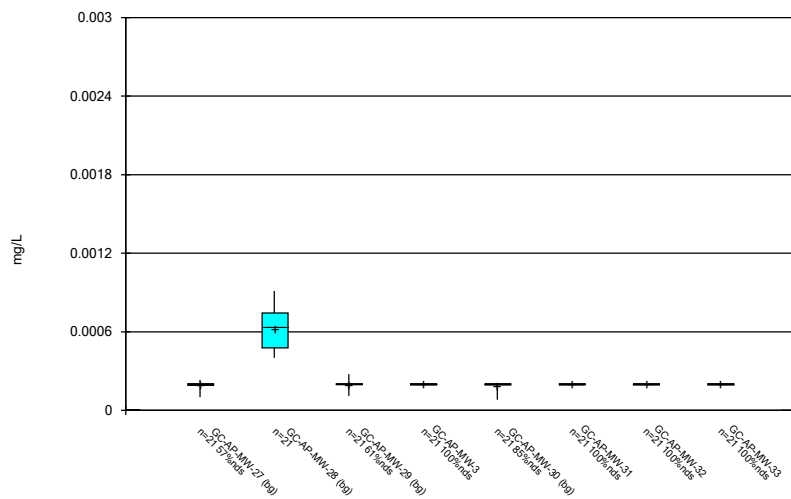
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### Box & Whiskers Plot



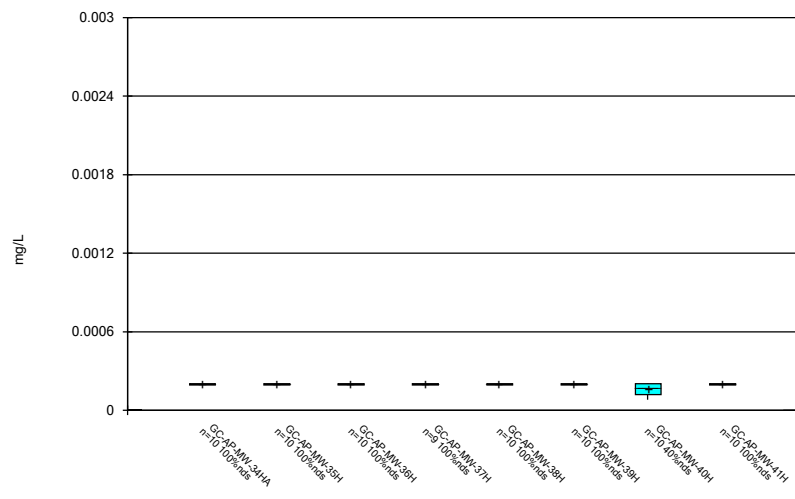
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### Box & Whiskers Plot



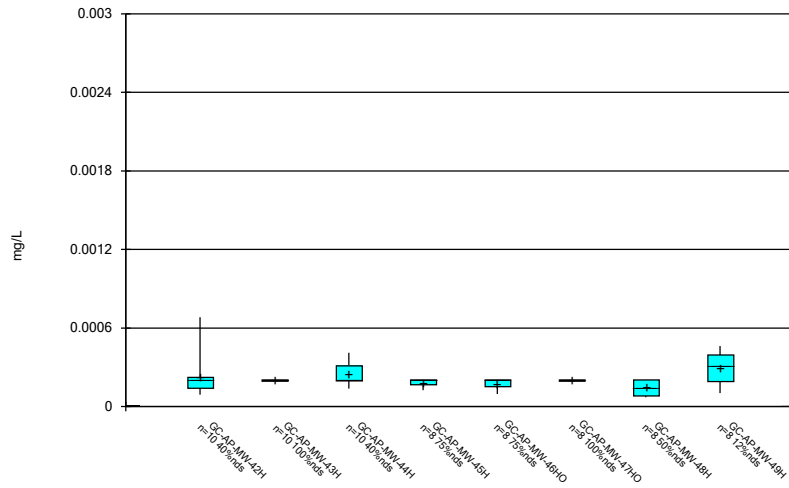
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### Box & Whiskers Plot



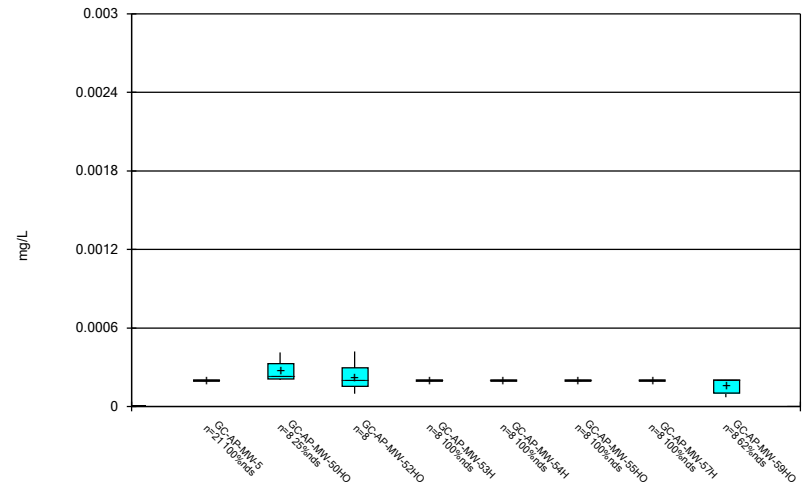
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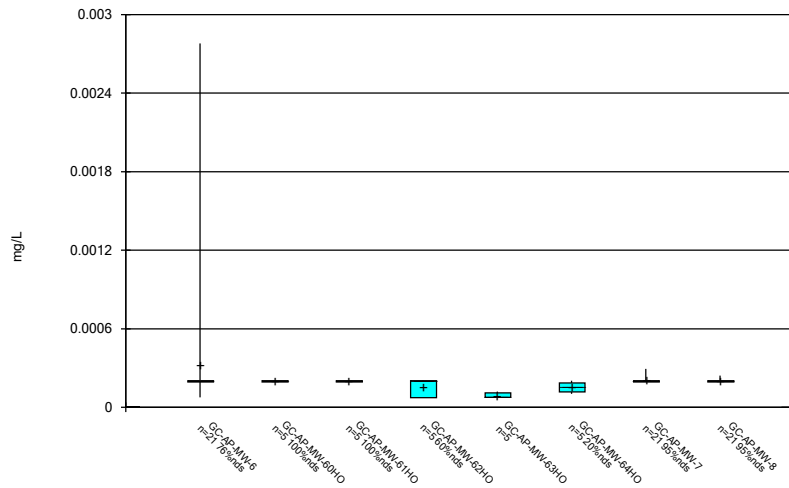
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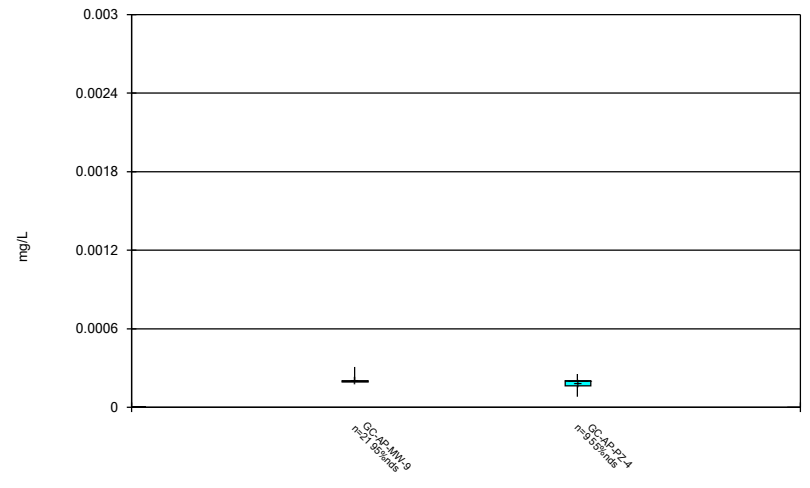
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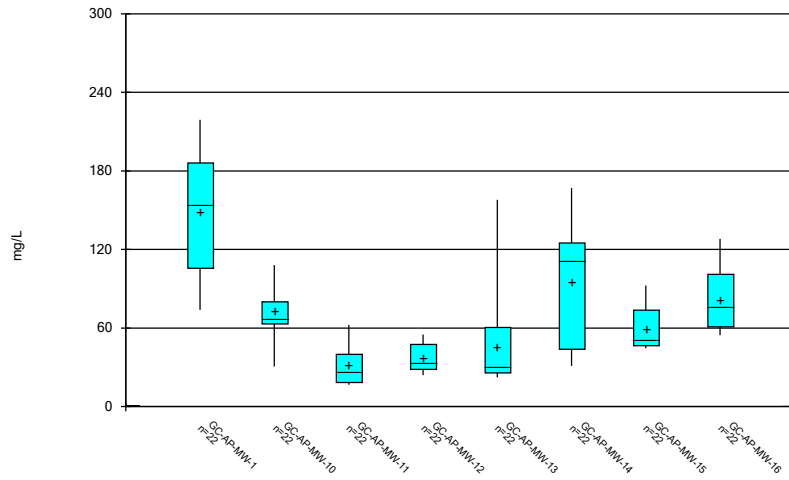
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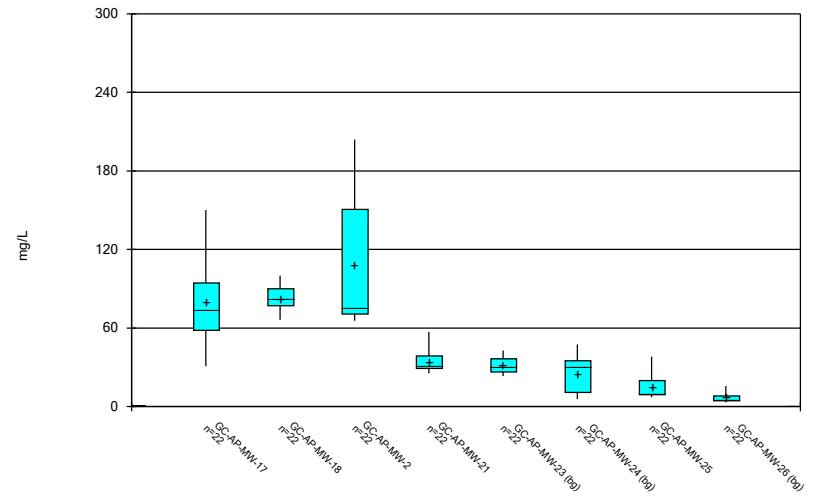
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### Box & Whiskers Plot



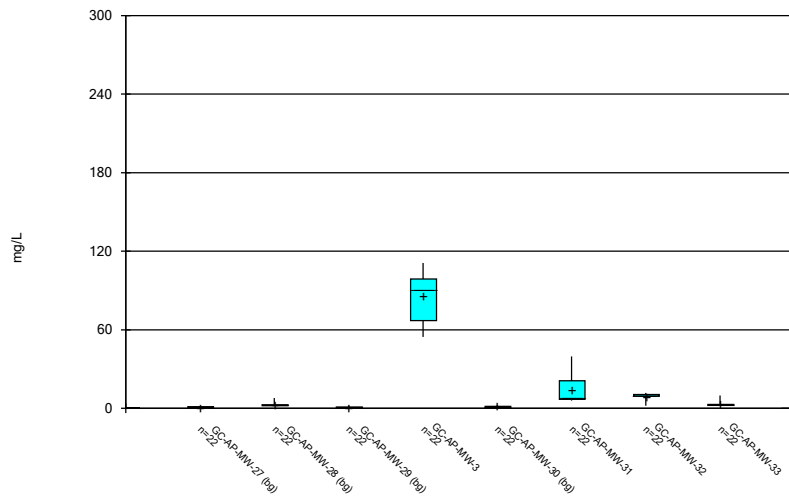
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### Box & Whiskers Plot



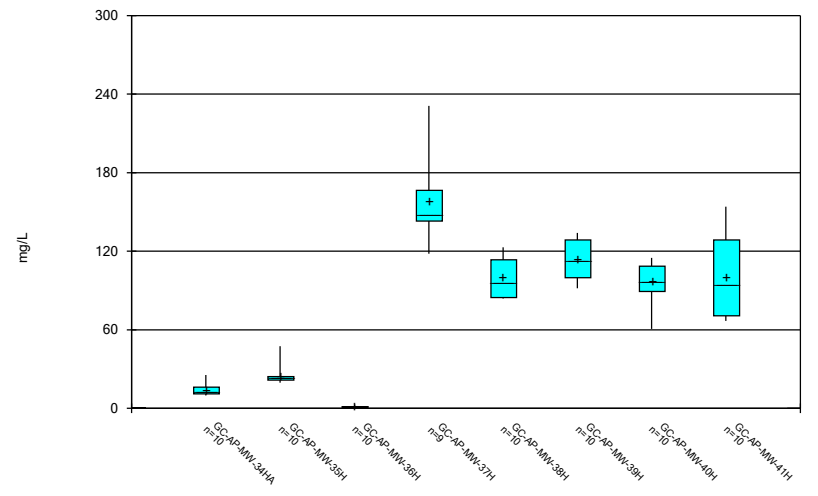
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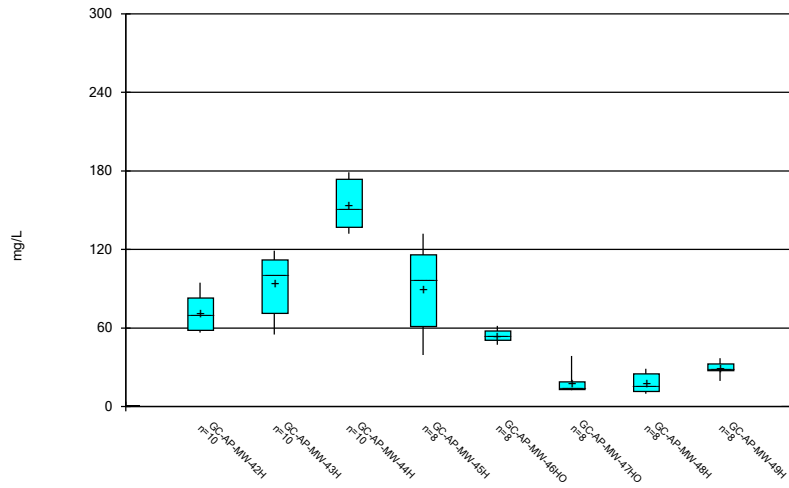
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### Box & Whiskers Plot



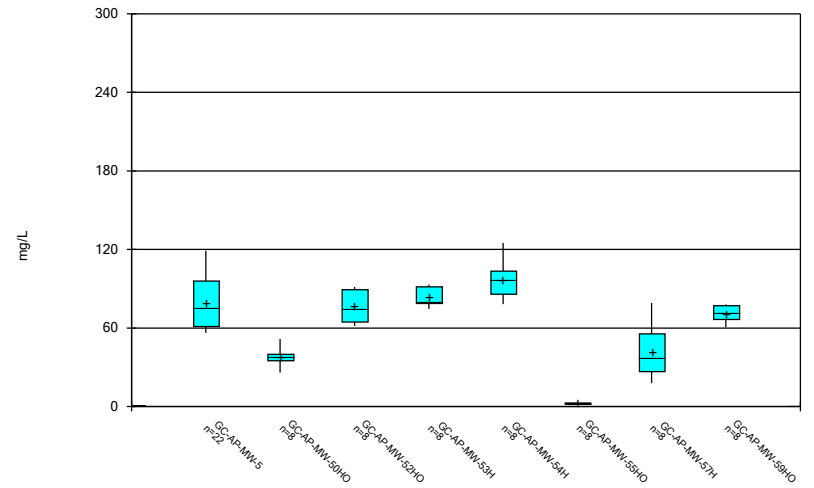
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### Box & Whiskers Plot



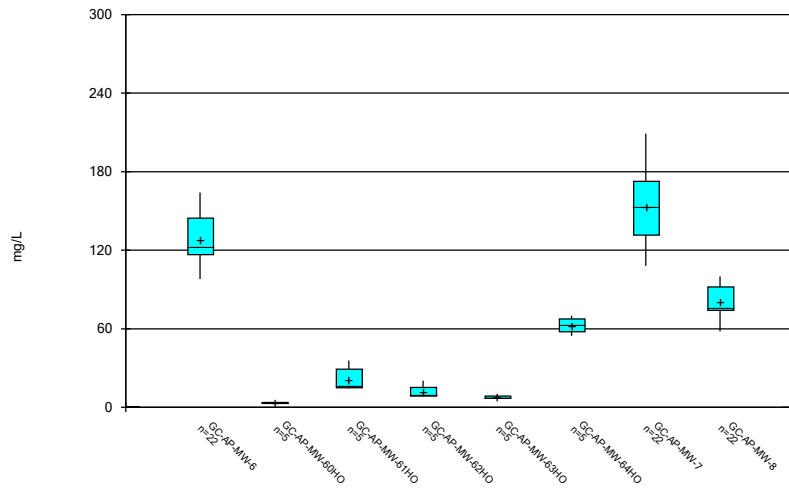
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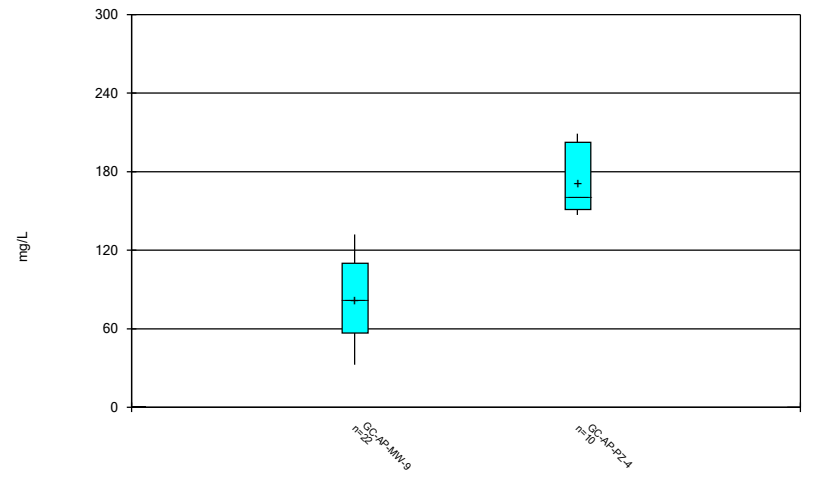
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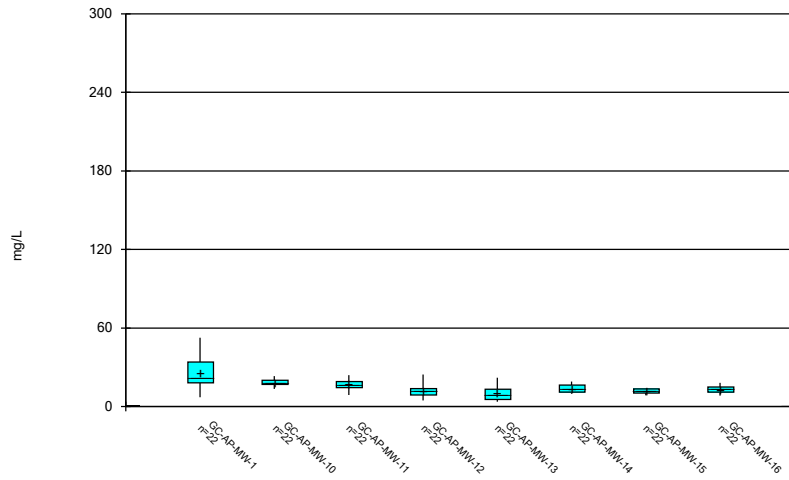
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### Box & Whiskers Plot



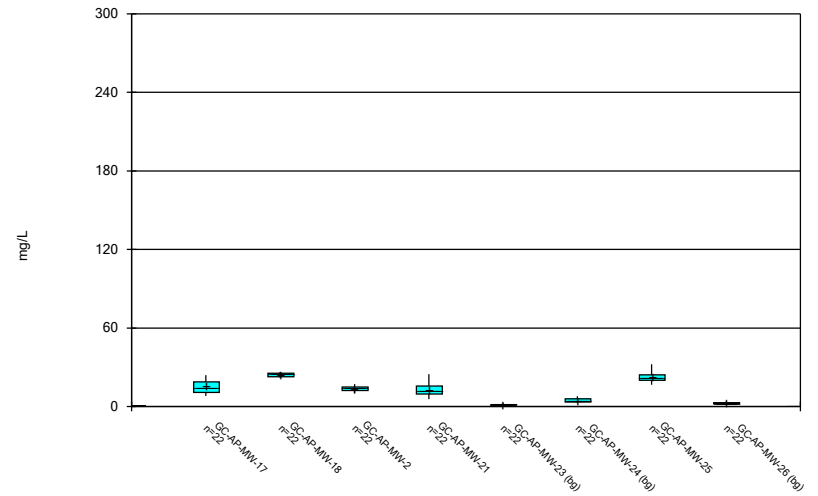
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### Box & Whiskers Plot



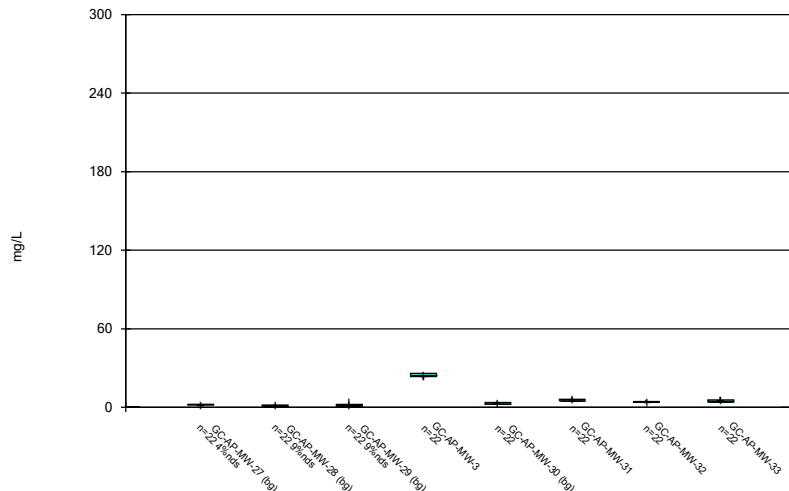
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### Box & Whiskers Plot



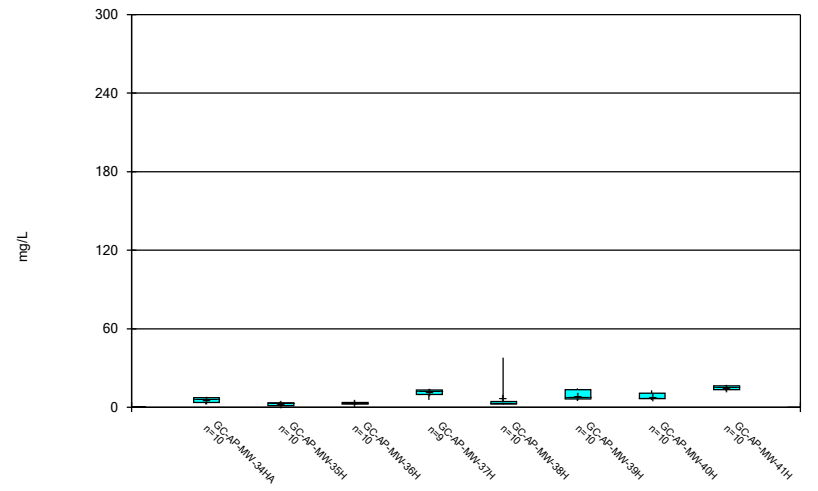
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### Box & Whiskers Plot



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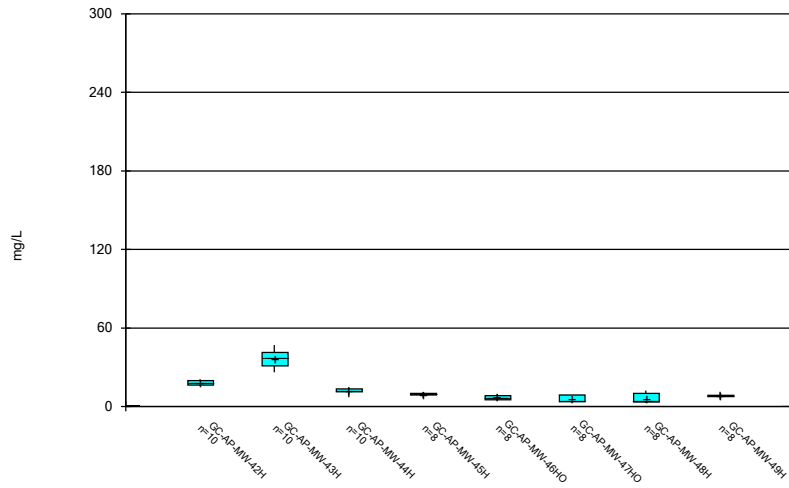
### Box & Whiskers Plot



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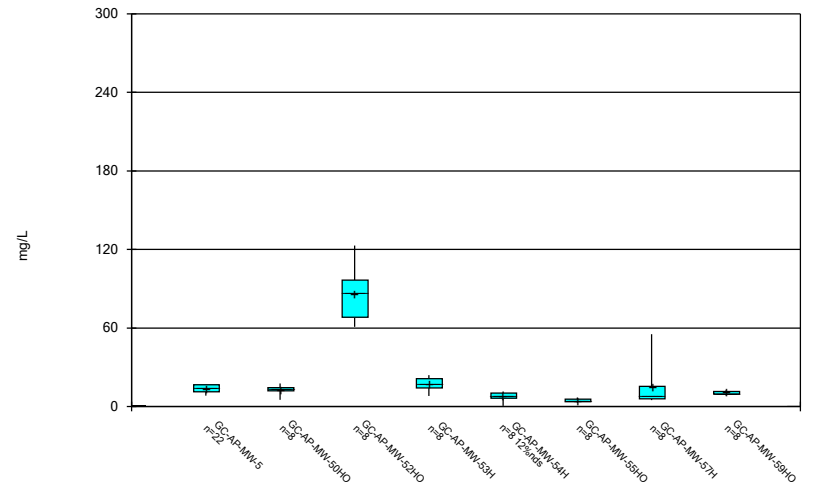


Box & Whiskers Plot



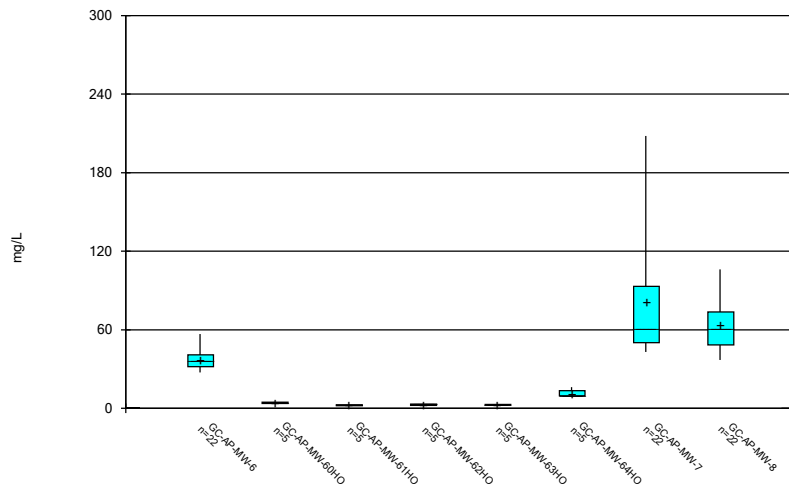
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Box & Whiskers Plot



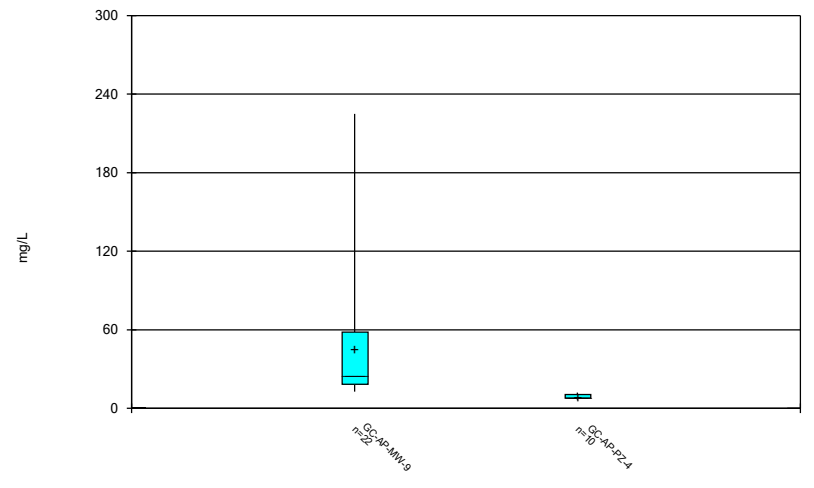
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Box & Whiskers Plot



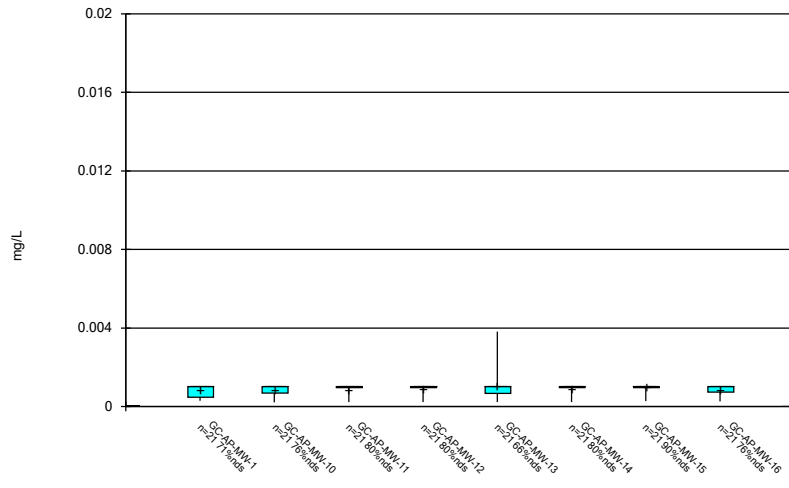
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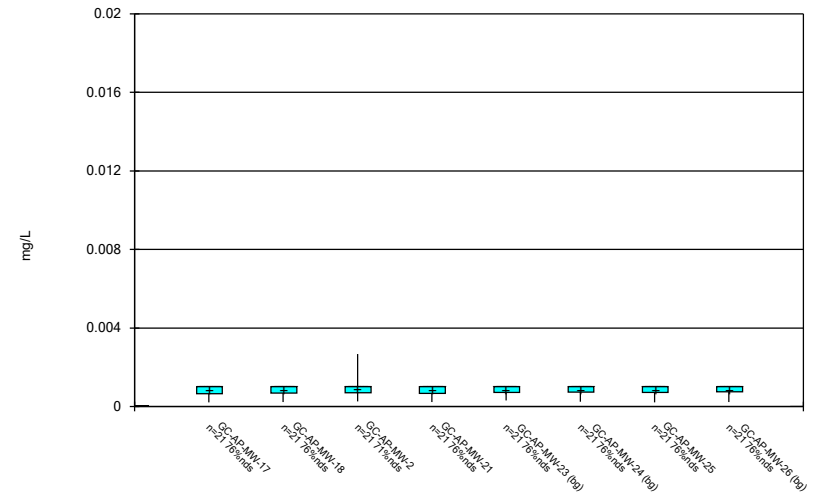
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### Box & Whiskers Plot



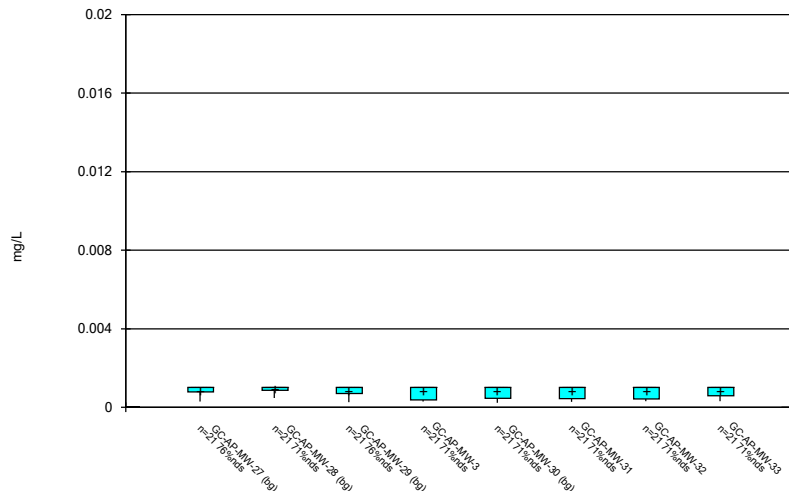
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### Box & Whiskers Plot



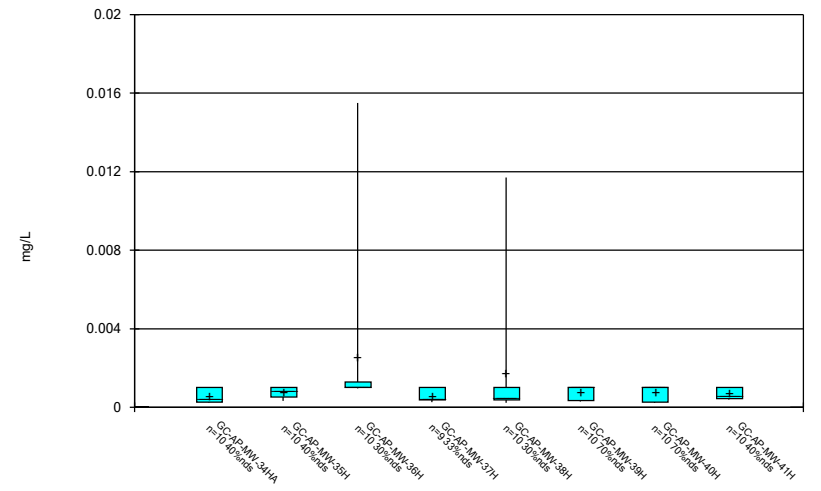
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



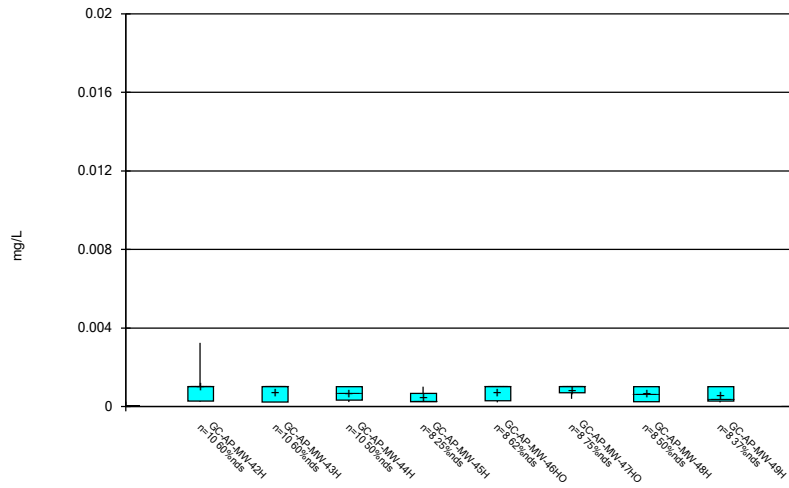
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### Box & Whiskers Plot



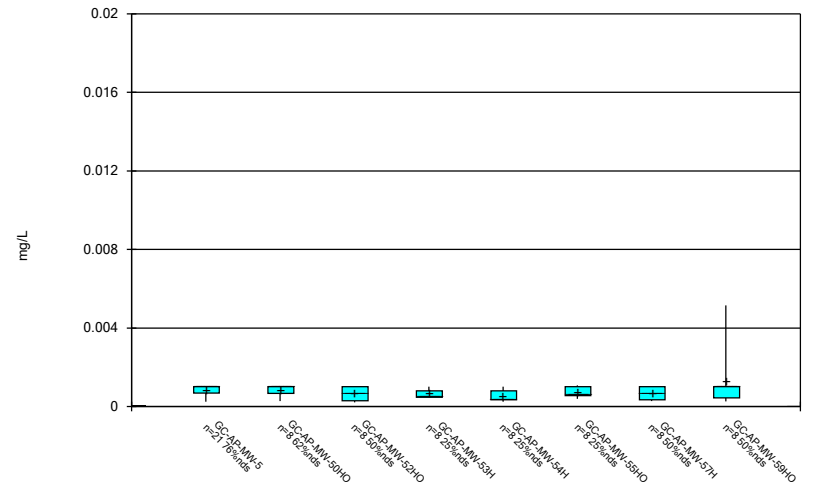
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### Box & Whiskers Plot



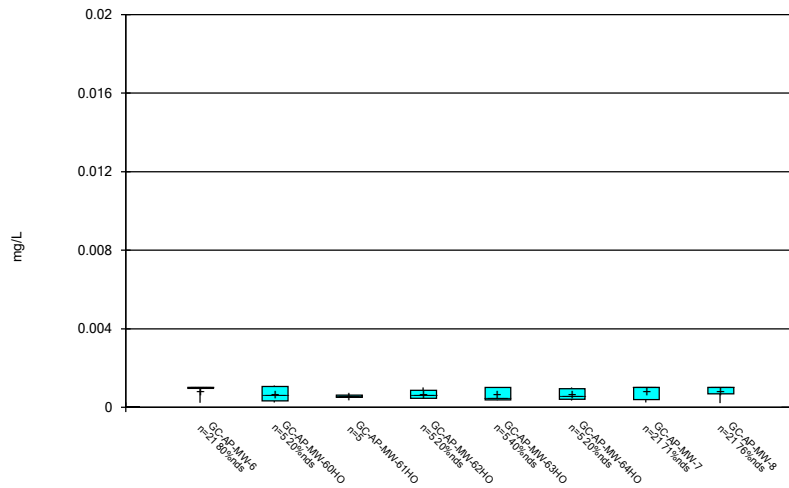
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### Box & Whiskers Plot



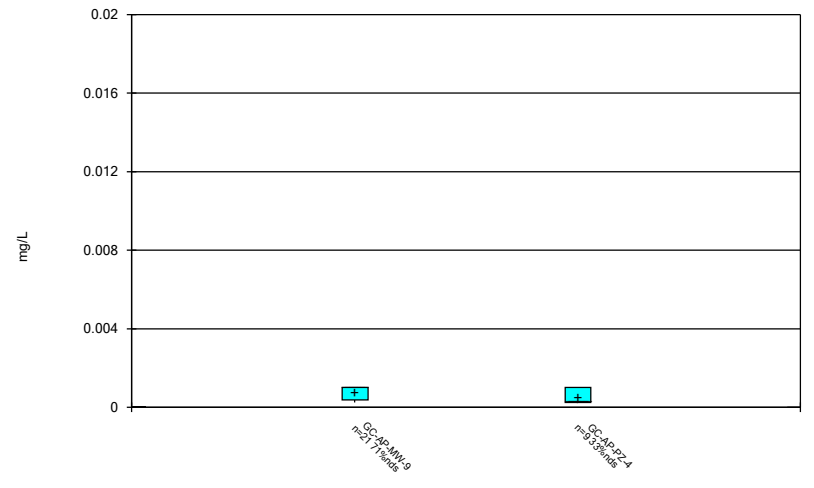
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### Box & Whiskers Plot



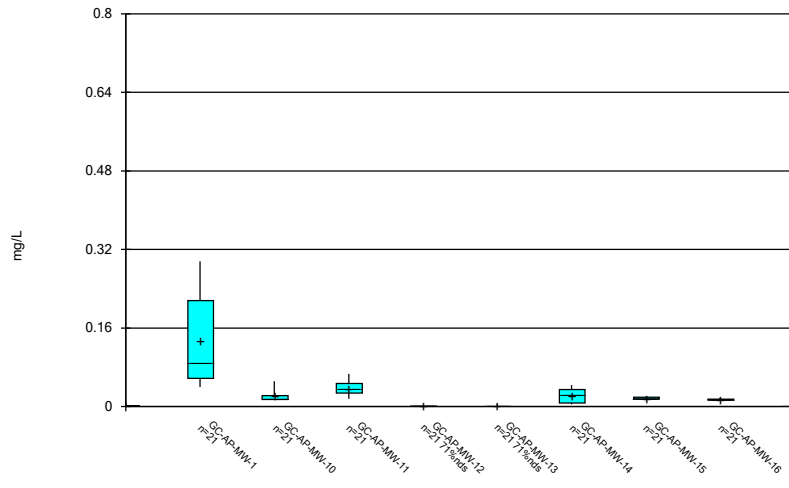
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### Box & Whiskers Plot



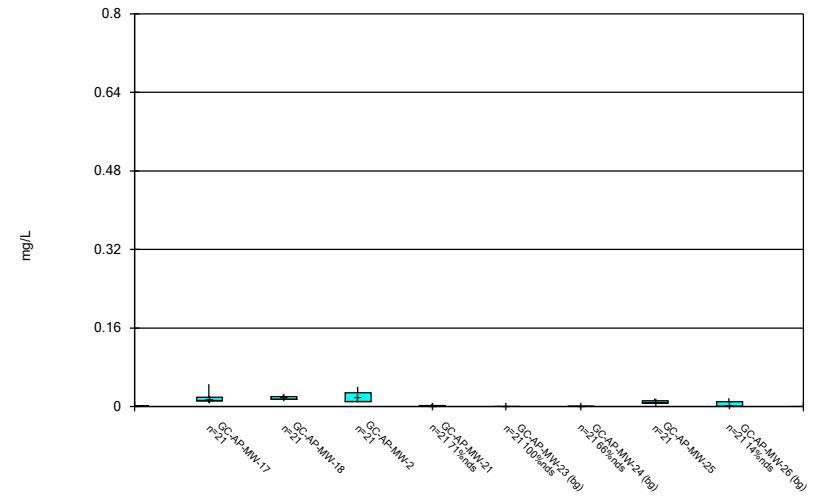
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### Box & Whiskers Plot



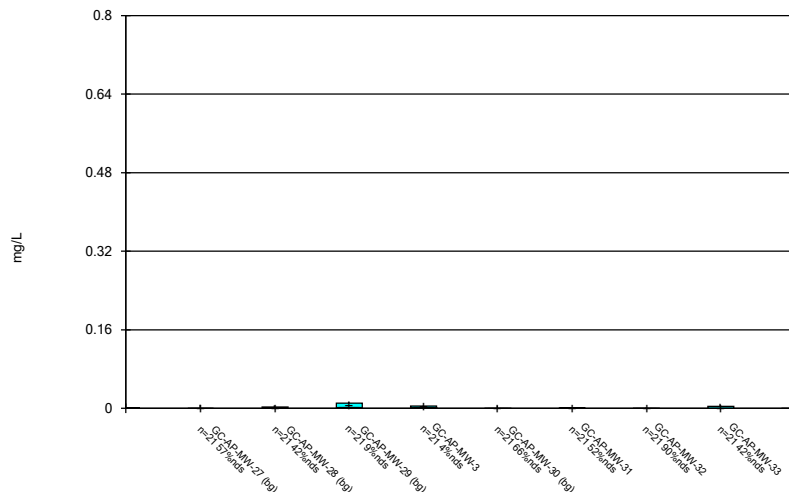
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### Box & Whiskers Plot



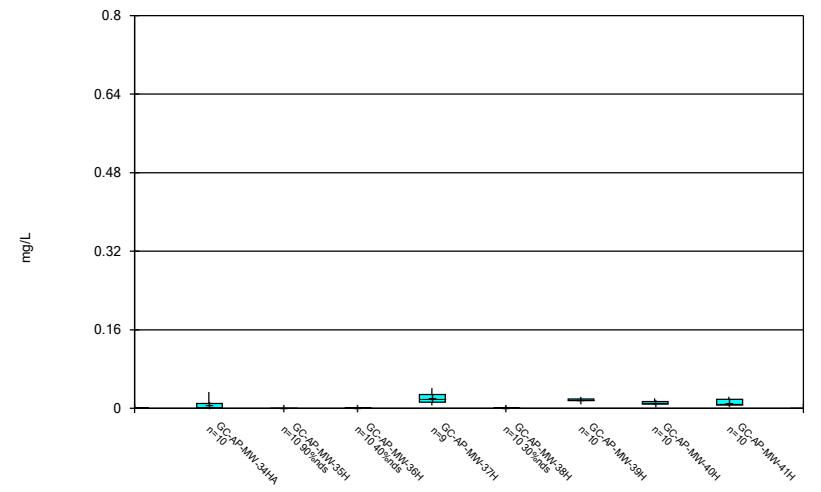
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### Box & Whiskers Plot



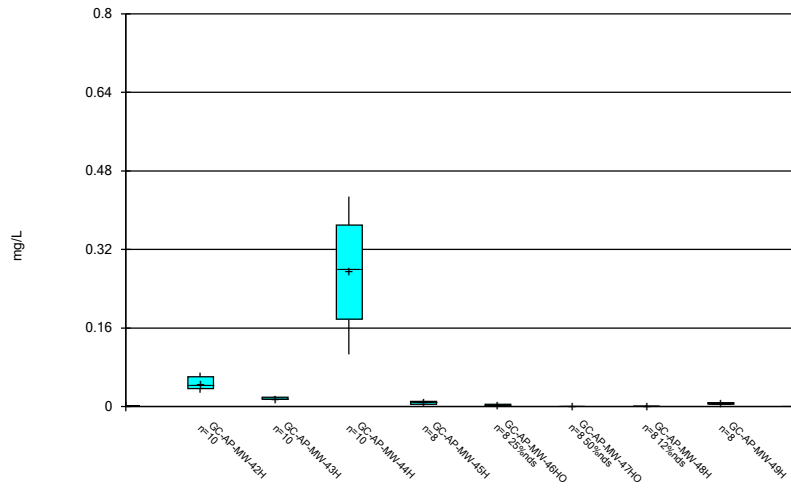
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### Box & Whiskers Plot



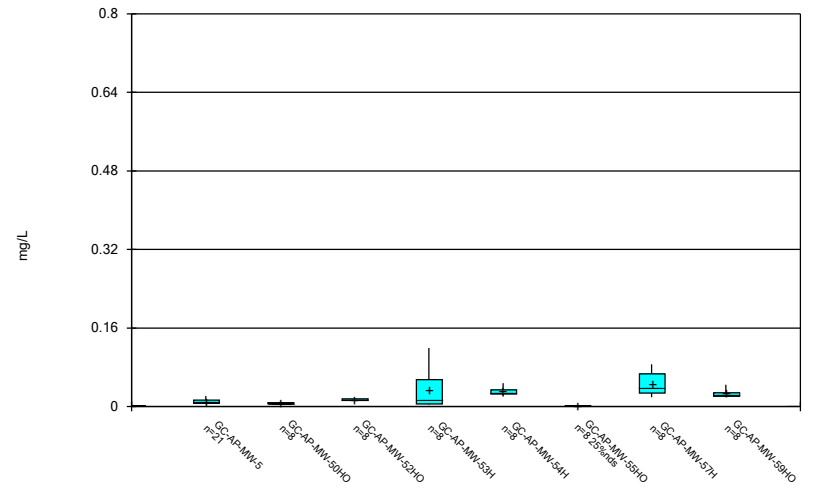
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### Box & Whiskers Plot



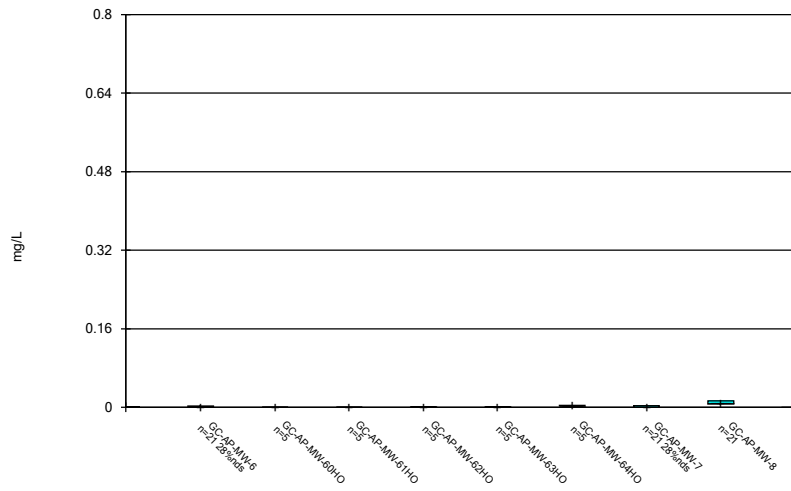
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### Box & Whiskers Plot



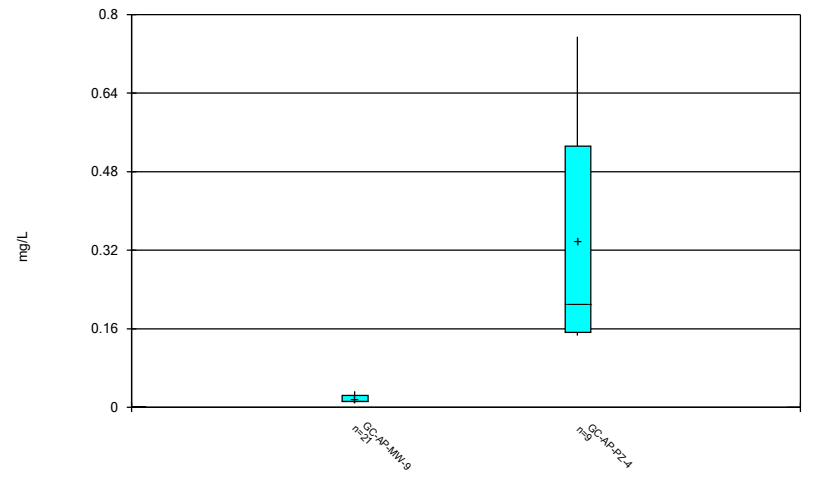
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### Box & Whiskers Plot



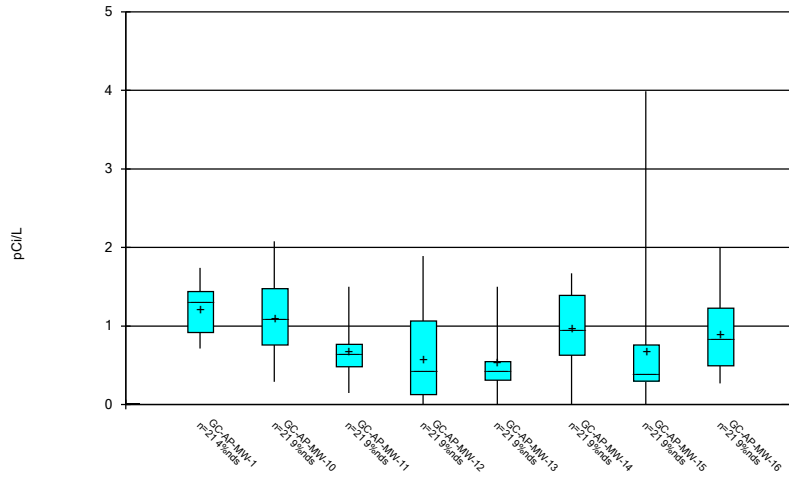
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### Box & Whiskers Plot



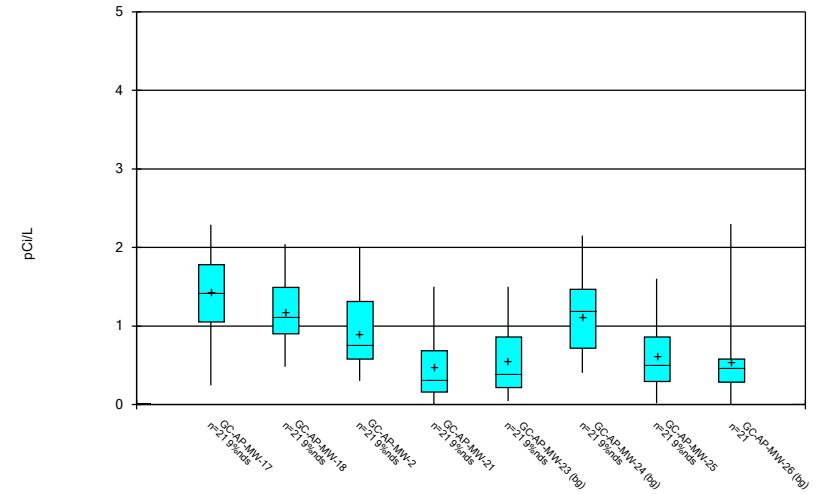
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### Box & Whiskers Plot



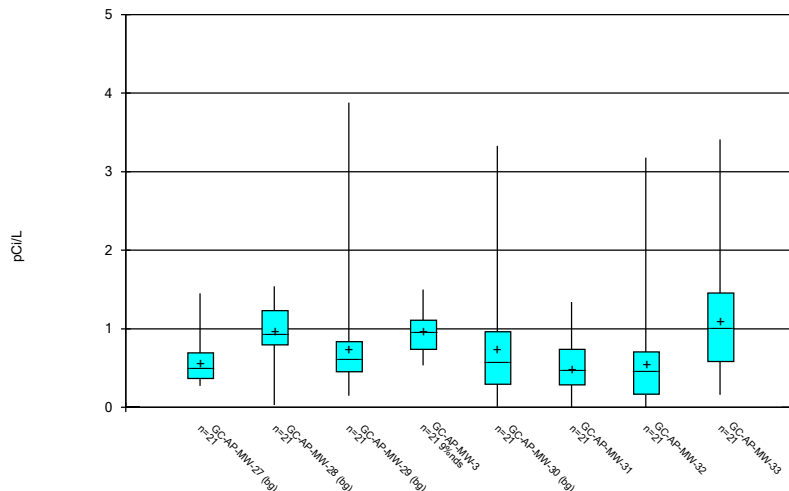
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### Box & Whiskers Plot



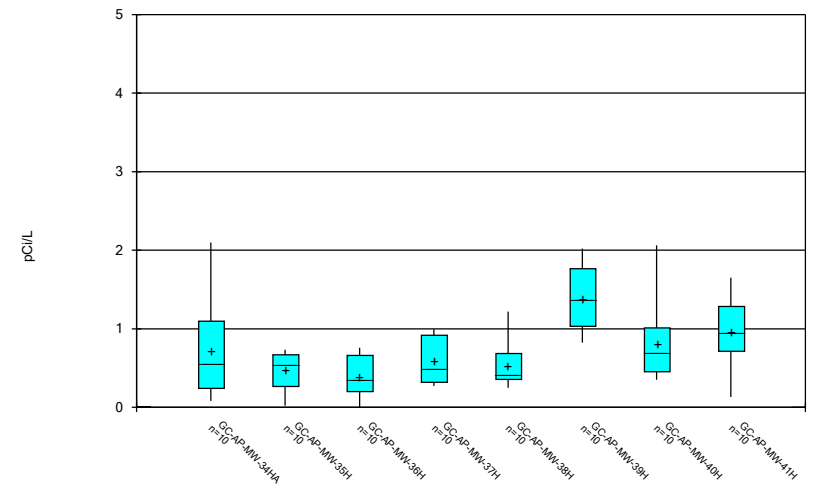
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### Box & Whiskers Plot



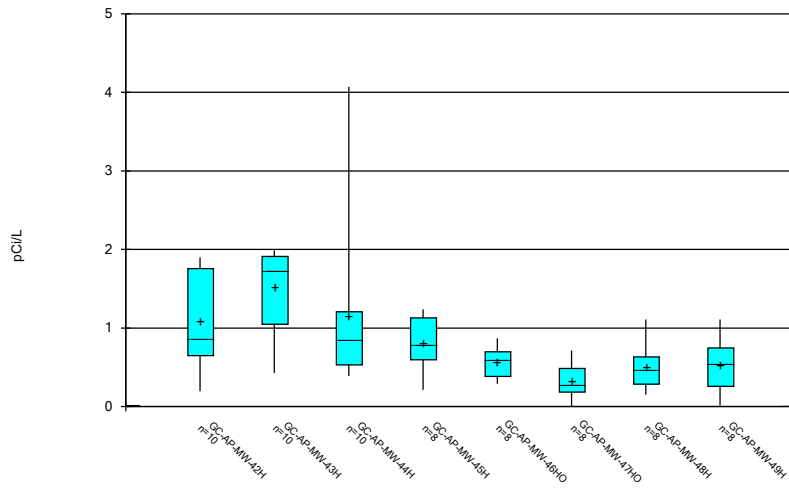
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### Box & Whiskers Plot



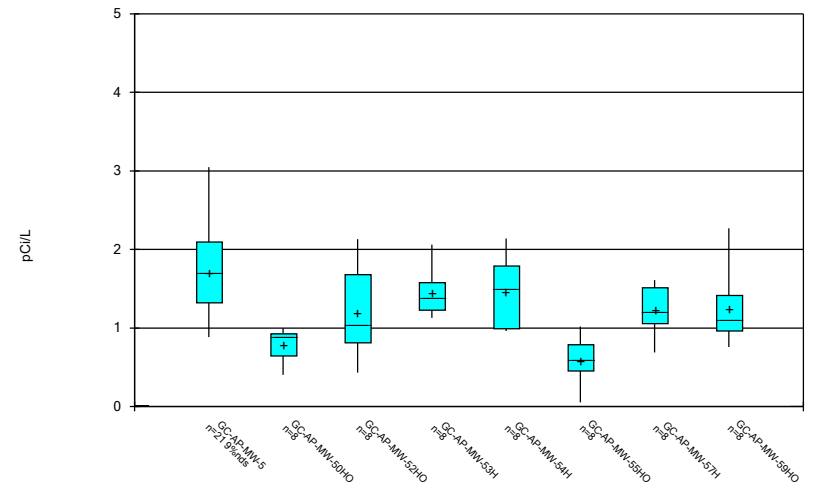
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### Box & Whiskers Plot



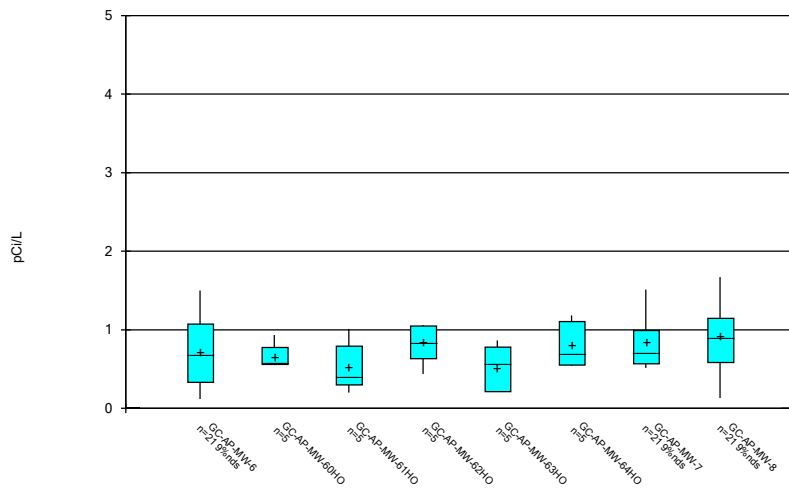
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### Box & Whiskers Plot



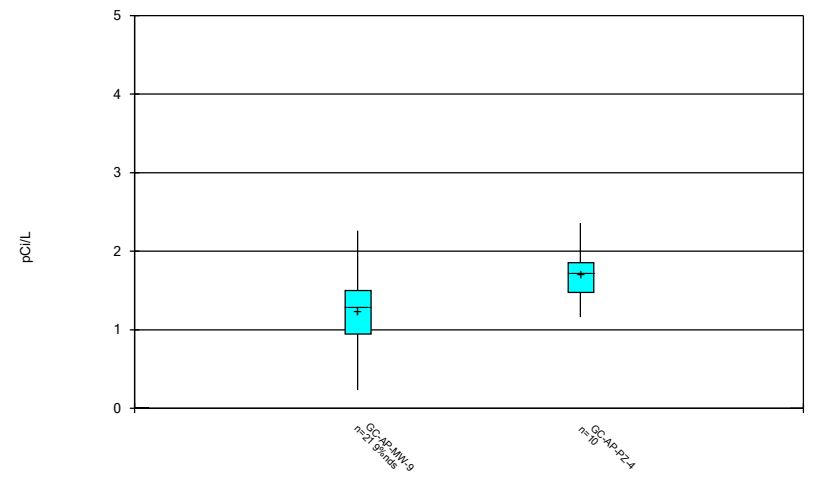
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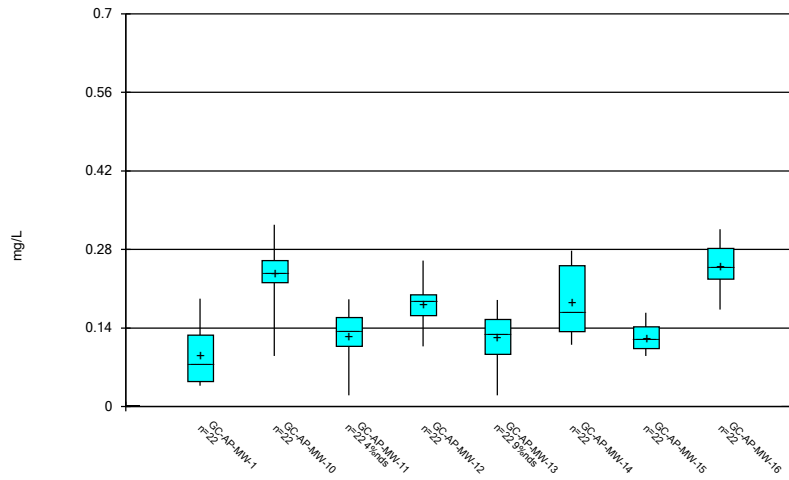
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### Box & Whiskers Plot



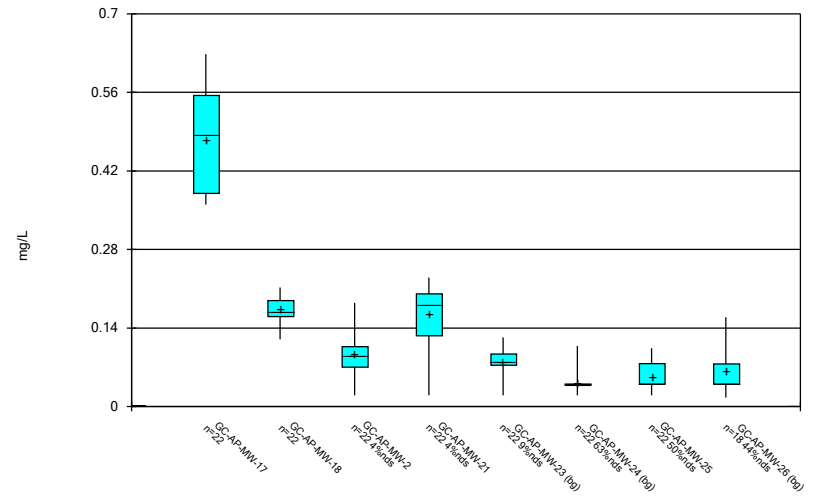
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### Box & Whiskers Plot



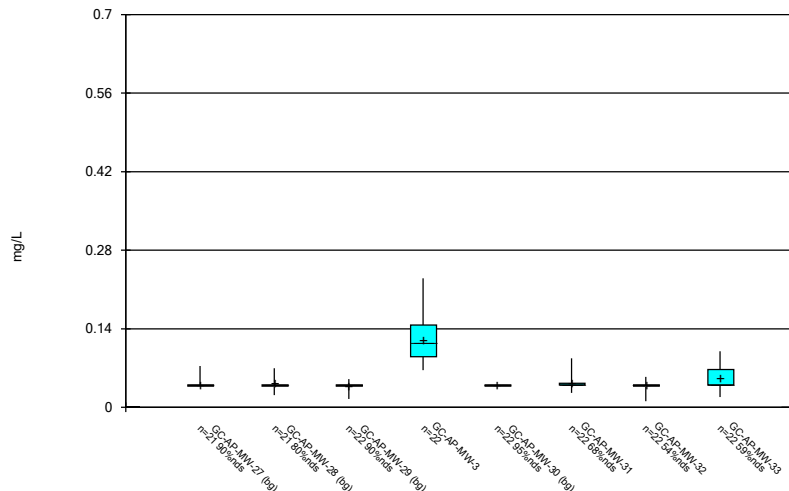
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### Box & Whiskers Plot



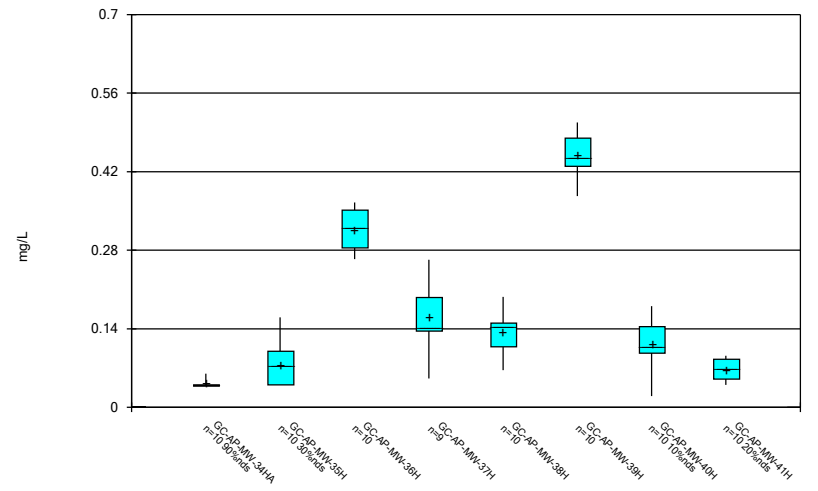
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### Box & Whiskers Plot



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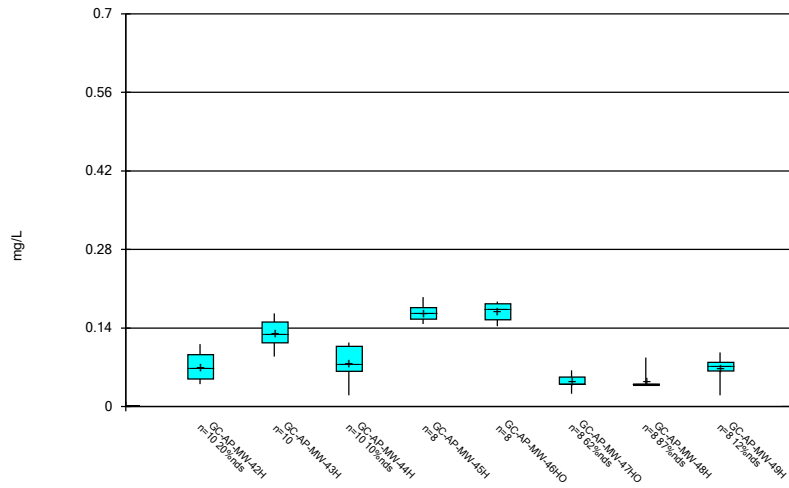
### Box & Whiskers Plot



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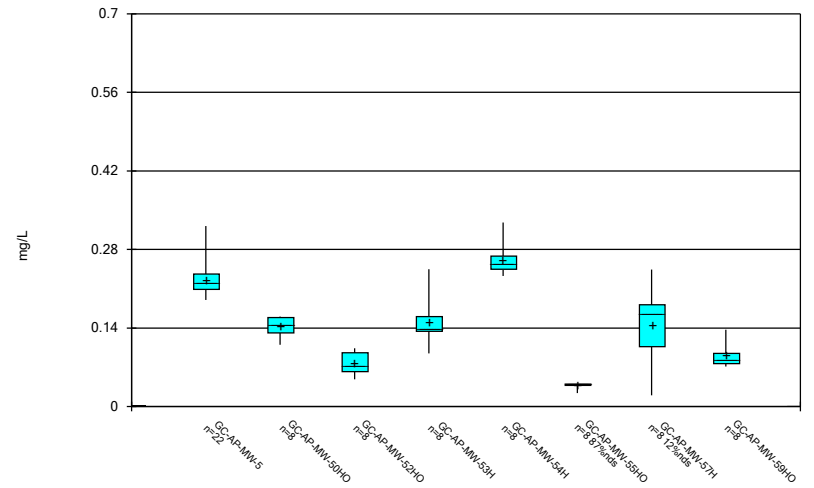


### Box & Whiskers Plot



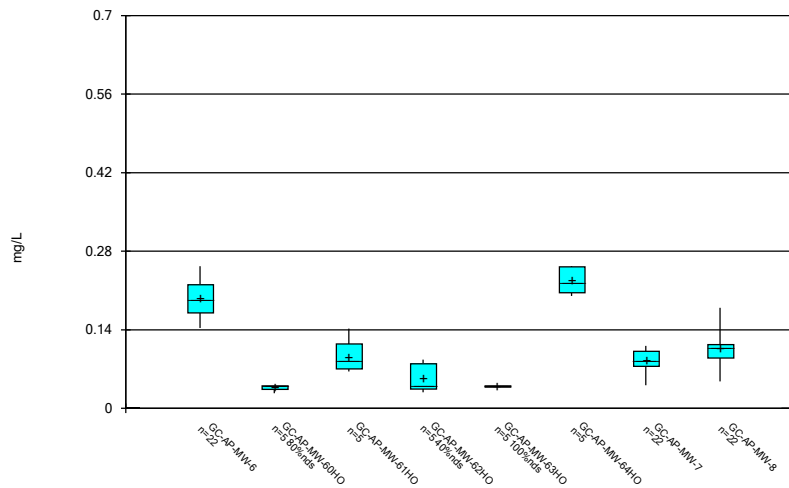
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### Box & Whiskers Plot



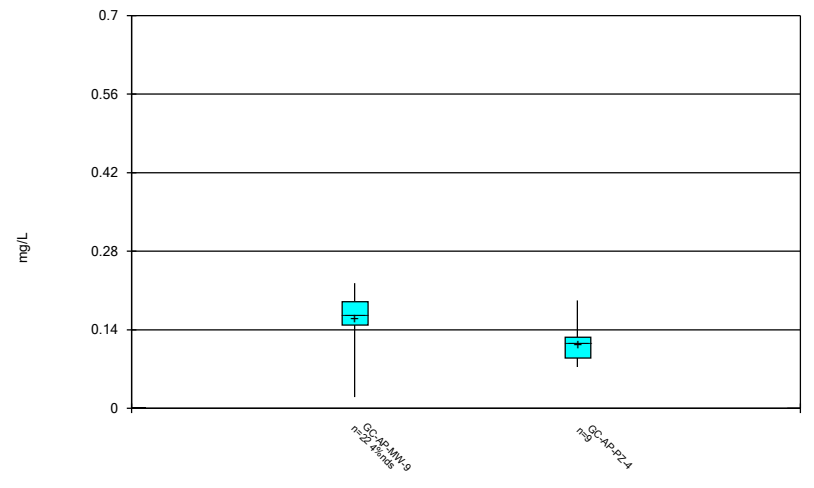
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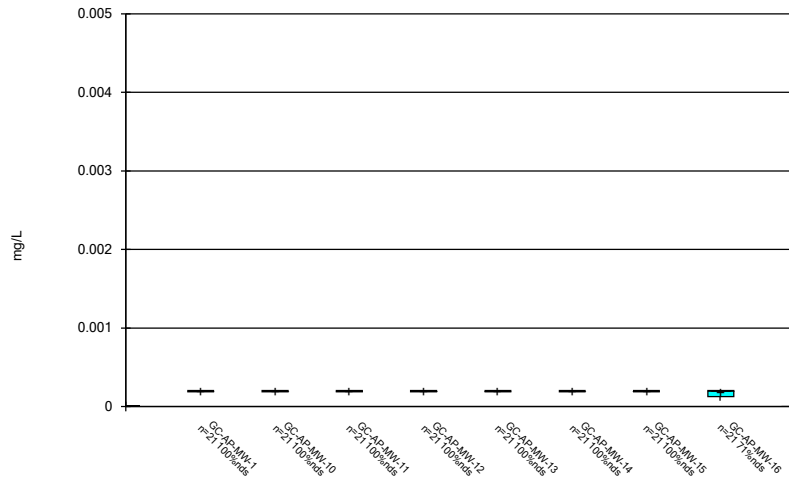
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### Box & Whiskers Plot



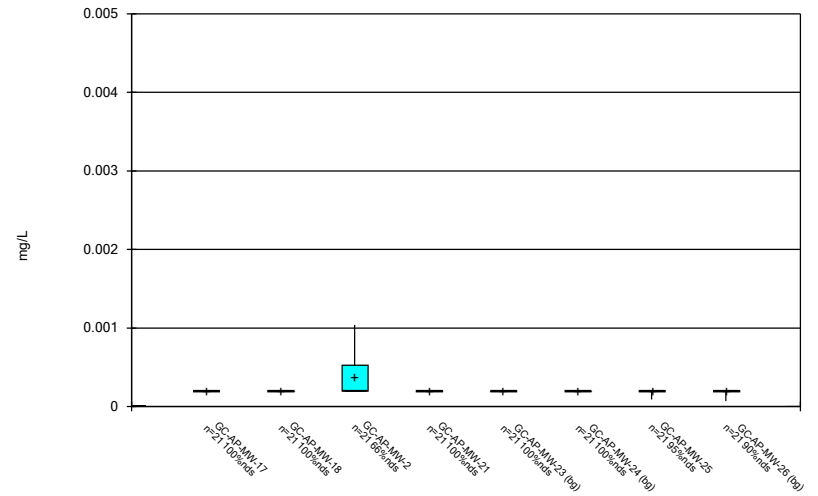
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### Box & Whiskers Plot



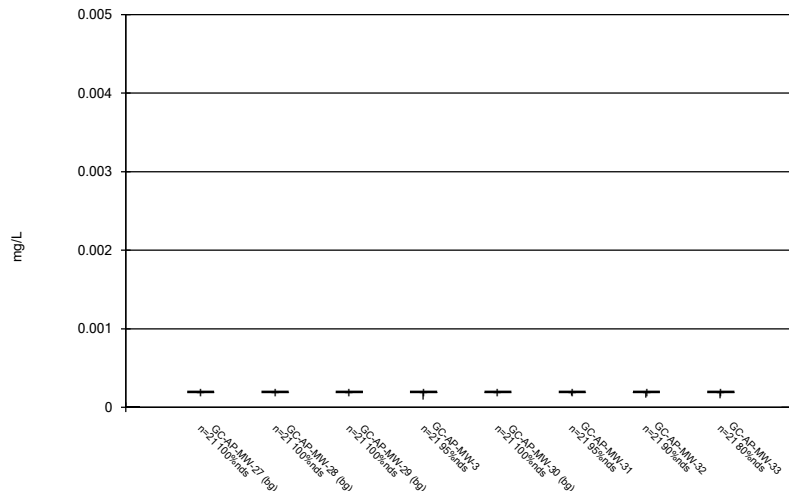
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### Box & Whiskers Plot



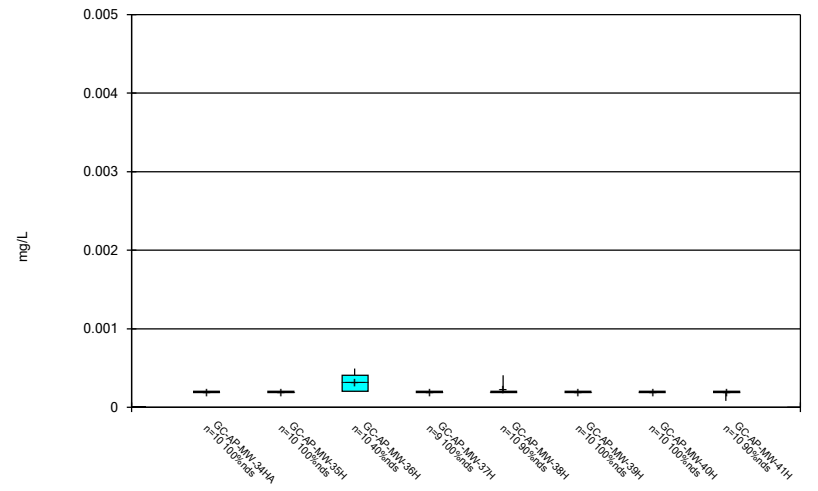
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### Box & Whiskers Plot



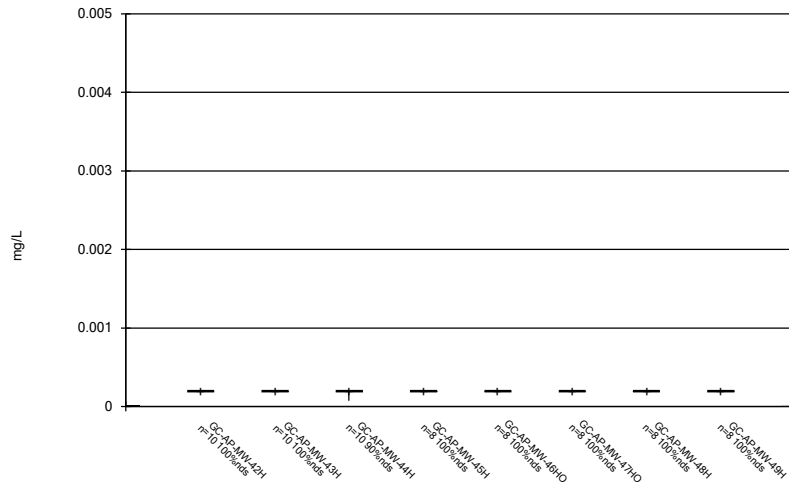
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### Box & Whiskers Plot



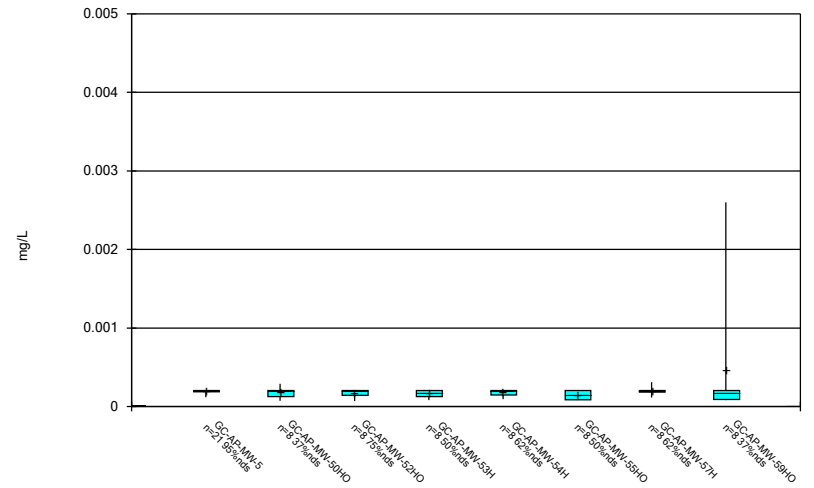
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Box & Whiskers Plot



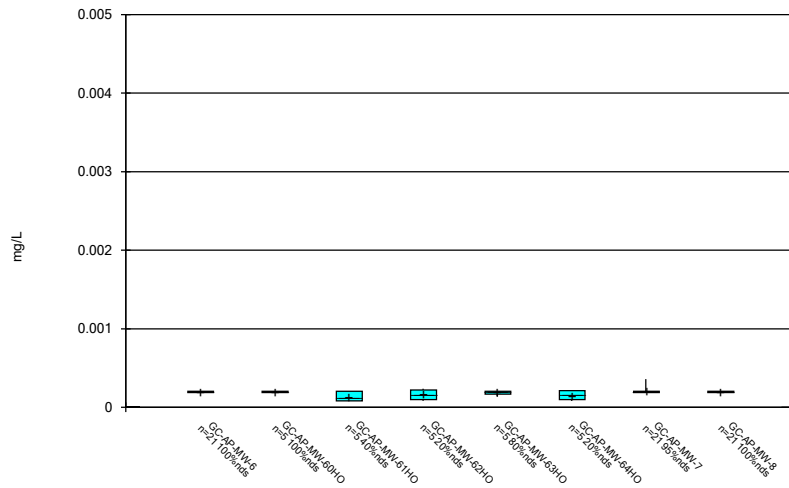
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Box & Whiskers Plot



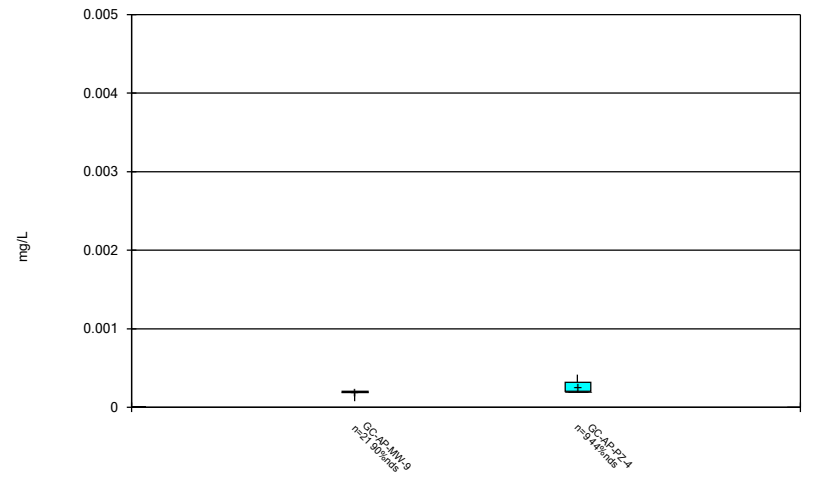
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Box & Whiskers Plot



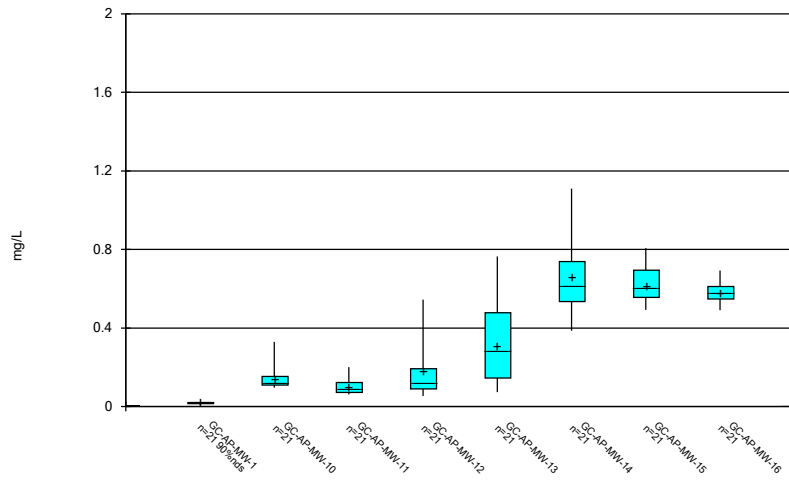
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Box & Whiskers Plot



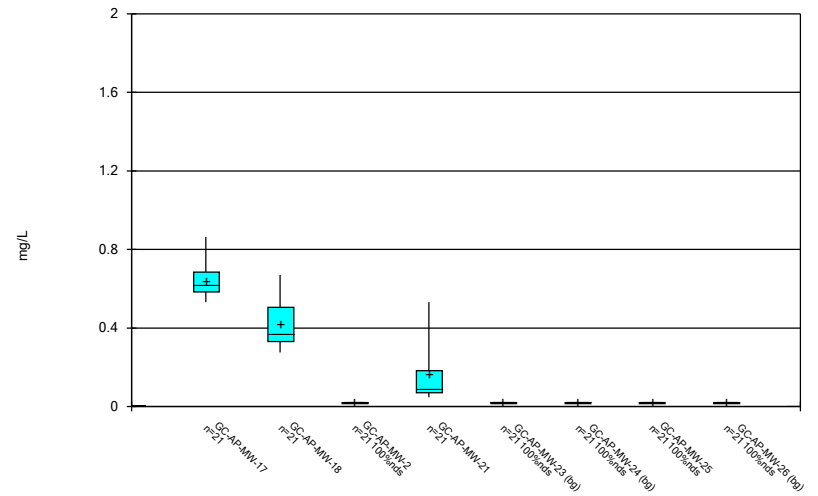
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### Box & Whiskers Plot



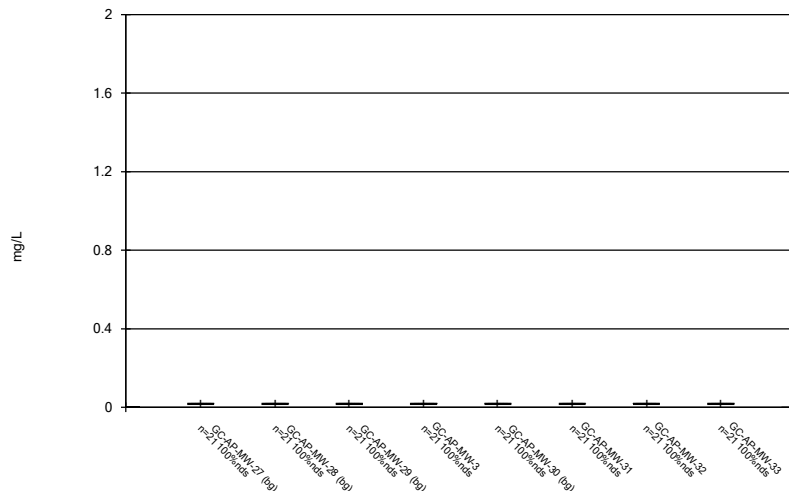
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### Box & Whiskers Plot



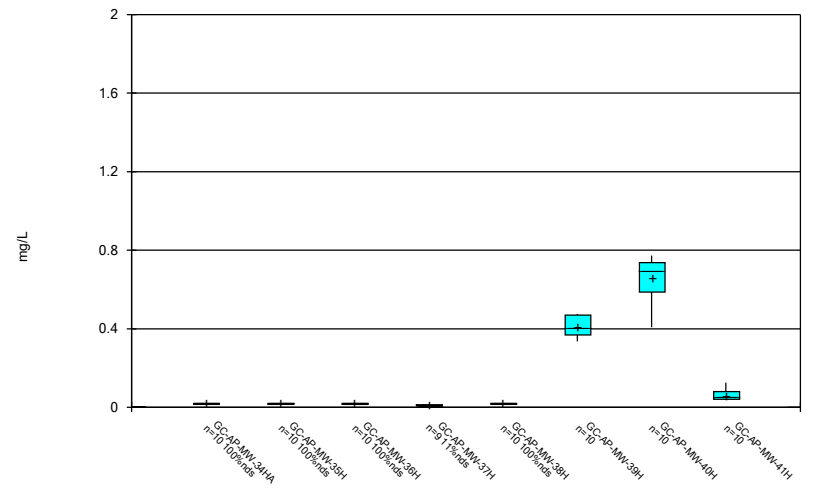
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### Box & Whiskers Plot



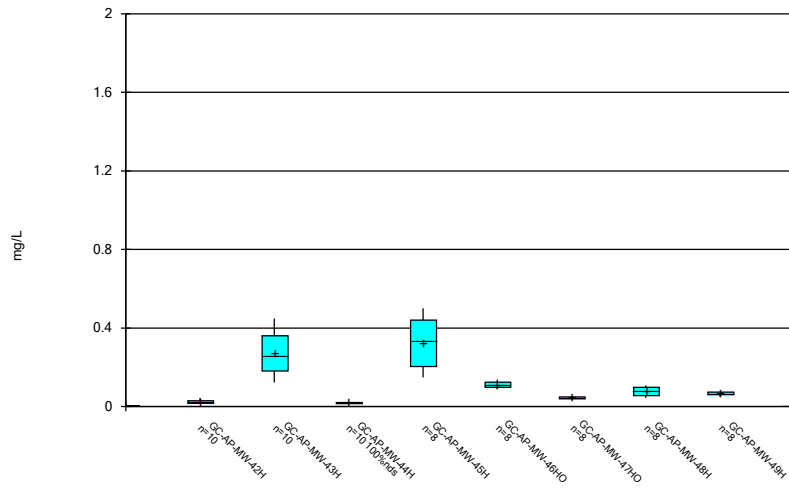
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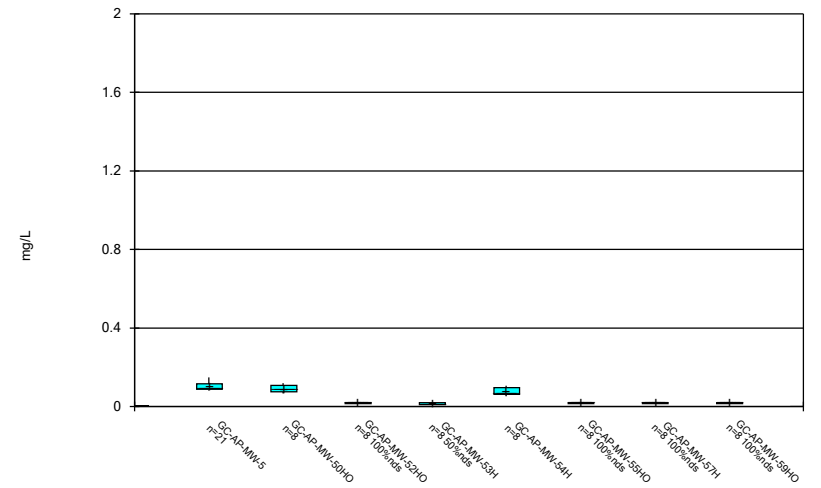
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### Box & Whiskers Plot



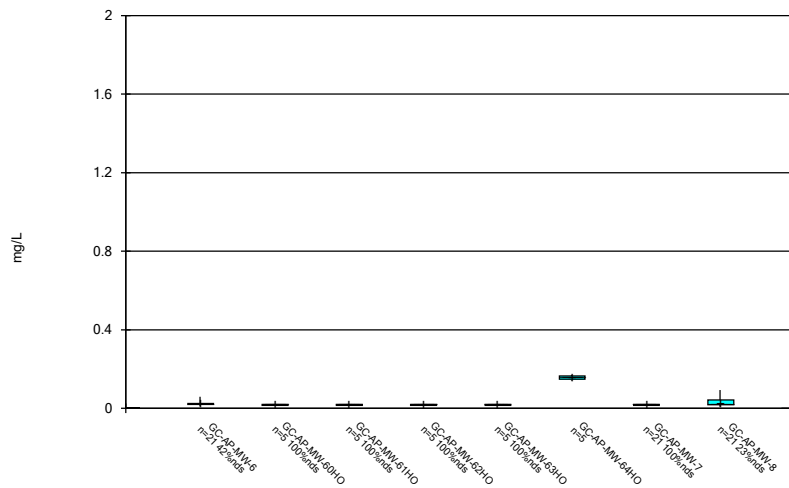
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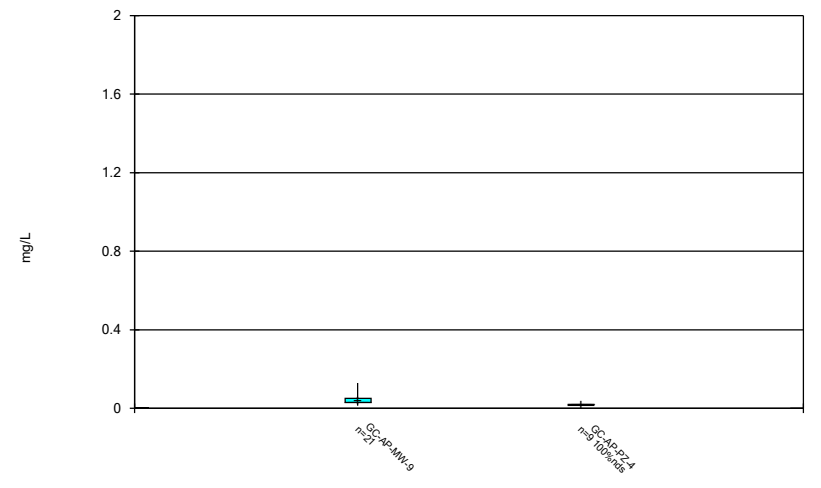
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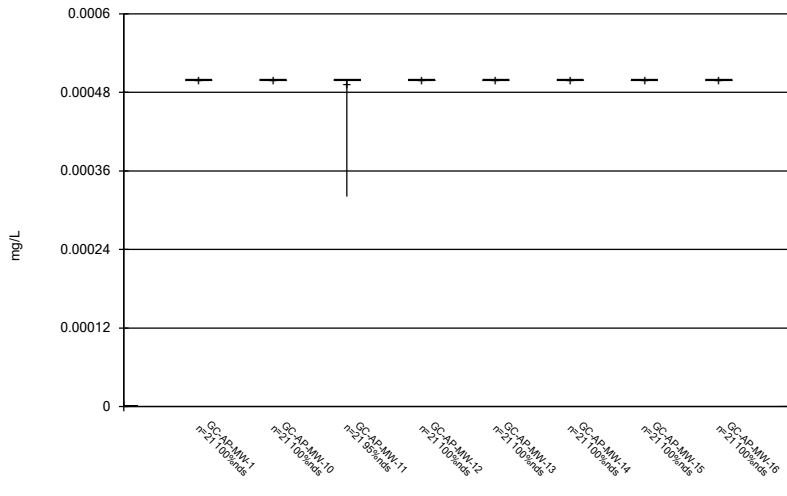
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### Box & Whiskers Plot



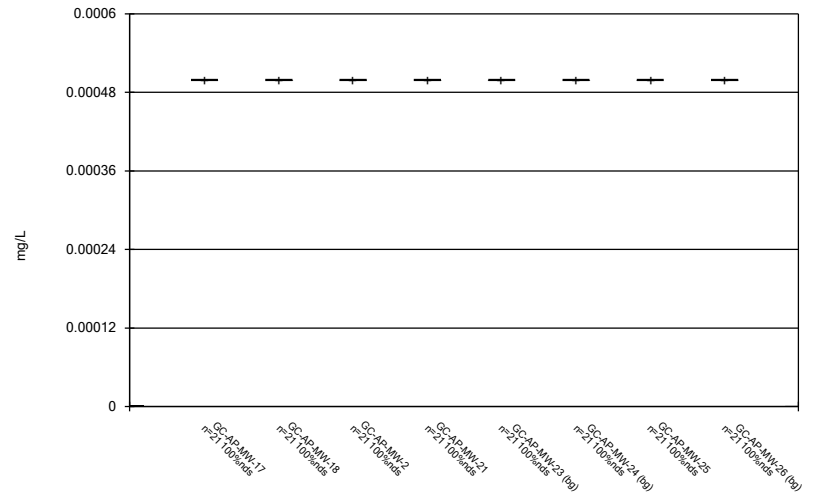
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### Box & Whiskers Plot



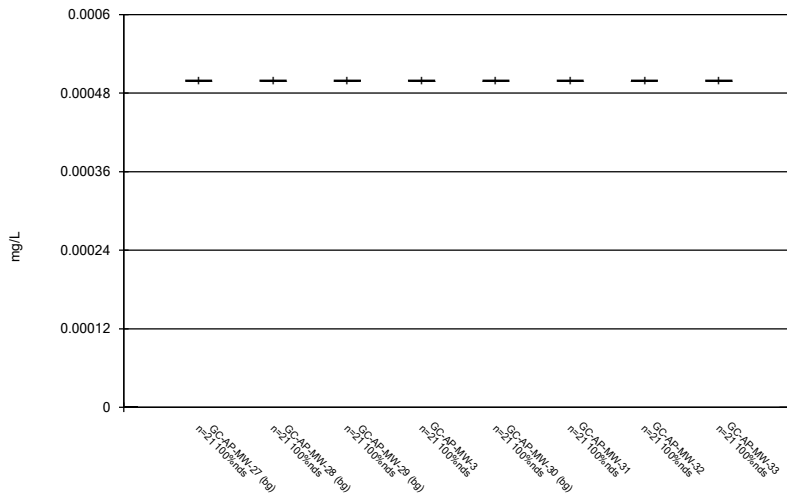
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### Box & Whiskers Plot



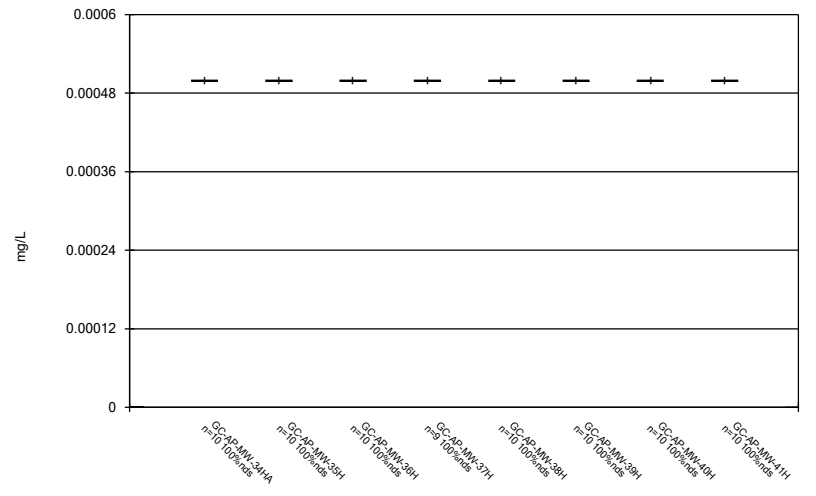
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### Box & Whiskers Plot



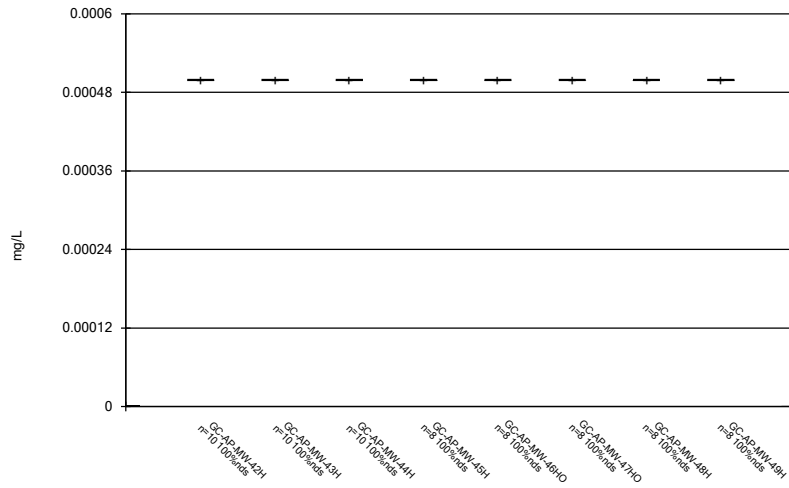
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### Box & Whiskers Plot



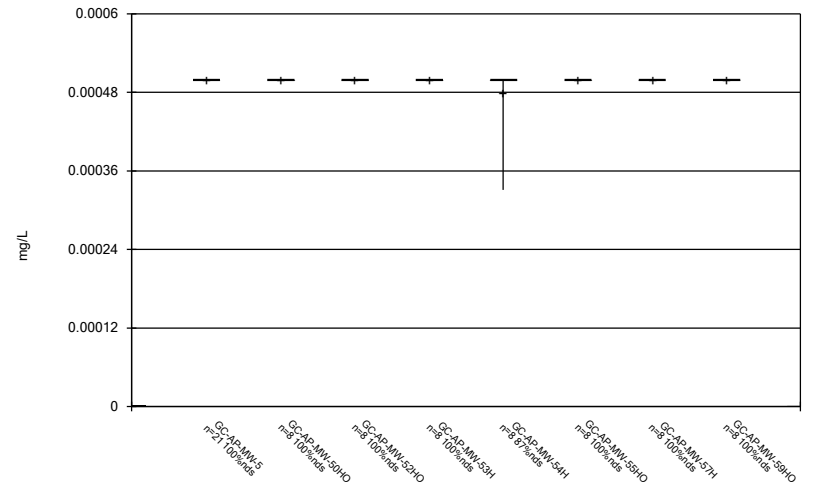
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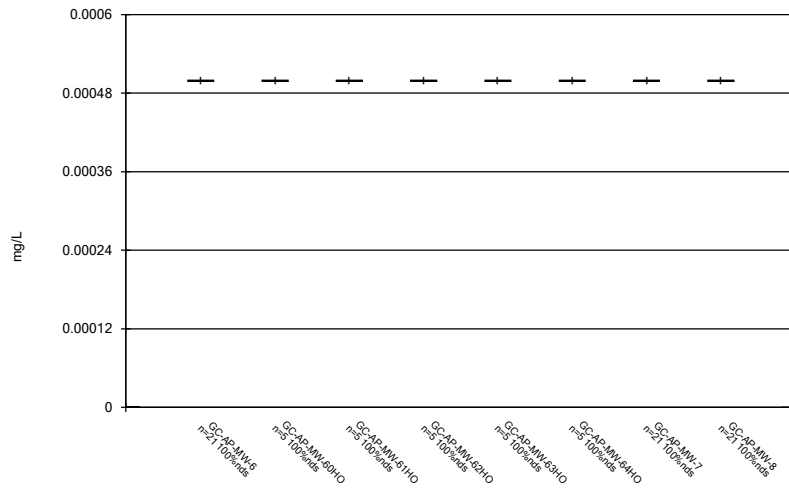
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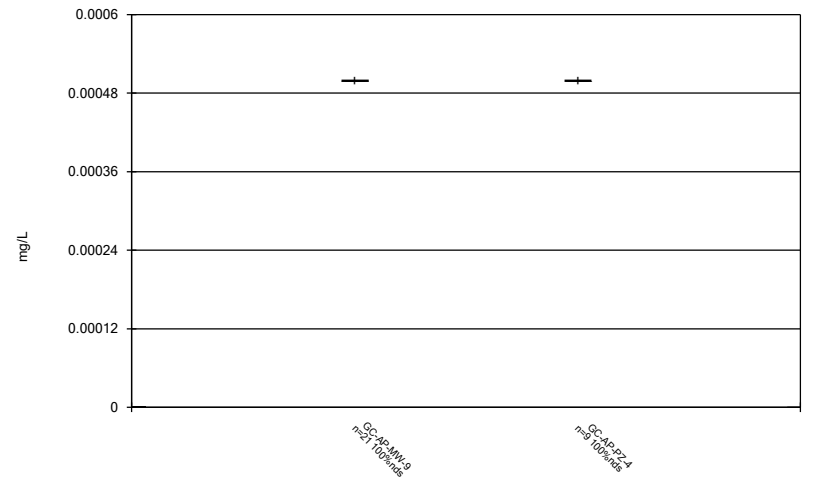
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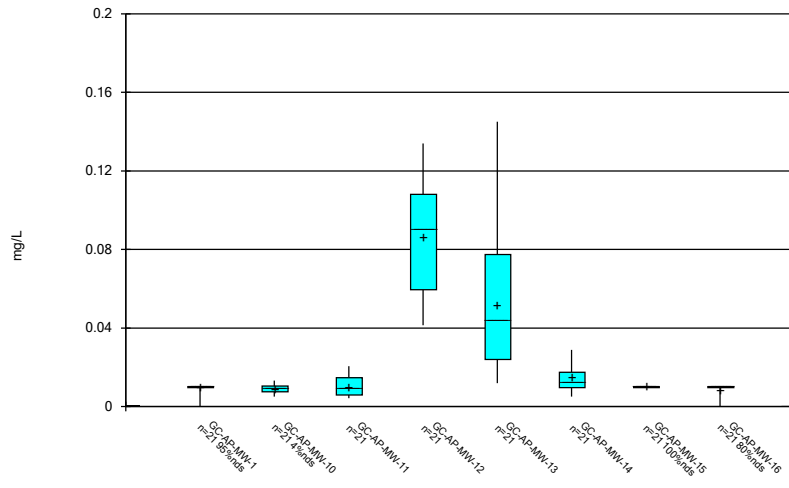
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### Box & Whiskers Plot



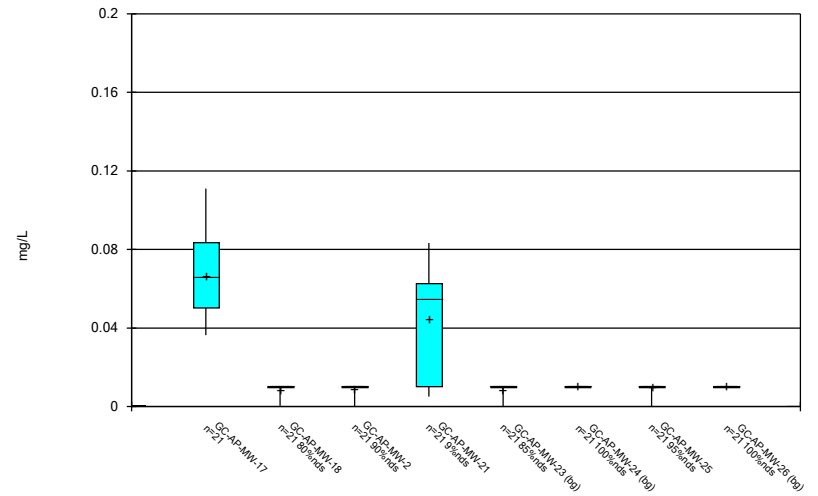
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### Box & Whiskers Plot



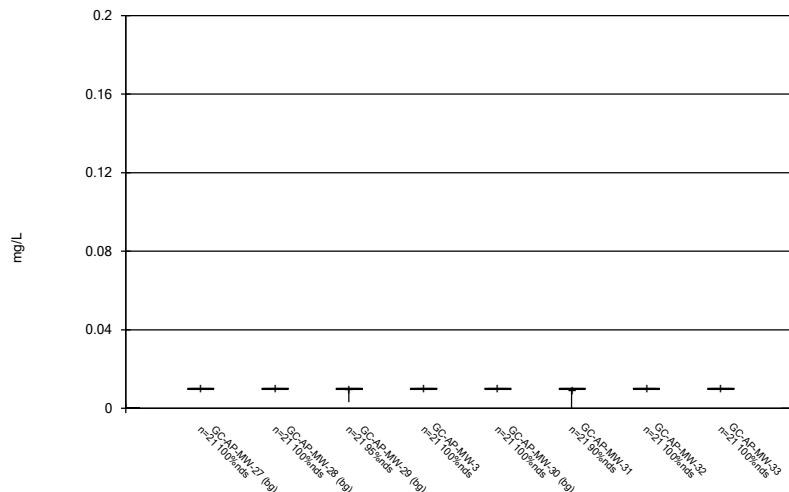
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### Box & Whiskers Plot



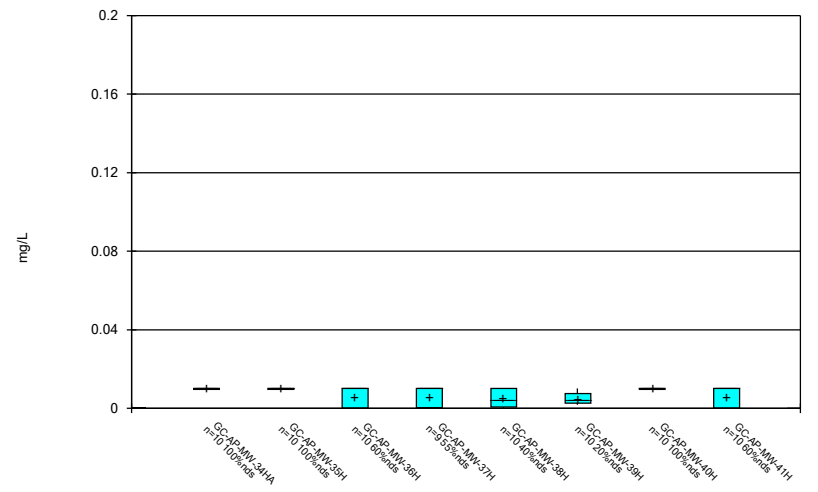
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### Box & Whiskers Plot



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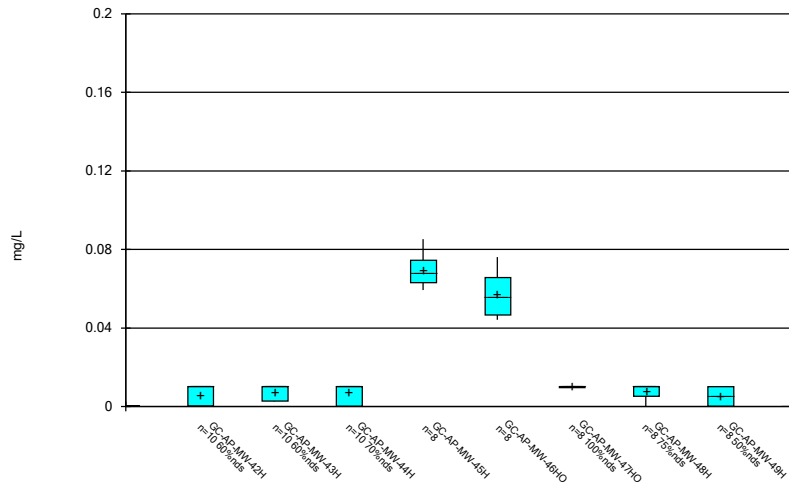
### Box & Whiskers Plot



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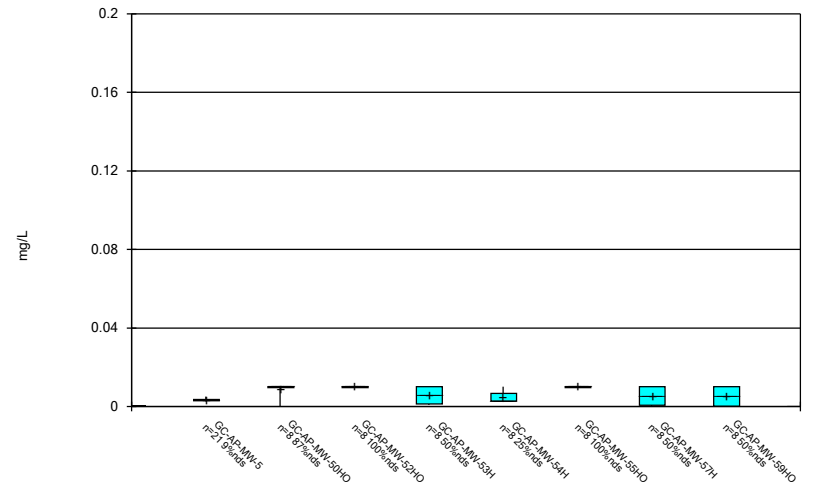


### Box & Whiskers Plot



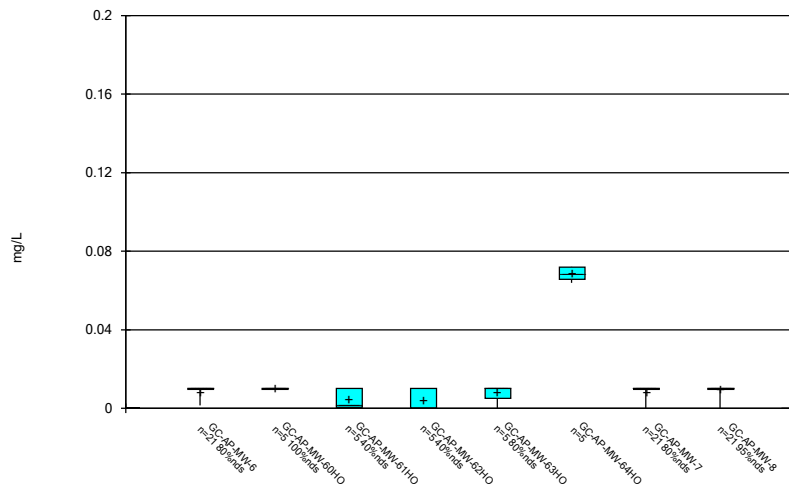
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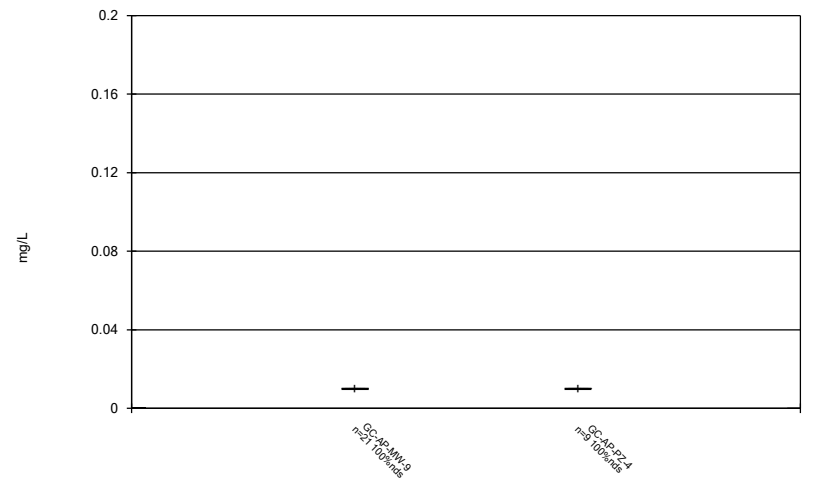
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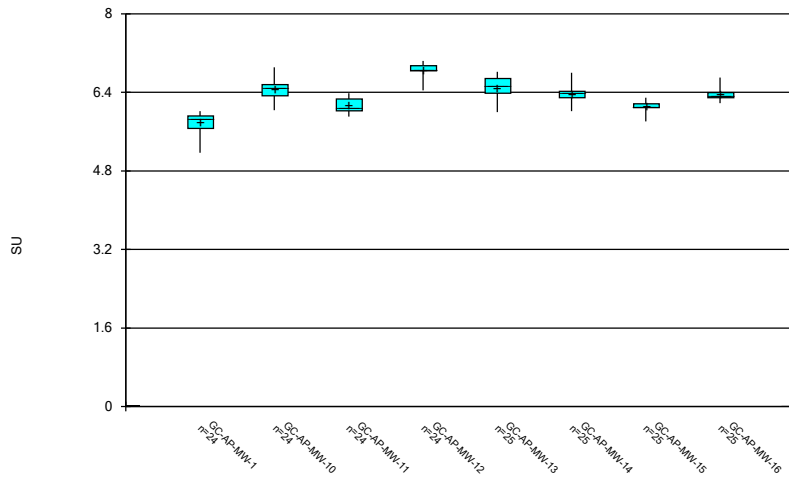
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



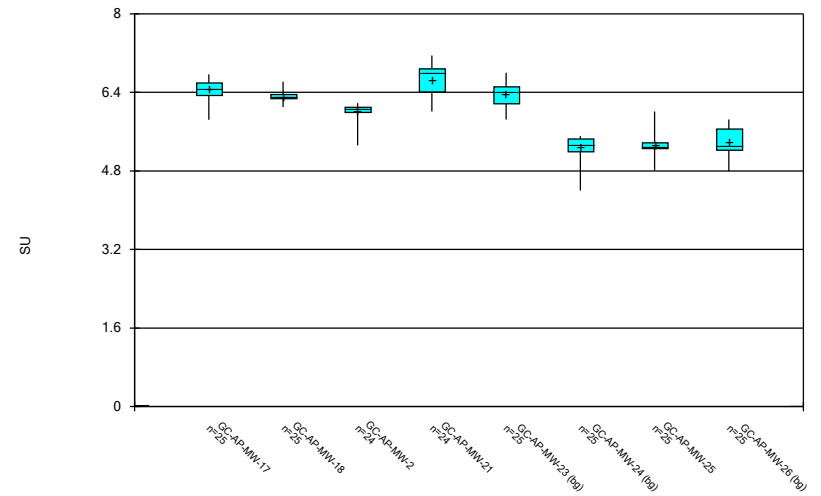
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



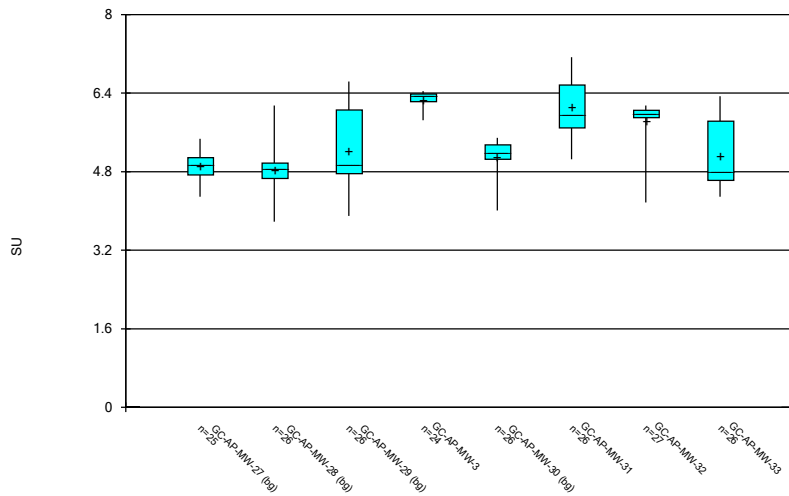
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



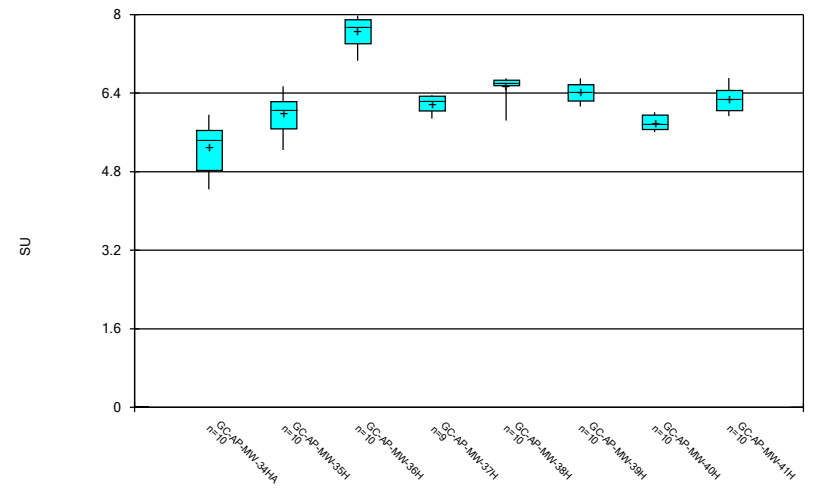
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



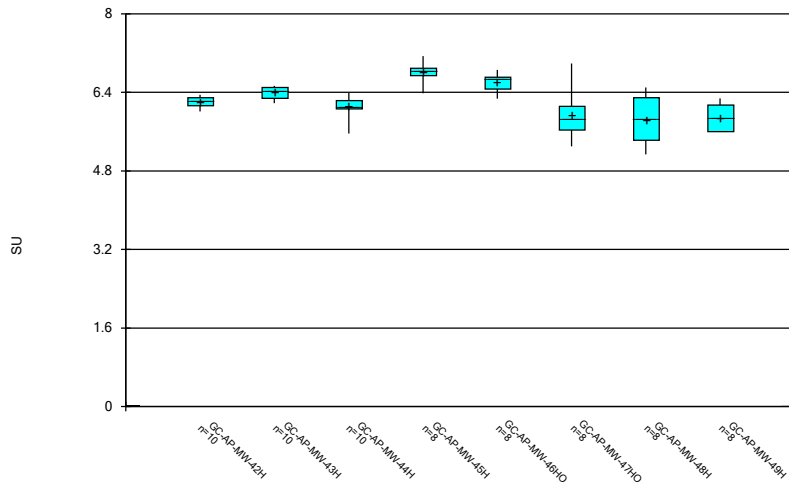
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



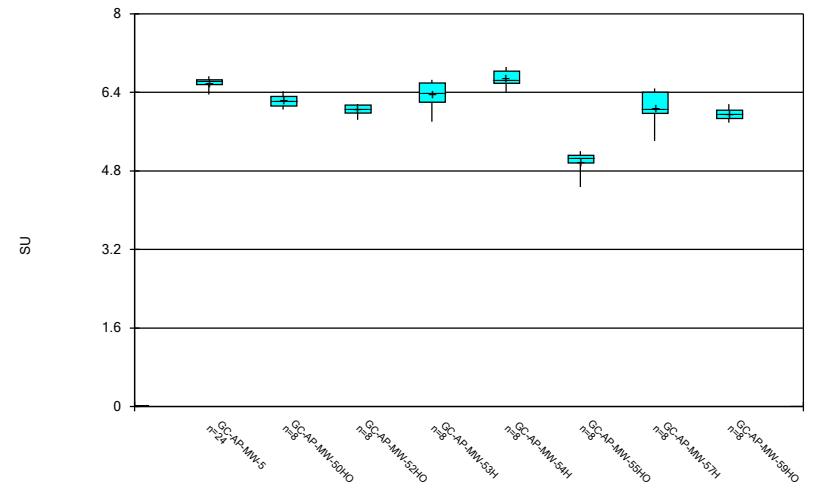
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Plant Greene County Data: Greene County AP

Box & Whiskers Plot



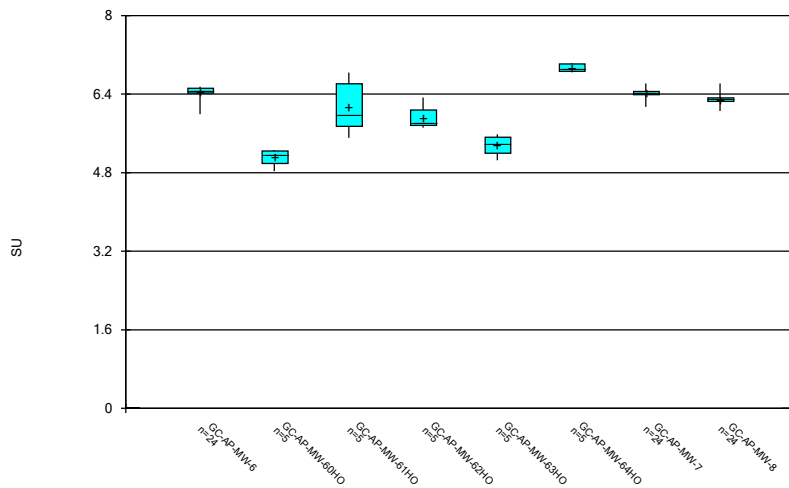
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Plant Greene County Data: Greene County AP

Box & Whiskers Plot



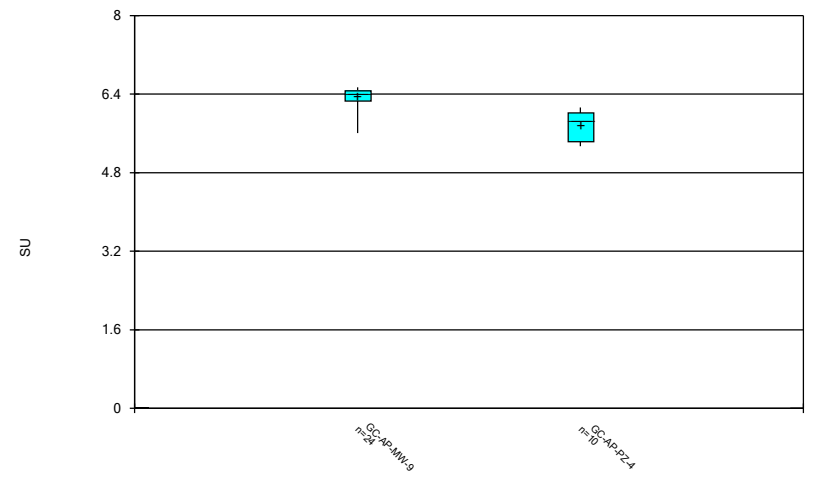
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Plant Greene County Data: Greene County AP

Box & Whiskers Plot



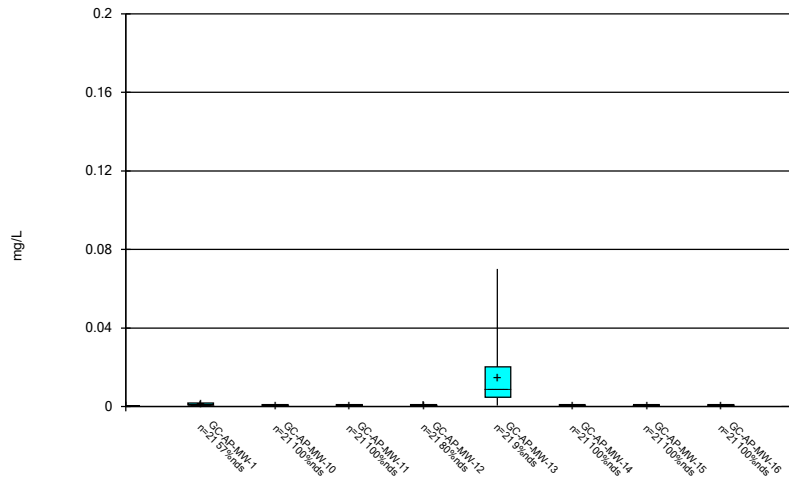
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Plant Greene County Data: Greene County AP

Box & Whiskers Plot



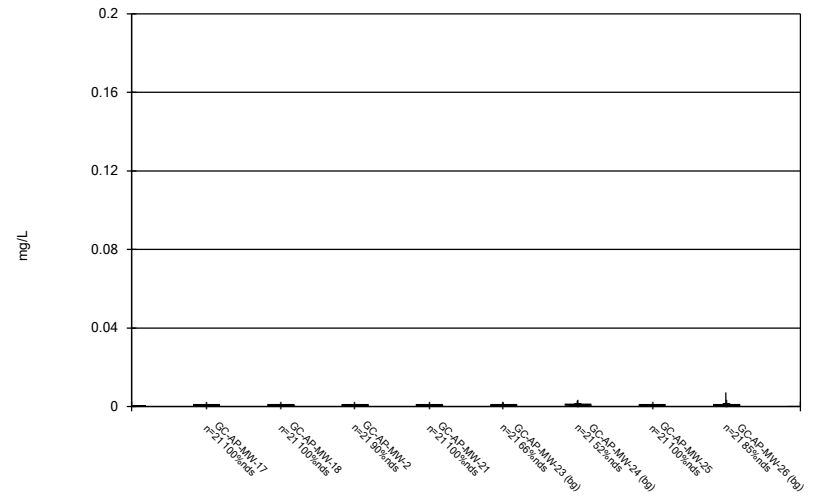
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



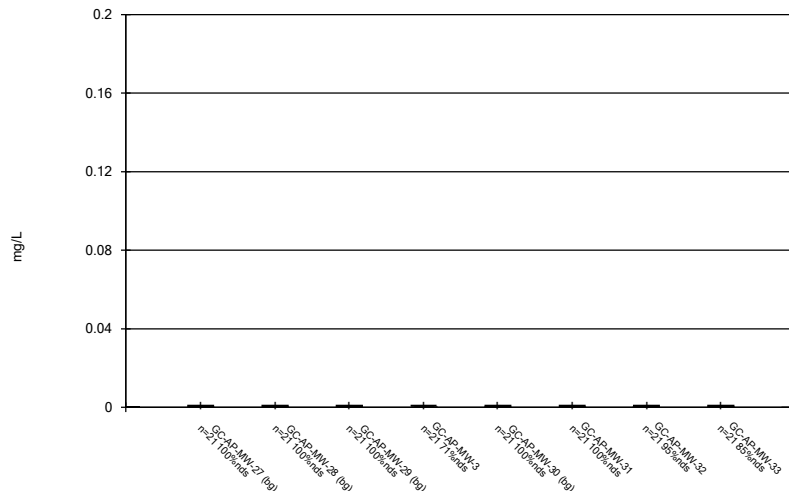
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### Box & Whiskers Plot



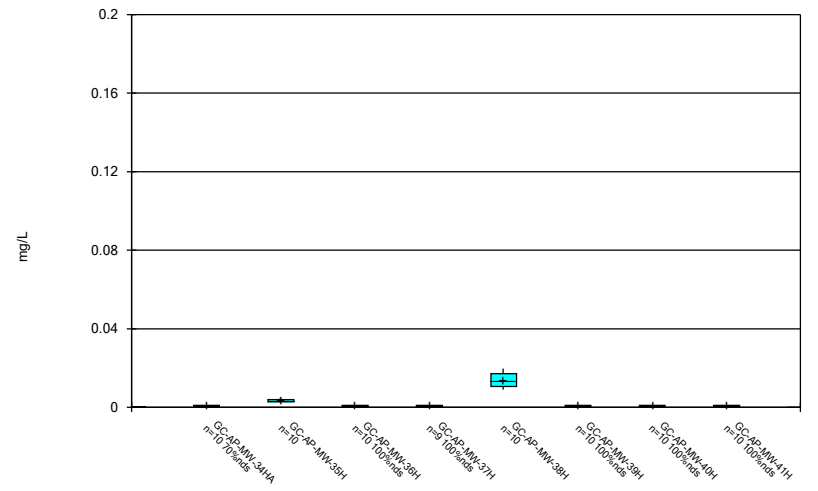
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



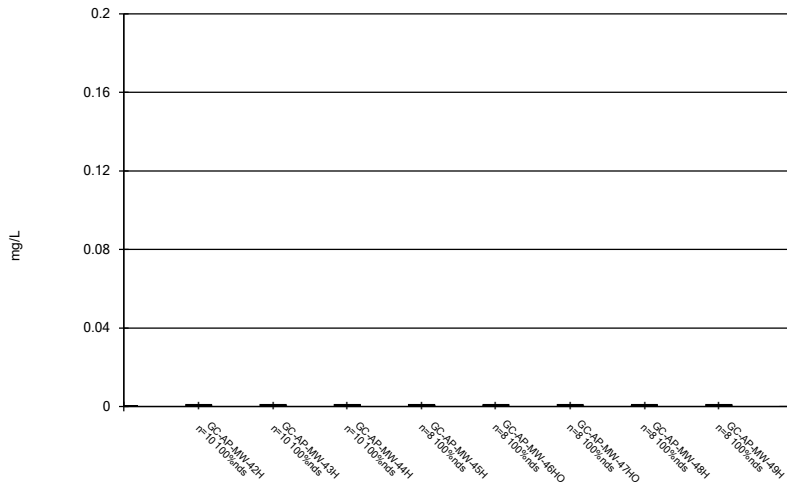
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



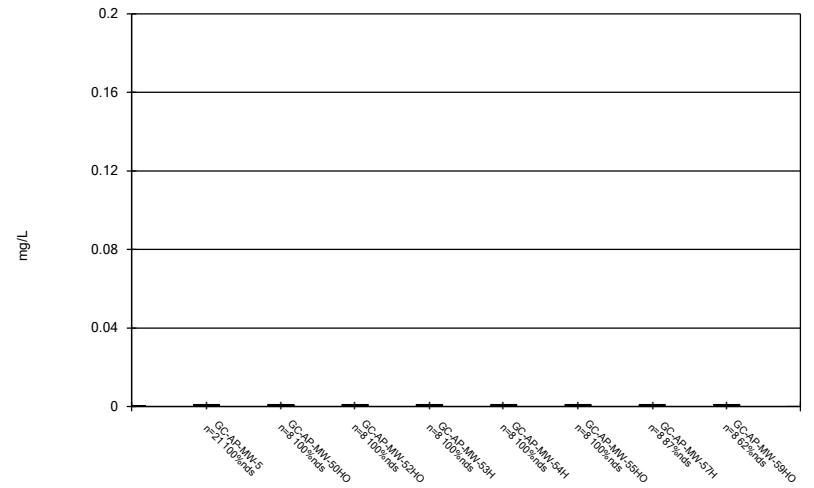
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



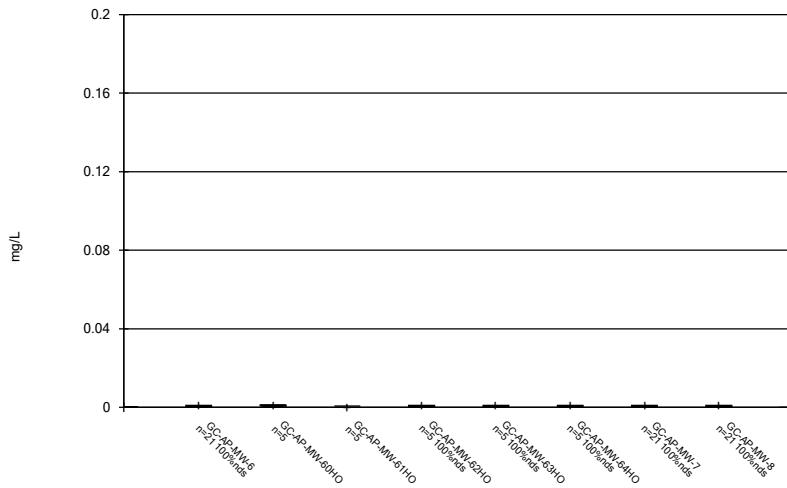
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



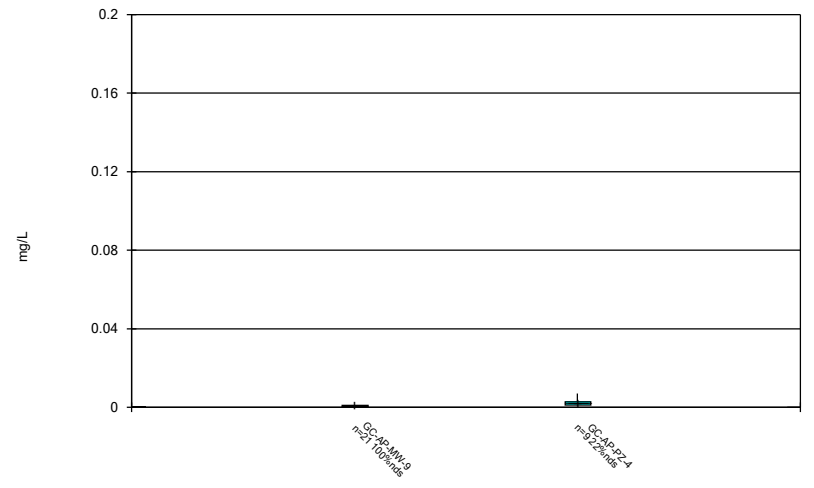
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



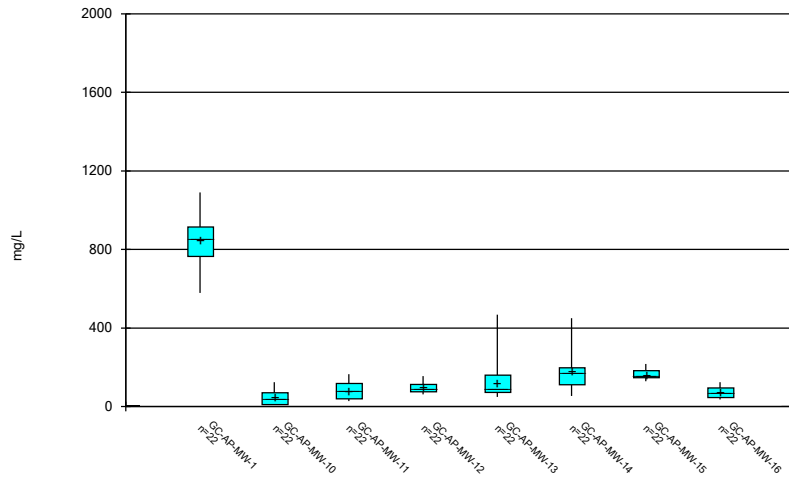
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



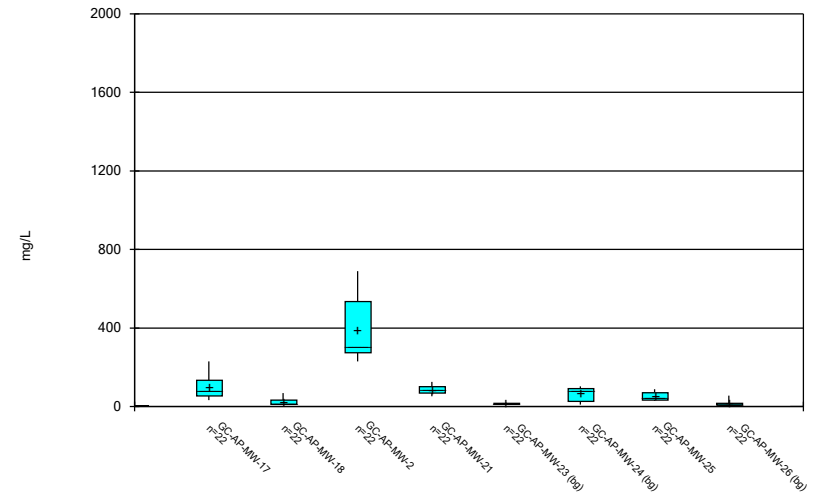
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



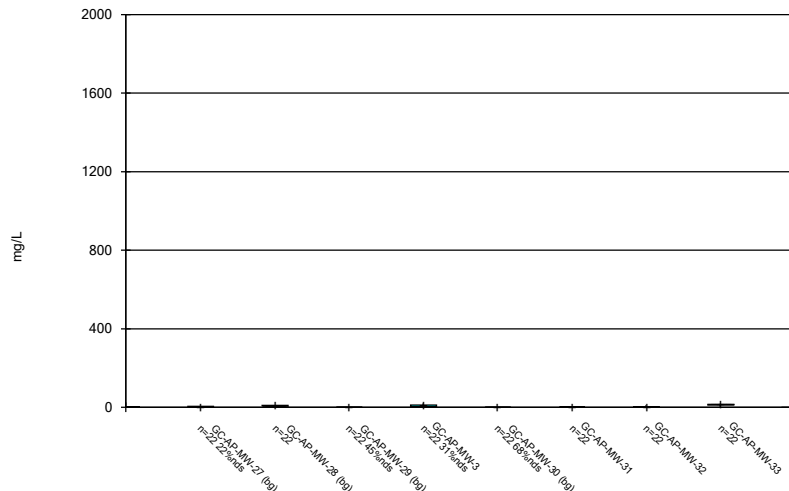
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



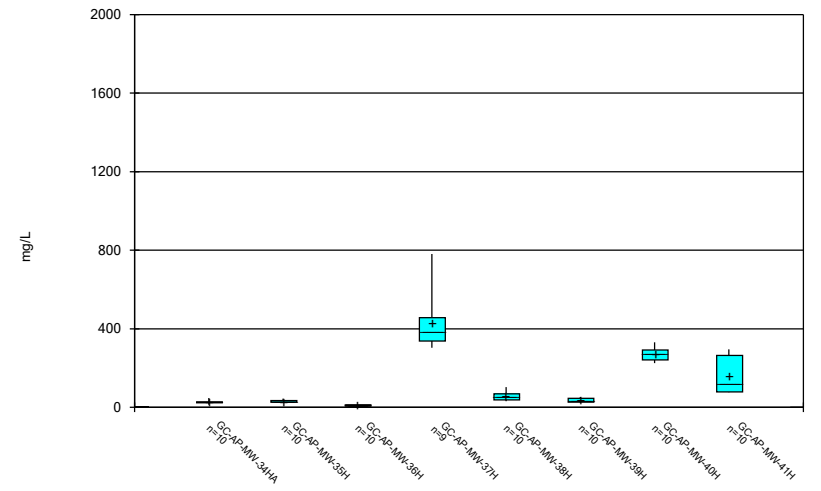
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



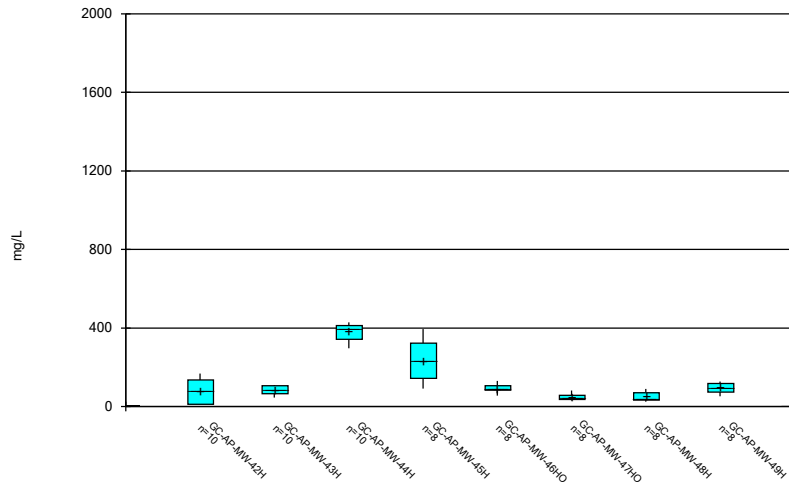
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



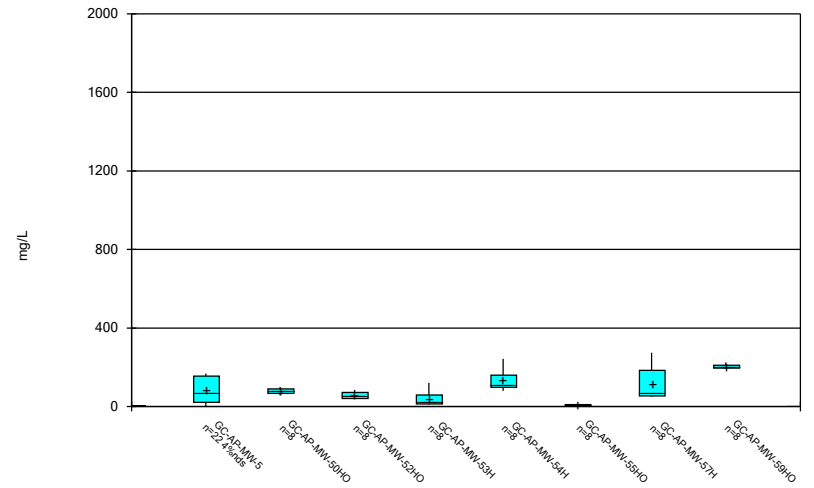
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



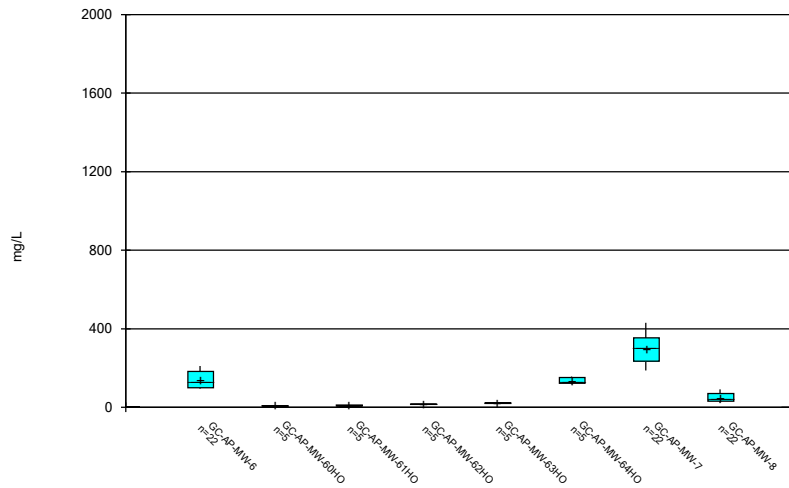
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



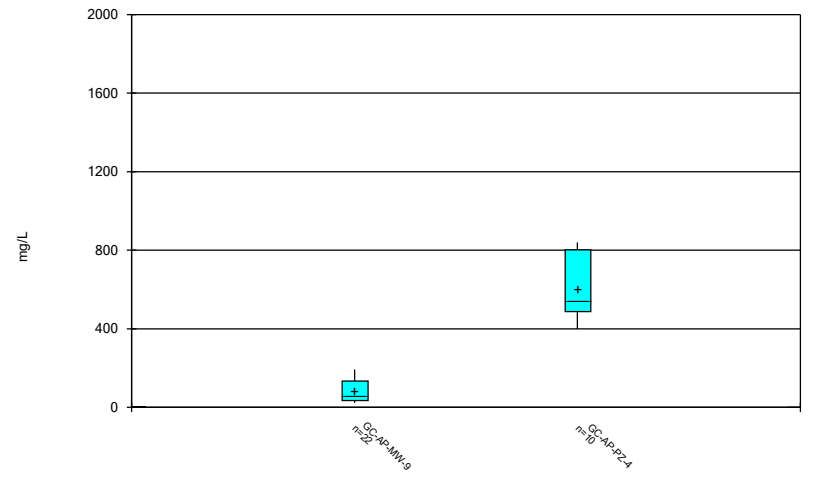
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### Box & Whiskers Plot



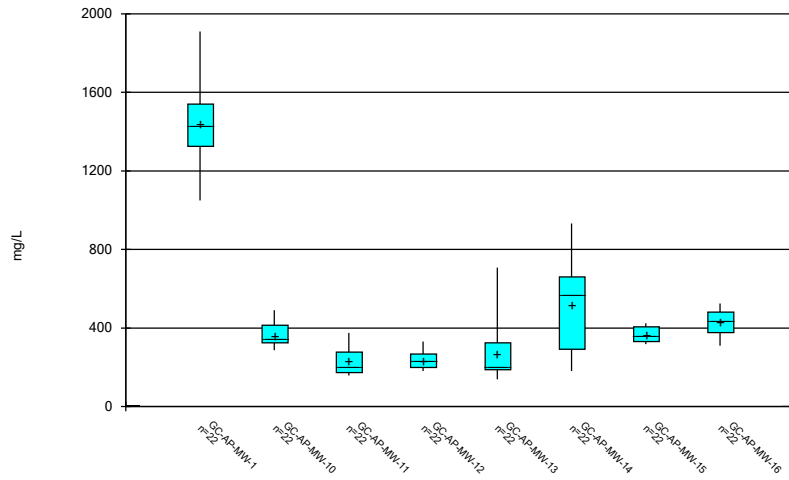
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### Box & Whiskers Plot



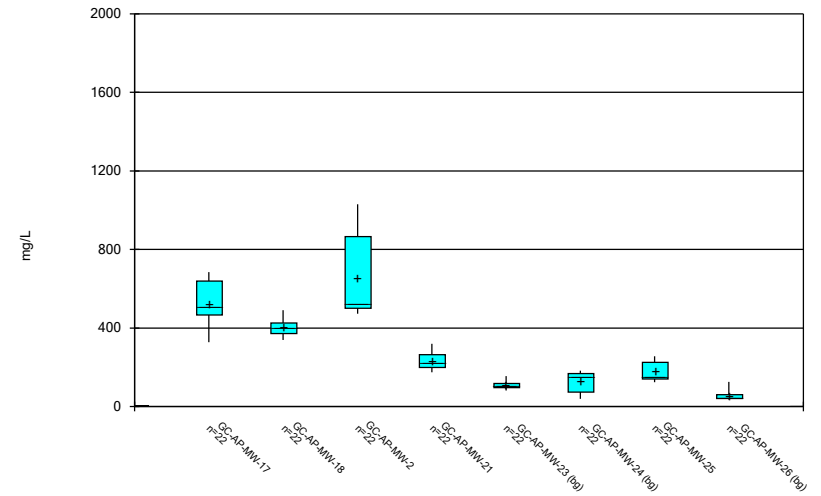
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



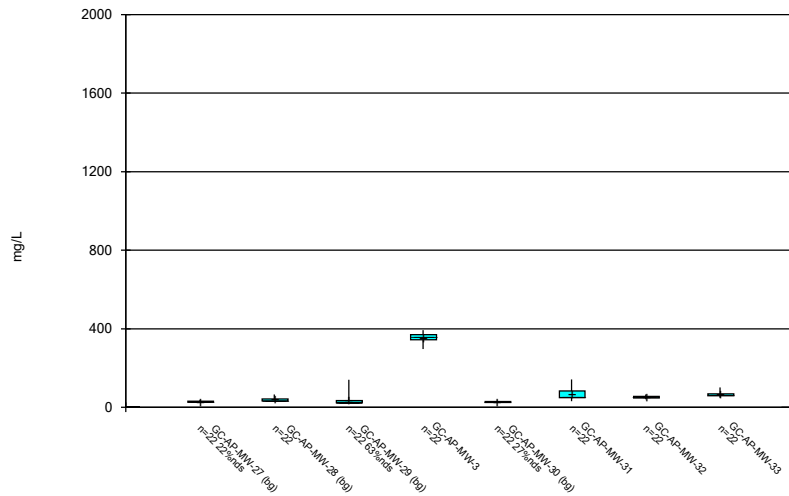
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



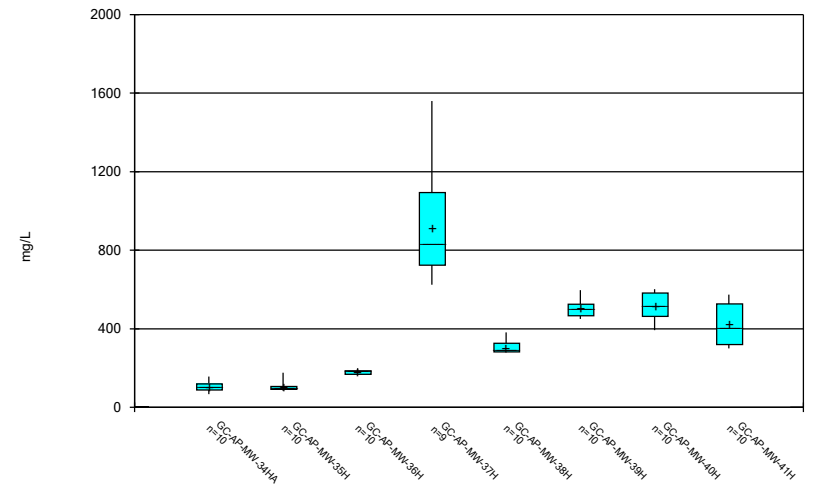
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



Constituent: TDS Analysis Run 1/1/2024 4:48 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

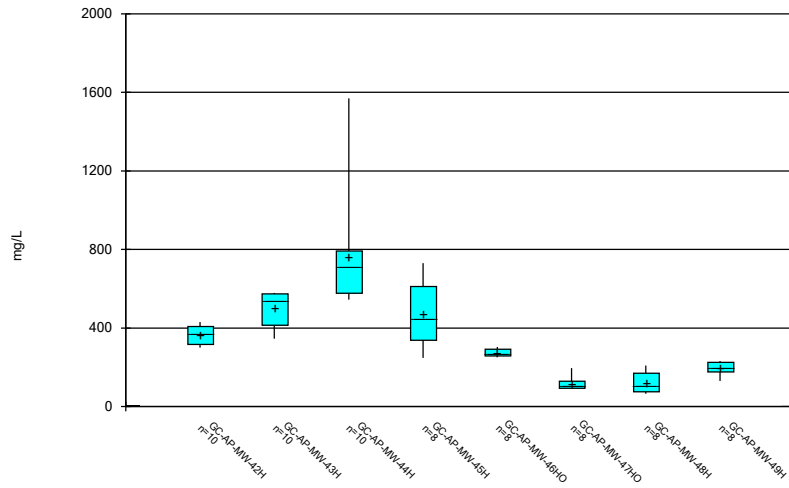
### Box & Whiskers Plot



Constituent: TDS Analysis Run 1/1/2024 4:48 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

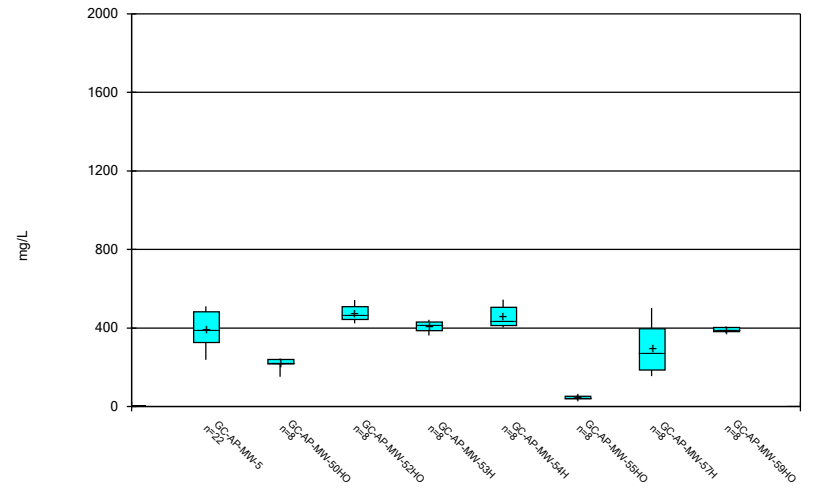


Box & Whiskers Plot



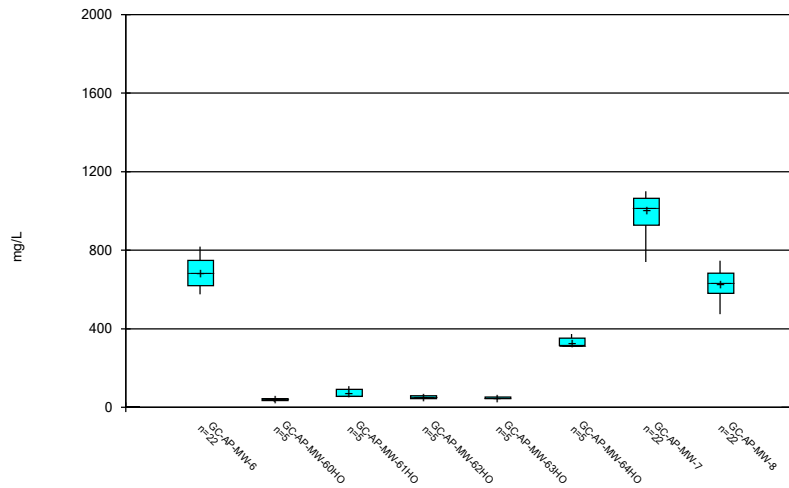
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Box & Whiskers Plot



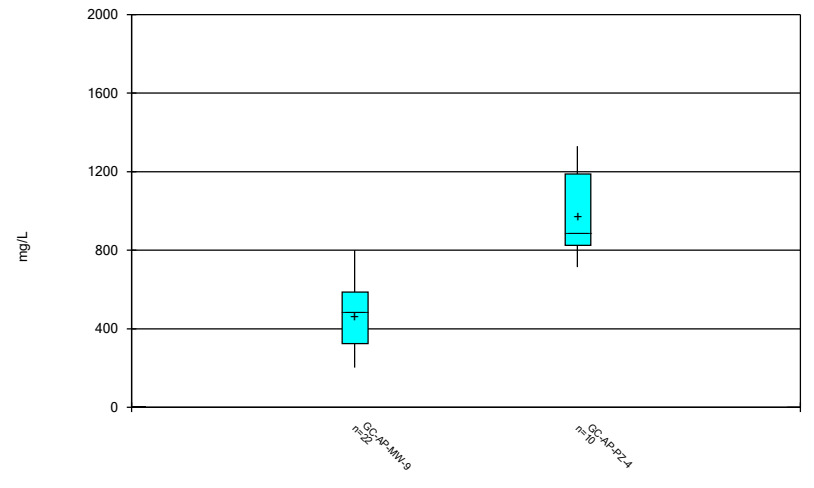
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Box & Whiskers Plot



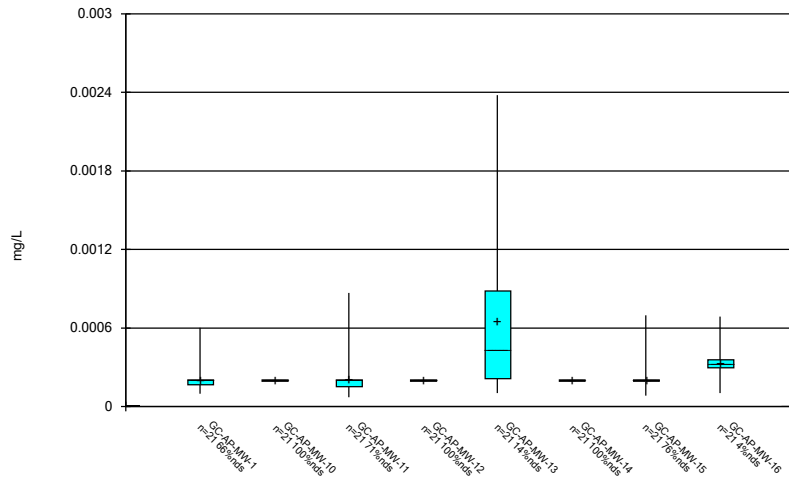
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Box & Whiskers Plot



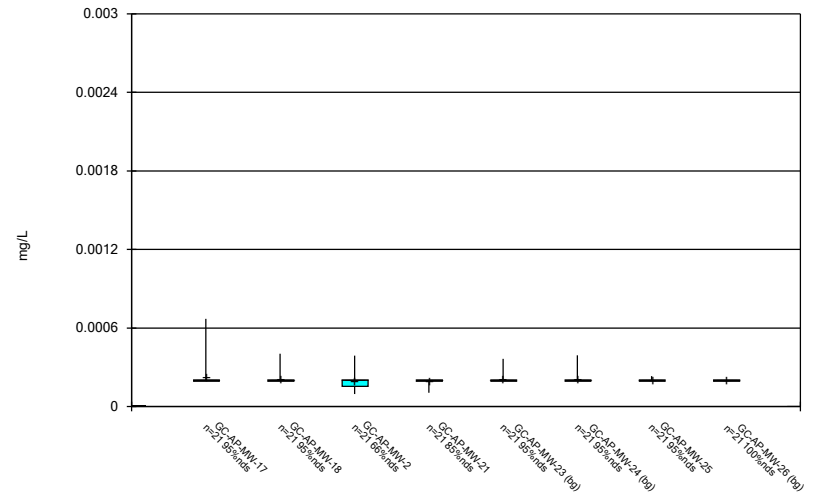
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



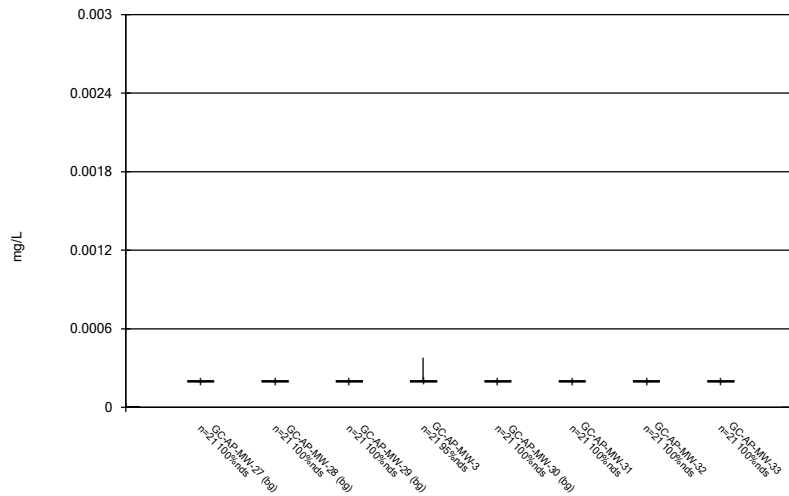
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



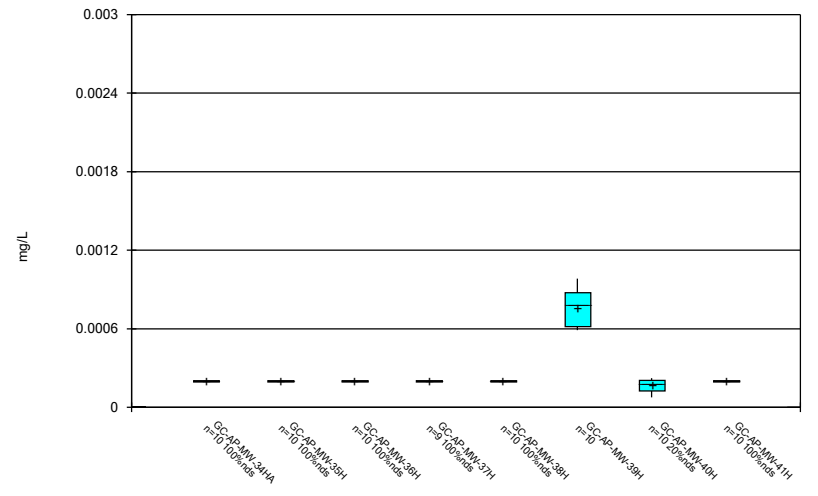
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



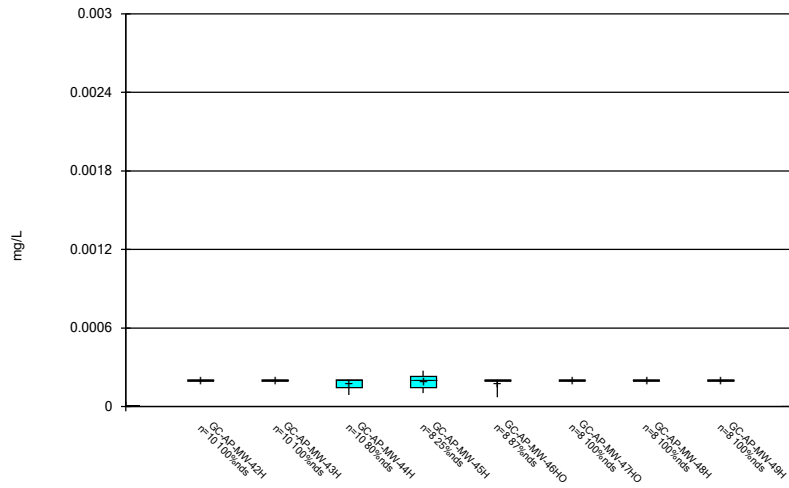
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Plant Greene County Data: Greene County AP

### Box & Whiskers Plot



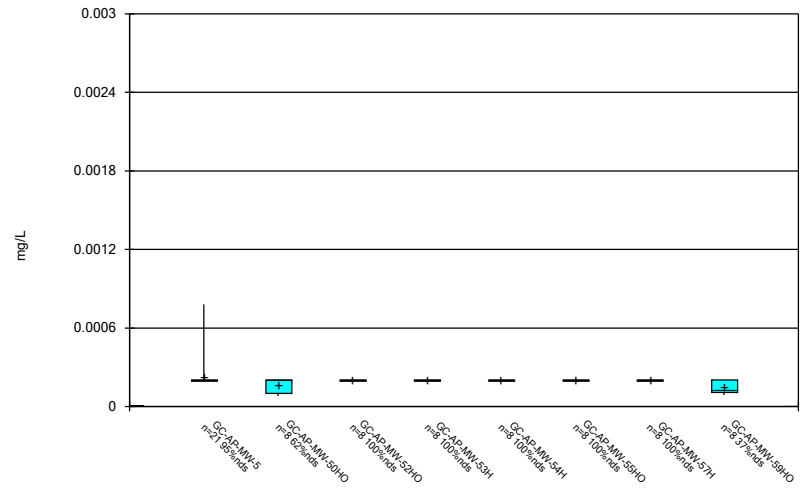
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Plant Greene County Data: Greene County AP

Box & Whiskers Plot



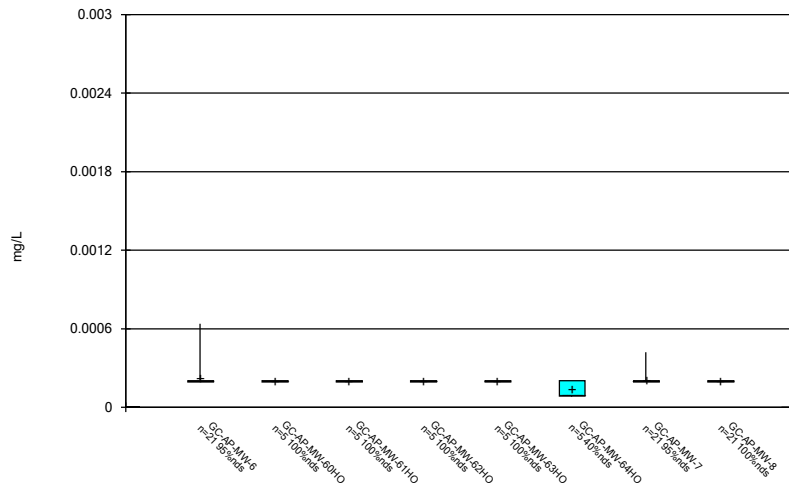
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Plant Greene County Data: Greene County AP

Box & Whiskers Plot



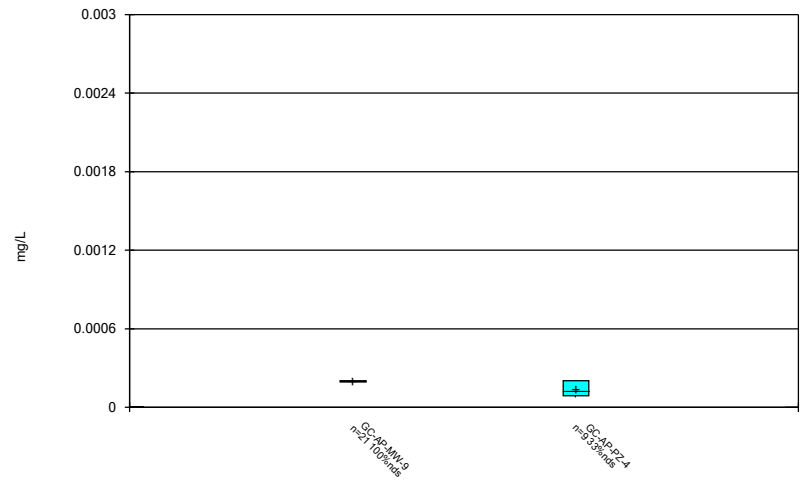
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Plant Greene County Data: Greene County AP

Box & Whiskers Plot



Constituent: Thallium Analysis Run 1/1/2024 4:48 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

Box & Whiskers Plot



Constituent: Thallium Analysis Run 1/1/2024 4:48 PM View: Time Series & Box Plot  
Plant Greene County Data: Greene County AP

FIGURE C.

# Outlier Summary

Plant Greene County Data: Greene County AP Printed 1/1/2024, 4:51 PM

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	GC-AP-MW-26 Fluoride (mg/L)	GC-AP-MW-27 Fluoride (mg/L)	GC-AP-MW-28 Fluoride (mg/L)	GC-AP-MW-13 Selenium (mg/L)
9/20/2016	0.01 (o)	0.021 (o)		
3/13/2017	0.31 (o)			
5/9/2017	0.25 (o)			
6/27/2017	0.22 (o)			
8/29/2017	0.22 (o)			
4/6/2022			0.111 (o)	

# Tukey's Outlier Analysis - Upgradient Wells - Significant Results

Plant Greene County Data: Greene County AP Printed 1/1/2024, 5:20 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Barium (mg/L)	GC-AP-MW-23,GC-AP...	Yes	0.108,0.336,0.341,0.347,0.332...	NP	NaN	147	0.07875	0.07805	x^4	ChiSquared
Calcium (mg/L)	GC-AP-MW-23,GC-AP...	Yes	38.7,42.7,41.8,40.9,38.1,27.7...	NP	NaN	154	9.695	13.15	x^5	ChiSquared
Chloride (mg/L)	GC-AP-MW-23,GC-AP...	Yes	3.78,4.61,5.9,5.7,6.8,7.9,6.1...	NP	NaN	154	2.371	1.298	x^6	ChiSquared
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-23,GC-AP...	Yes	1.5,1.5,1.5,1.88,1.72,1.21,1....	NP	NaN	147	0.745	0.5576	x^6	ChiSquared
Fluoride (mg/L)	GC-AP-MW-23,GC-AP...	Yes	0.08,0.08,0.08,0.08,0.08,0.07...	NP	NaN	154	0.05447	0.03931	x^5	ChiSquared
pH (SU)	GC-AP-MW-23,GC-AP...	Yes	6.8,6.54,6.54,6.54,6.57,6.59,...	NP	NaN	178	5.289	0.6325	x^6	ChiSquared
Sulfate (mg/L)	GC-AP-MW-23,GC-AP...	Yes	20,20.1,19.1,18.4,19.8,30.7,3...	NP	NaN	154	15.11	24.77	x^5	ChiSquared
TDS (mg/L)	GC-AP-MW-23,GC-AP...	Yes	142,155,155,148,132,115,120,1...	NP	NaN	154	59.98	44.99	x^6	ChiSquared

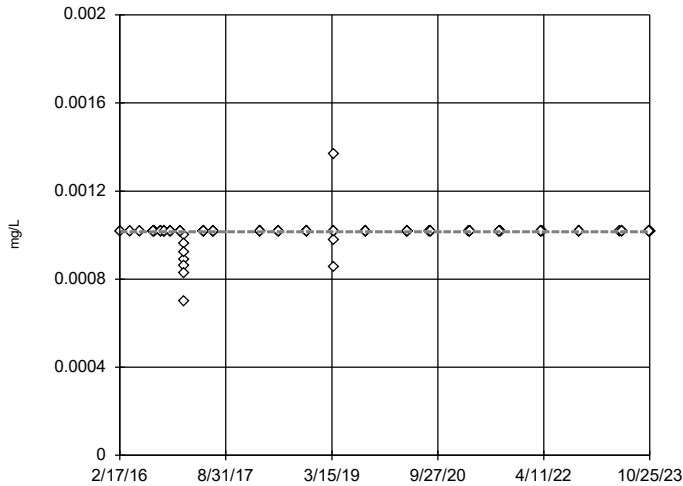
# Tukey's Outlier Analysis - Upgradient Wells - All Results

Plant Greene County Data: Greene County AP Printed 1/1/2024, 5:20 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	GC-AP-MW-23,GC-AP...	n/a	n/a	NP	NaN	147	0.00101	0.00004795	unknown	ChiSquared
Arsenic (mg/L)	GC-AP-MW-23,GC-AP...	n/a	n/a	NP	NaN	147	0.0003726	0.0006089	unknown	ChiSquared
<b>Barium (mg/L)</b>	<b>GC-AP-MW-23,GC-AP...</b>	<b>Yes</b>	<b>0.108,0.336,0.341,0.347,0.332...</b>	<b>NP</b>	<b>NaN</b>	<b>147</b>	<b>0.07875</b>	<b>0.07805</b>	<b>x^4</b>	<b>ChiSquared</b>
Beryllium (mg/L)	GC-AP-MW-23,GC-AP...	n/a	n/a	NP	NaN	147	0.001035	0.0001753	unknown	ChiSquared
Boron (mg/L)	GC-AP-MW-23,GC-AP...	n/a	n/a	NP	NaN	147	0.09741	0.01714	unknown	ChiSquared
Cadmium (mg/L)	GC-AP-MW-23,GC-AP...	n/a	n/a	NP	NaN	147	0.0002639	0.0001671	unknown	ChiSquared
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-23,GC-AP...</b>	<b>Yes</b>	<b>38.7,42.7,41.8,40.9,38.1,27.7...</b>	<b>NP</b>	<b>NaN</b>	<b>154</b>	<b>9.695</b>	<b>13.15</b>	<b>x^5</b>	<b>ChiSquared</b>
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-23,GC-AP...</b>	<b>Yes</b>	<b>3.78,4.61,5.9,5.7,6.8,7.9,6.1...</b>	<b>NP</b>	<b>NaN</b>	<b>154</b>	<b>2.371</b>	<b>1.298</b>	<b>x^6</b>	<b>ChiSquared</b>
Chromium (mg/L)	GC-AP-MW-23,GC-AP...	n/a	n/a	NP	NaN	147	0.0008614	0.0002779	unknown	ChiSquared
Cobalt (mg/L)	GC-AP-MW-23,GC-AP...	n/a	n/a	NP	NaN	147	0.001922	0.003567	unknown	ChiSquared
<b>Combined Radium 226 + 228 (pCi/L)</b>	<b>GC-AP-MW-23,GC-AP...</b>	<b>Yes</b>	<b>1.5,1.5,1.5,1.88,1.72,1.21,1....</b>	<b>NP</b>	<b>NaN</b>	<b>147</b>	<b>0.745</b>	<b>0.5576</b>	<b>x^6</b>	<b>ChiSquared</b>
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-23,GC-AP...</b>	<b>Yes</b>	<b>0.08,0.08,0.08,0.08,0.08,0.07...</b>	<b>NP</b>	<b>NaN</b>	<b>154</b>	<b>0.05447</b>	<b>0.03931</b>	<b>x^5</b>	<b>ChiSquared</b>
Lead (mg/L)	GC-AP-MW-23,GC-AP...	n/a	n/a	NP	NaN	147	0.0002012	0.00001547	unknown	ChiSquared
Lithium (mg/L)	GC-AP-MW-23,GC-AP...	n/a	n/a	NP	NaN	147	0.02	0	unknown	ChiSquared
Mercury (mg/L)	GC-AP-MW-23,GC-AP...	n/a	n/a	NP	NaN	147	0.0005	0	unknown	ChiSquared
Molybdenum (mg/L)	GC-AP-MW-23,GC-AP...	n/a	n/a	NP	NaN	147	0.009898	0.001527	unknown	ChiSquared
<b>pH (SU)</b>	<b>GC-AP-MW-23,GC-AP...</b>	<b>Yes</b>	<b>6.8,6.54,6.54,6.54,6.57,6.59,...</b>	<b>NP</b>	<b>NaN</b>	<b>178</b>	<b>5.289</b>	<b>0.6325</b>	<b>x^6</b>	<b>ChiSquared</b>
Selenium (mg/L)	GC-AP-MW-23,GC-AP...	n/a	n/a	NP	NaN	147	0.001136	0.0006536	unknown	ChiSquared
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-23,GC-AP...</b>	<b>Yes</b>	<b>20,20.1,19.1,18.4,19.8,30.7,3...</b>	<b>NP</b>	<b>NaN</b>	<b>154</b>	<b>15.11</b>	<b>24.77</b>	<b>x^5</b>	<b>ChiSquared</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-23,GC-AP...</b>	<b>Yes</b>	<b>142,155,155,148,132,115,120,1...</b>	<b>NP</b>	<b>NaN</b>	<b>154</b>	<b>59.98</b>	<b>44.99</b>	<b>x^6</b>	<b>ChiSquared</b>
Thallium (mg/L)	GC-AP-MW-23,GC-AP...	n/a	n/a	NP	NaN	147	0.0002054	0.00002028	unknown	ChiSquared

### Tukey's Outlier Screening, Pooled Background

GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...

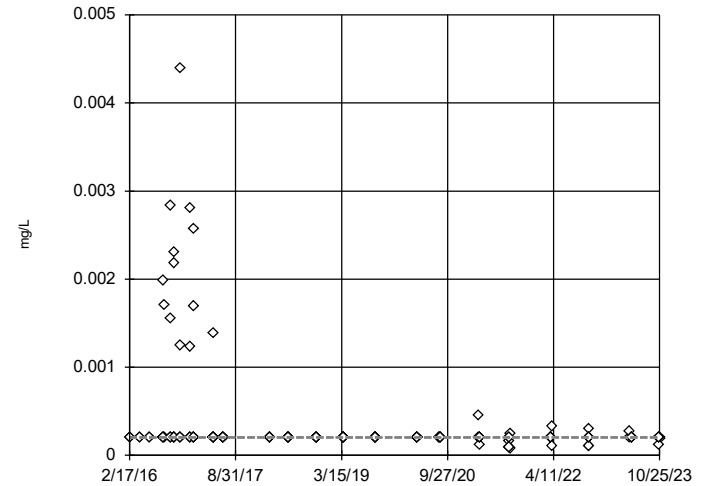


n = 147  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>6</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
 Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...

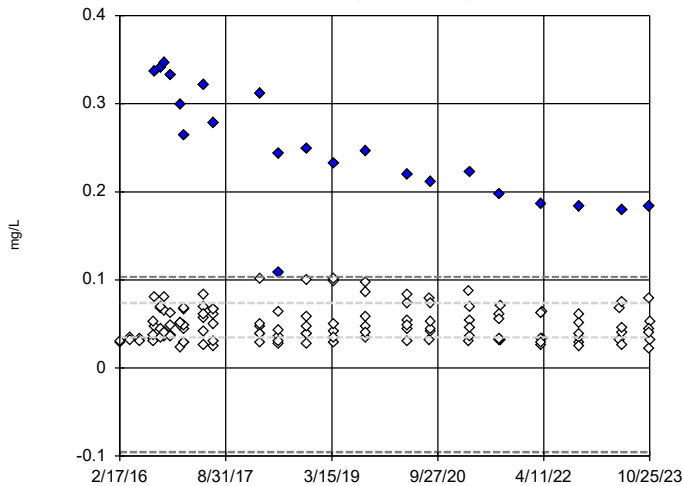


n = 147  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>6</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
 Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...

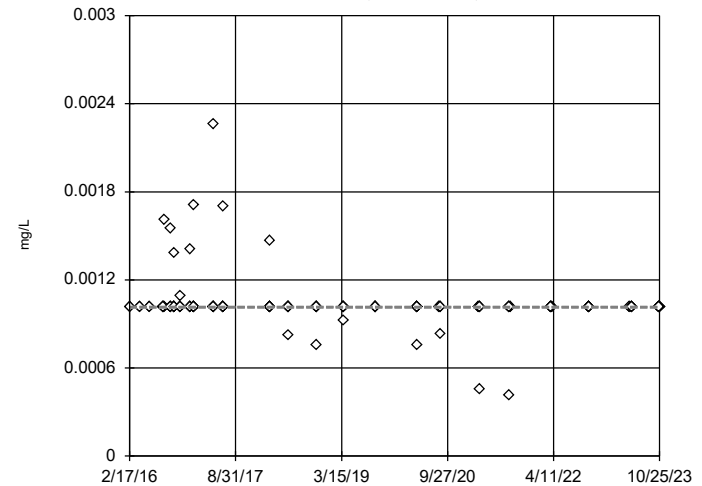


n = 147  
 Outliers are drawn as solid.  
 Tukey's method selected by user.  
 Data were x<sup>4</sup> transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 0.1034, low cutoff = -0.09546, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
 Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...



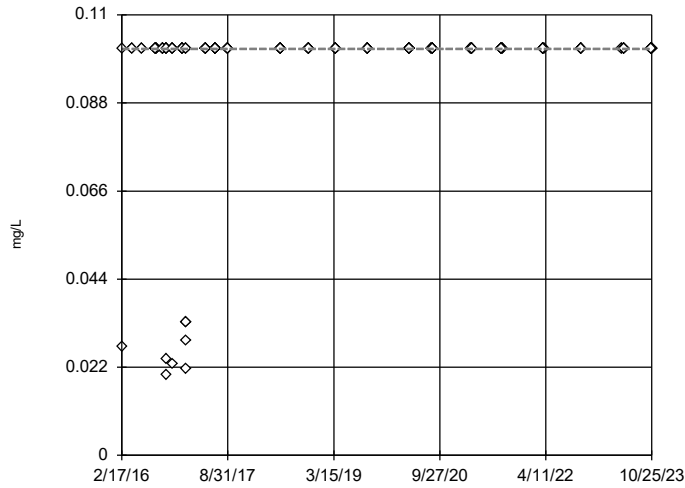
n = 147  
 No outliers found.  
 Tukey's method selected by user.  
 Data were x<sup>6</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
 Plant Greene County Data: Greene County AP



### Tukey's Outlier Screening, Pooled Background

GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...

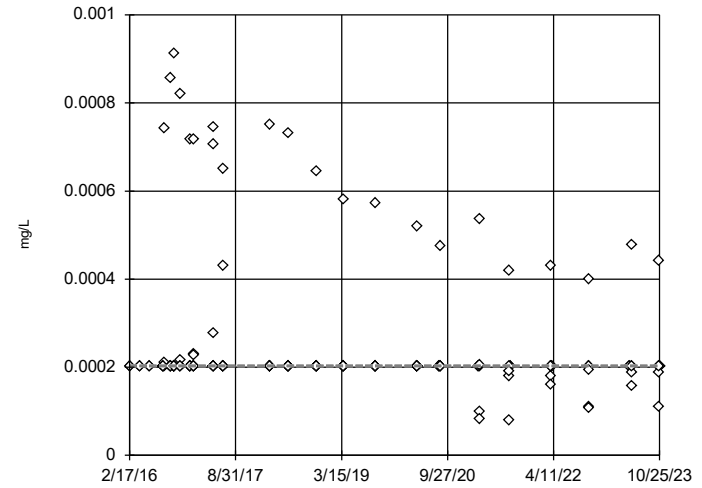


n = 147  
 No outliers found. Tukey's method selected by user.  
 Ladder of Powers transformations did not improve normality; analysis run on raw data.  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Boron Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
 Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...

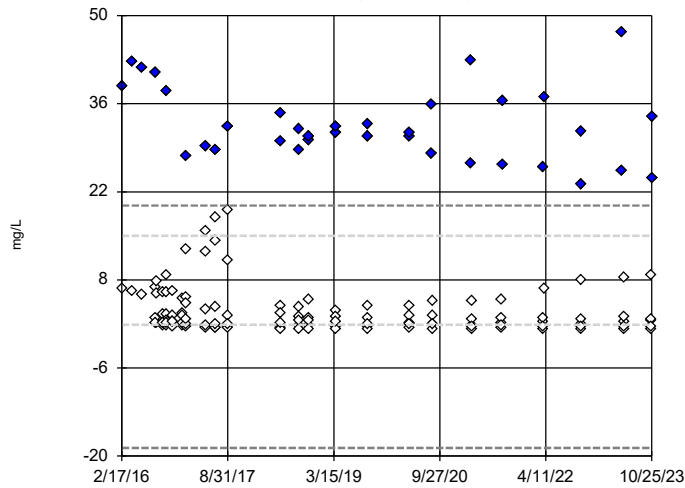


n = 147  
 No outliers found. Tukey's method selected by user.  
 Data were x^4 transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
 Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...

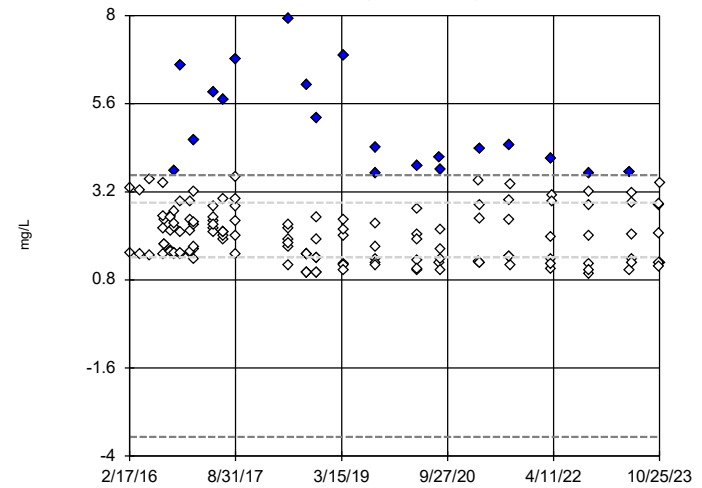


n = 154  
 Outliers are drawn as solid.  
 Tukey's method selected by user.  
 Data were x^5 transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 19.83, low cutoff = -19.72, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
 Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...

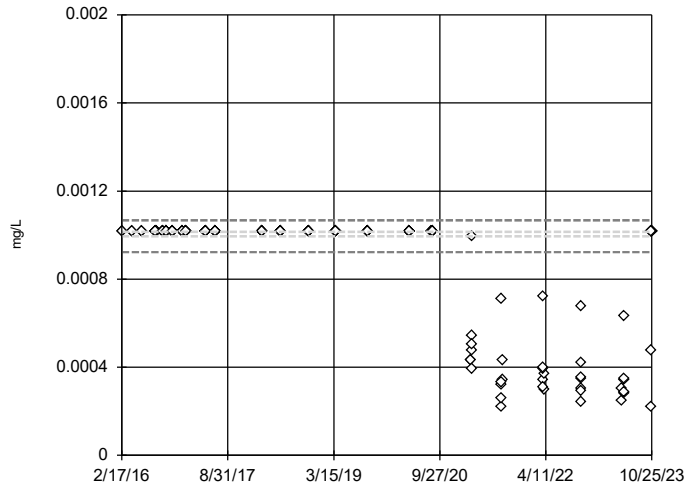


n = 154  
 Outliers are drawn as solid.  
 Tukey's method selected by user.  
 Data were x^6 transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 3.654, low cutoff = -3.478, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
 Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...

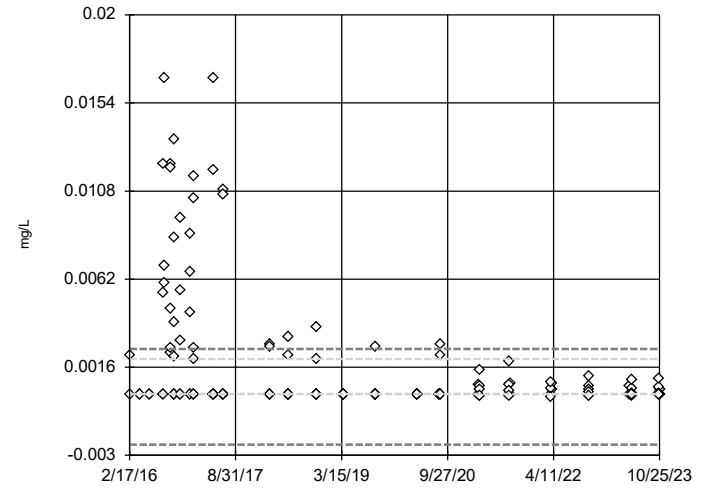


n = 147  
 No outliers found. Tukey's method selected by user.  
 Data were x<sup>5</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Chromium Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
 Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...

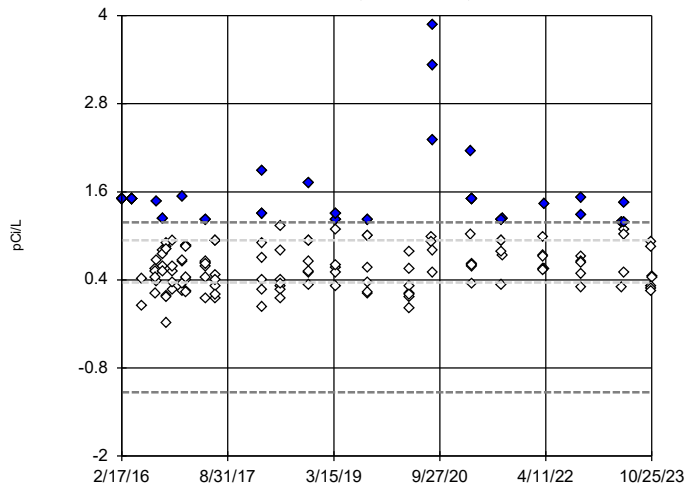


n = 147  
 No outliers found. Tukey's method selected by user.  
 Data were x<sup>6</sup> transformed to achieve best W statistic (graph shown in original units).  
 The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Cobalt Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
 Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...

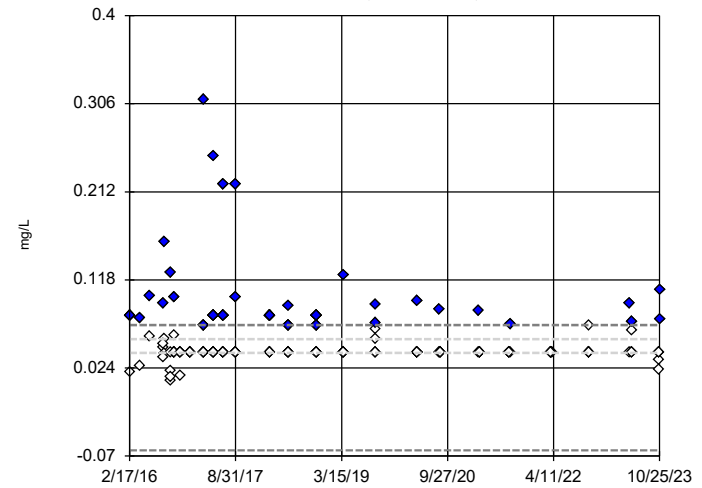


n = 147  
 Outliers are drawn as solid. Tukey's method selected by user.  
 Data were x<sup>6</sup> transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 1.185, low cutoff = -1.129, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
 Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...

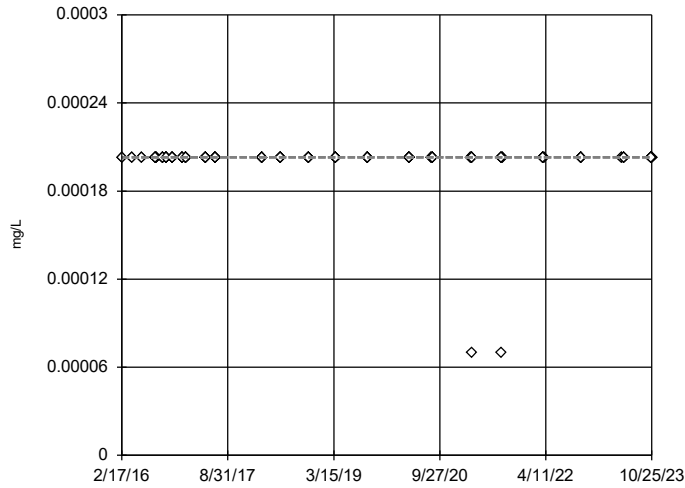


n = 154  
 Outliers are drawn as solid. Tukey's method selected by user.  
 Data were x<sup>5</sup> transformed to achieve best W statistic (graph shown in original units).  
 High cutoff = 0.06984, low cutoff = -0.06391, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
 Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

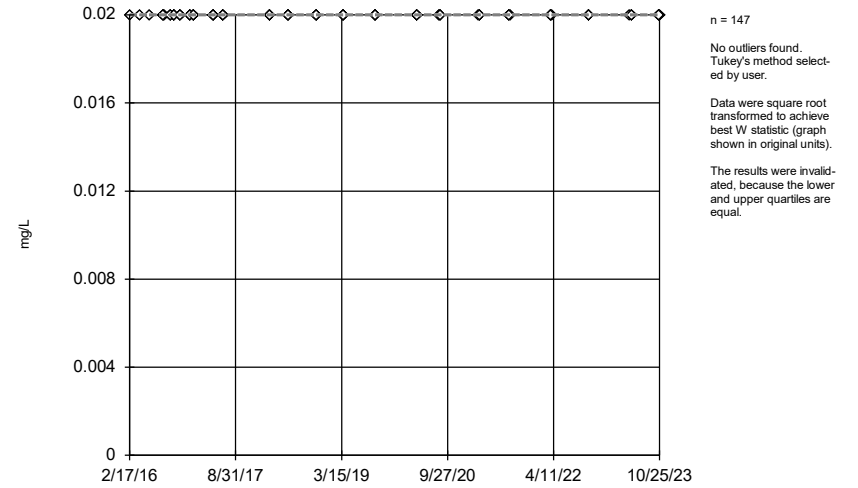
GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...



Constituent: Lead Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

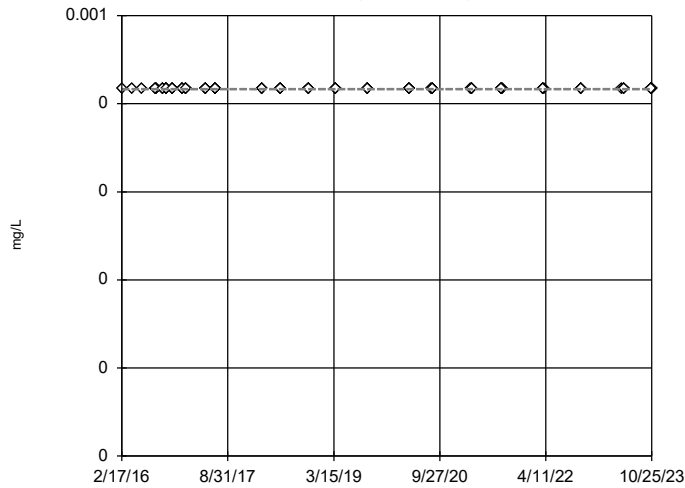
GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...



Constituent: Lithium Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

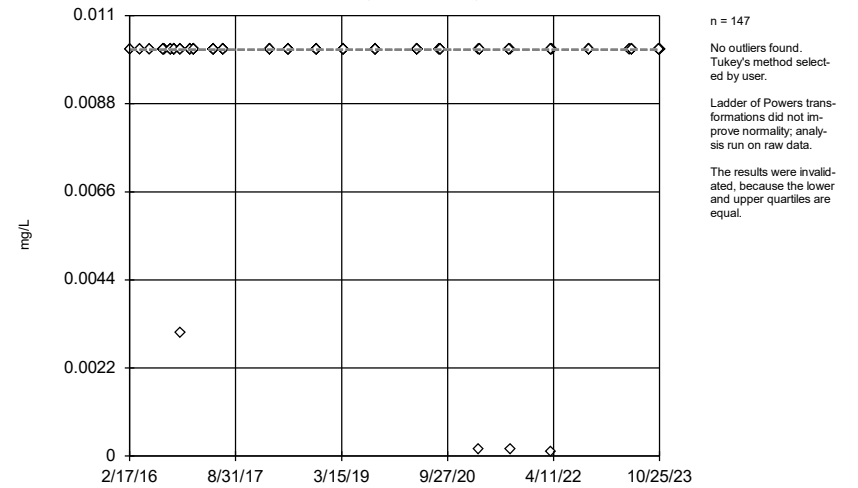
GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...



Constituent: Mercury Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

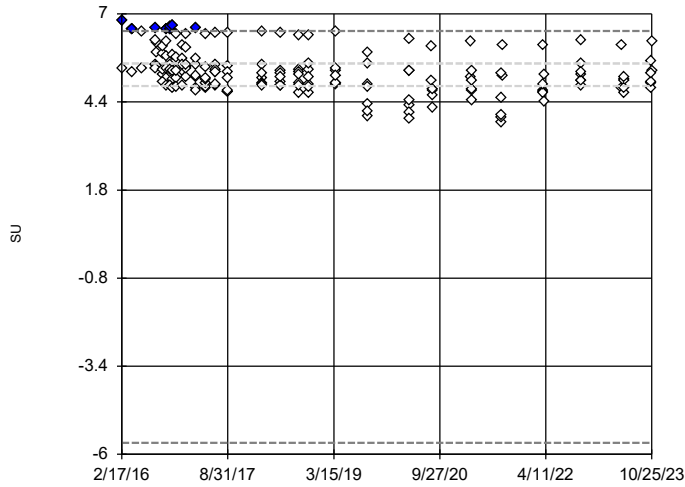
GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...



Constituent: Molybdenum Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...



n = 178

Outliers are drawn as solid. Tukey's method selected by user.

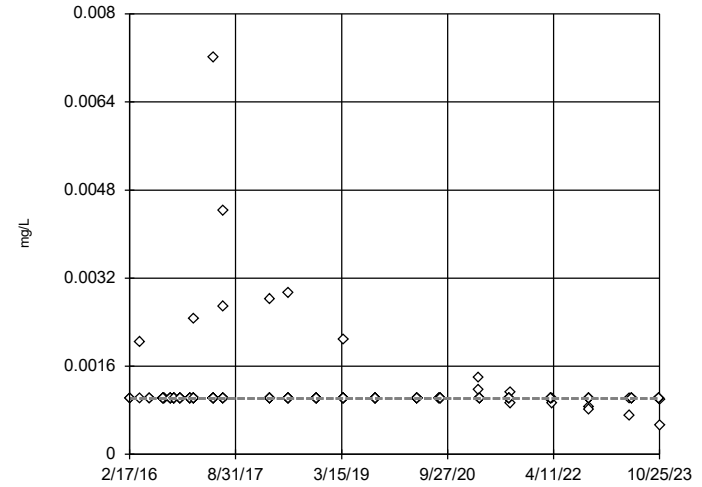
Data were  $x^6$  transformed to achieve best W statistic (graph shown in original units).

High cutoff = 6.494, low cutoff = -5.661, based on IQR multiplier of 3.

Constituent: pH Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
 Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...



n = 147

No outliers found. Tukey's method selected by user.

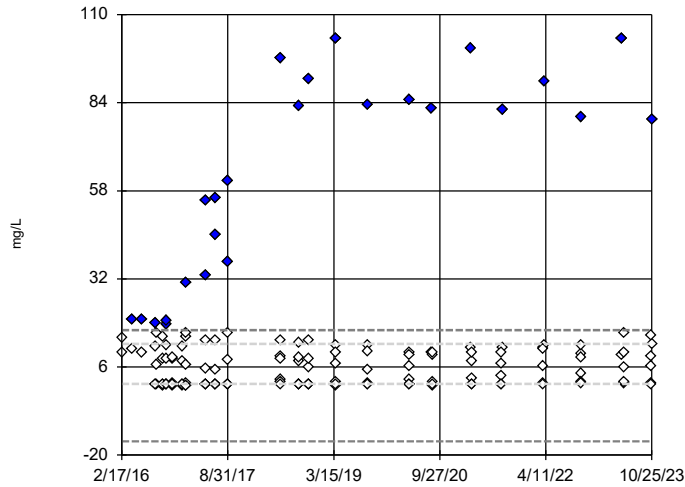
Data were  $x^6$  transformed to achieve best W statistic (graph shown in original units).

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
 Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...



n = 154

Outliers are drawn as solid. Tukey's method selected by user.

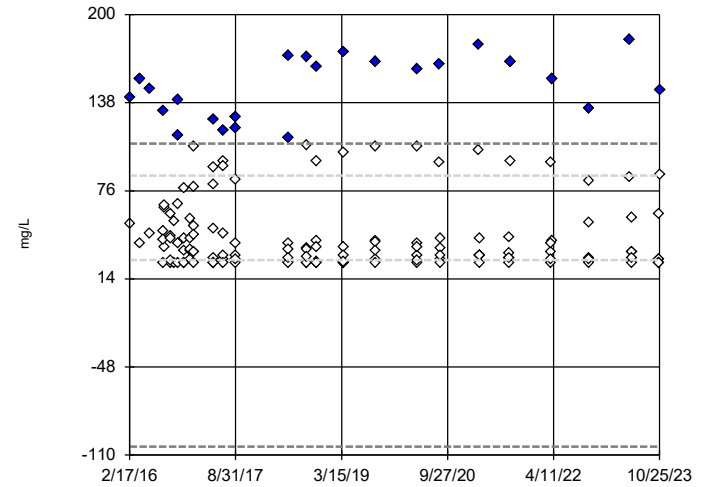
Data were  $x^5$  transformed to achieve best W statistic (graph shown in original units).

High cutoff = 16.9, low cutoff = -15.95, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
 Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...



n = 154

Outliers are drawn as solid. Tukey's method selected by user.

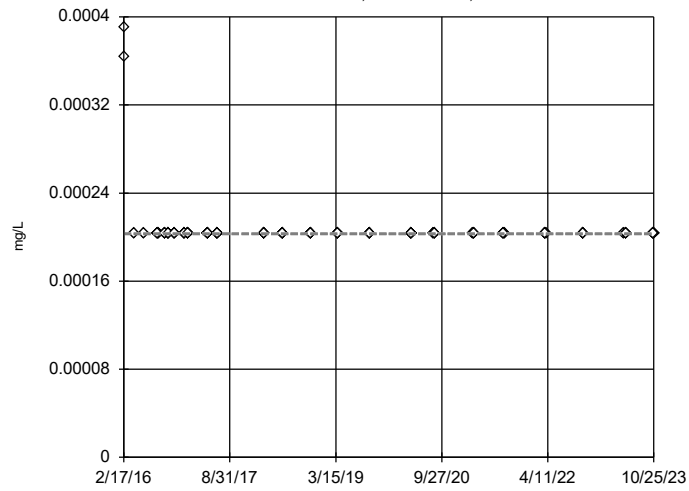
Data were  $x^6$  transformed to achieve best W statistic (graph shown in original units).

High cutoff = 109.2, low cutoff = -104.1, based on IQR multiplier of 3.

Constituent: TDS Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test  
 Plant Greene County Data: Greene County AP

### Tukey's Outlier Screening, Pooled Background

GC-AP-MW-23,GC-AP-MW-24,GC-AP-MW-26...



n = 147

No outliers found.  
Tukey's method selected by user.

Ladder of Powers transformations did not improve normality; analysis run on raw data.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 1/1/2024 5:19 PM View: Tukey's Outlier Test

Plant Greene County Data: Greene County AP

FIGURE D.

# Trend Tests - Upgradient Wells - Significant Results

Plant Greene County    Data: Greene County AP    Printed 1/1/2024, 4:54 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.078	-163	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	5.625	191	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.1453	-135	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.1205	-142	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-30 (bg)	-0.1081	-129	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.07075	-132	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-27 (bg)	0.06811	99	92	Yes	22	4.545	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (bg)	-0.07406	-194	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-24 (bg)	-0.05505	-148	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (bg)	-0.07473	-145	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (bg)	-0.0874	-119	-118	Yes	26	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (bg)	-0.3139	-187	-118	Yes	26	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (bg)	-0.08357	-164	-118	Yes	26	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.013	-167	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	12.44	129	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.4803	112	92	Yes	22	22.73	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.4682	121	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-5.823	-144	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	17.8	126	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-2.057	-121	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-1.199	-126	-92	Yes	22	63.64	n/a	n/a	0.01	NP

# Trend Tests - Upgradient Wells - All Results

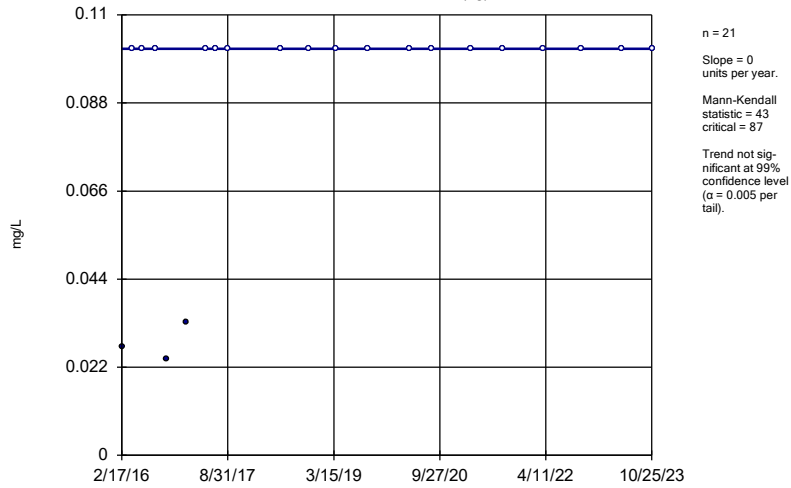
Plant Greene County Data: Greene County AP Printed 1/1/2024, 4:54 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-23 (bg)	0	43	87	No	21	85.71	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-24 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-26 (bg)	0	10	87	No	21	95.24	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-27 (bg)	0	27	87	No	21	90.48	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-28 (bg)	0	10	87	No	21	95.24	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-29 (bg)	0	14	87	No	21	95.24	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-30 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-2.078</b>	<b>-163</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-24 (bg)</b>	<b>5.625</b>	<b>191</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GC-AP-MW-26 (bg)	0.03942	3	92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (bg)	0.07088	75	92	No	22	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-28 (bg)</b>	<b>-0.1453</b>	<b>-135</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-29 (bg)</b>	<b>-0.1205</b>	<b>-142</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-30 (bg)</b>	<b>-0.1081</b>	<b>-129</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-0.07075</b>	<b>-132</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-24 (bg)	-0.04687	-24	-92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-26 (bg)	0.001905	3	92	No	22	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-27 (bg)</b>	<b>0.06811</b>	<b>99</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>4.545</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-28 (bg)	-0.05253	-78	-92	No	22	9.091	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-29 (bg)	-0.1764	-92	-92	No	22	9.091	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-30 (bg)	0.2257	80	92	No	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-23 (bg)	-0.0005071	-16	-92	No	22	9.091	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-24 (bg)	0	29	92	No	22	63.64	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-26 (bg)	-0.007827	-66	-68	No	18	44.44	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-27 (bg)	0	37	87	No	21	90.48	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-28 (bg)	0	-14	-87	No	21	80.95	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-29 (bg)	0	-1	-92	No	22	90.91	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-30 (bg)	0	21	92	No	22	95.45	n/a	n/a	0.01	NP
<b>pH (SU)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-0.07406</b>	<b>-194</b>	<b>-111</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH (SU)</b>	<b>GC-AP-MW-24 (bg)</b>	<b>-0.05505</b>	<b>-148</b>	<b>-111</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
pH (SU)	GC-AP-MW-26 (bg)	-0.08064	-93	-111	No	25	0	n/a	n/a	0.01	NP
<b>pH (SU)</b>	<b>GC-AP-MW-27 (bg)</b>	<b>-0.07473</b>	<b>-145</b>	<b>-111</b>	<b>Yes</b>	<b>25</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH (SU)</b>	<b>GC-AP-MW-28 (bg)</b>	<b>-0.0874</b>	<b>-119</b>	<b>-118</b>	<b>Yes</b>	<b>26</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH (SU)</b>	<b>GC-AP-MW-29 (bg)</b>	<b>-0.3139</b>	<b>-187</b>	<b>-118</b>	<b>Yes</b>	<b>26</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>pH (SU)</b>	<b>GC-AP-MW-30 (bg)</b>	<b>-0.08357</b>	<b>-164</b>	<b>-118</b>	<b>Yes</b>	<b>26</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-1.013</b>	<b>-167</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-24 (bg)</b>	<b>12.44</b>	<b>129</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GC-AP-MW-26 (bg)	-0.6758	-37	-92	No	22	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-27 (bg)</b>	<b>0.4803</b>	<b>112</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>22.73</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-28 (bg)</b>	<b>0.4682</b>	<b>121</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	GC-AP-MW-29 (bg)	0	33	92	No	22	45.45	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-30 (bg)	0	20	92	No	22	68.18	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-5.823</b>	<b>-144</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-24 (bg)</b>	<b>17.8</b>	<b>126</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-26 (bg)	-0.9865	-26	-92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-27 (bg)	0.4366	60	92	No	22	22.73	n/a	n/a	0.01	NP
<b>TDS (mg/L)</b>	<b>GC-AP-MW-28 (bg)</b>	<b>-2.057</b>	<b>-121</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>TDS (mg/L)</b>	<b>GC-AP-MW-29 (bg)</b>	<b>-1.199</b>	<b>-126</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>63.64</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
TDS (mg/L)	GC-AP-MW-30 (bg)	0.2789	32	92	No	22	27.27	n/a	n/a	0.01	NP



### Sen's Slope Estimator

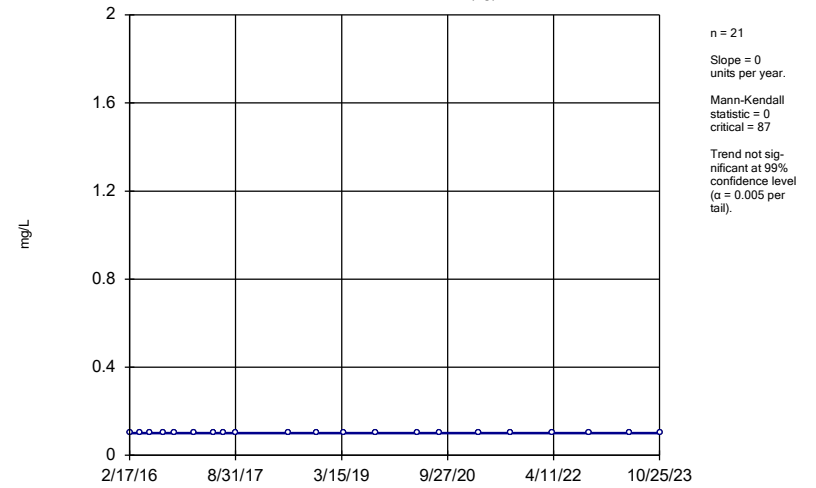
GC-AP-MW-23 (bg)



Constituent: Boron Analysis Run 1/1/2024 4:51 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

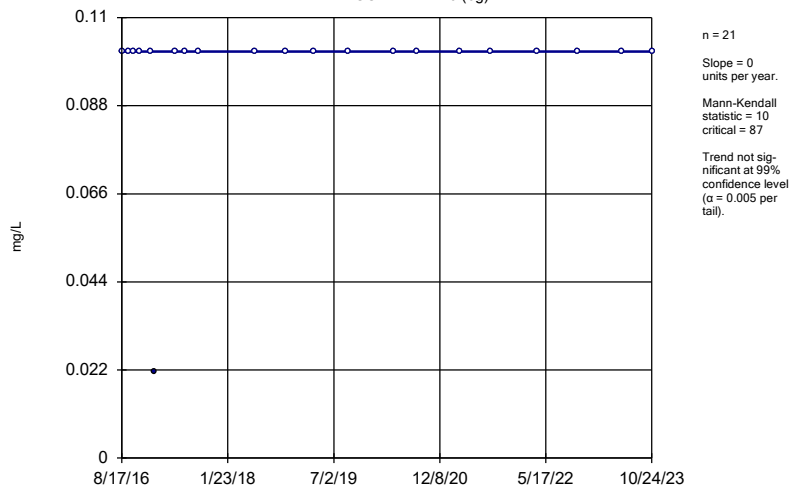
GC-AP-MW-24 (bg)



Constituent: Boron Analysis Run 1/1/2024 4:51 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

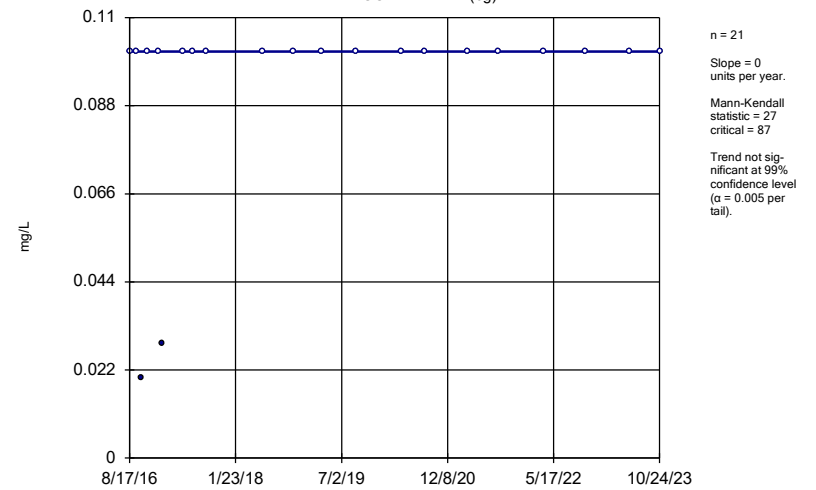
GC-AP-MW-26 (bg)



Constituent: Boron Analysis Run 1/1/2024 4:51 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

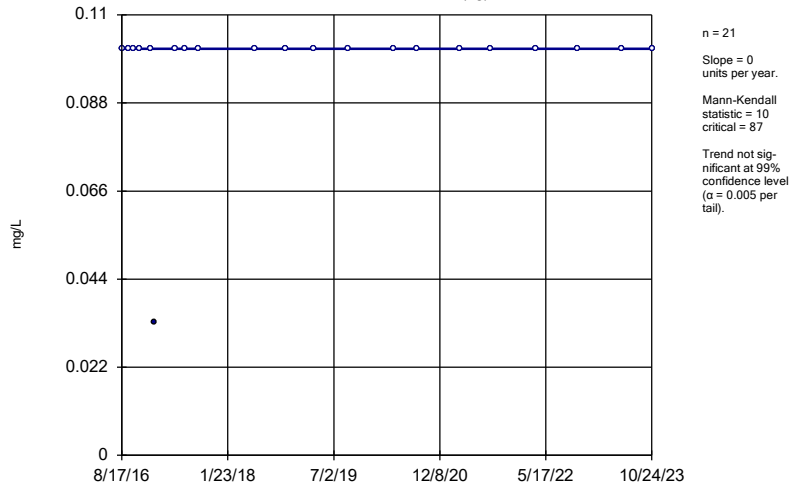
GC-AP-MW-27 (bg)



Constituent: Boron Analysis Run 1/1/2024 4:51 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

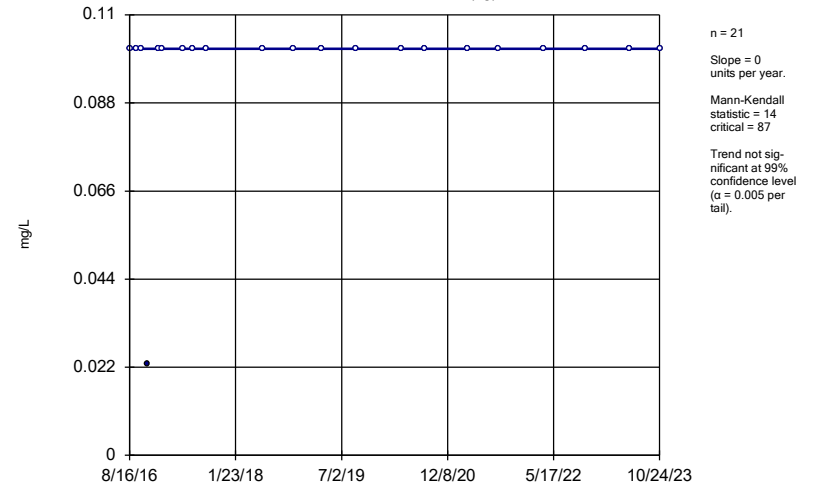
GC-AP-MW-28 (bg)



Constituent: Boron Analysis Run 1/1/2024 4:51 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

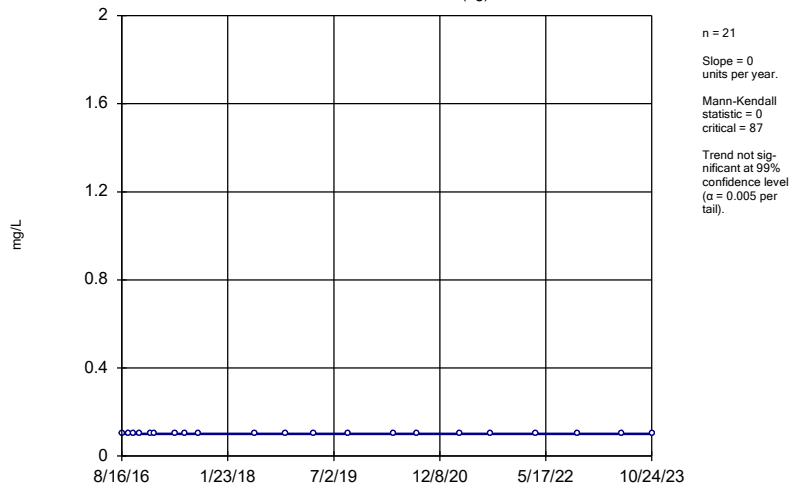
GC-AP-MW-29 (bg)



Constituent: Boron Analysis Run 1/1/2024 4:51 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

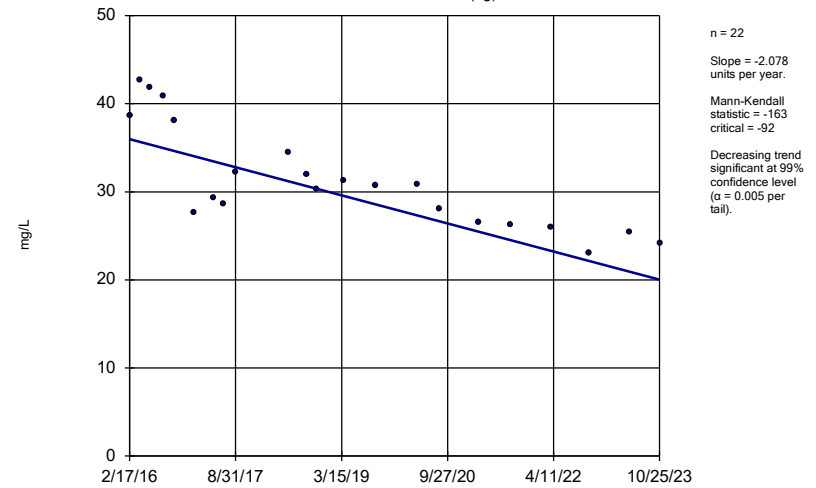
GC-AP-MW-30 (bg)



Constituent: Boron Analysis Run 1/1/2024 4:51 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

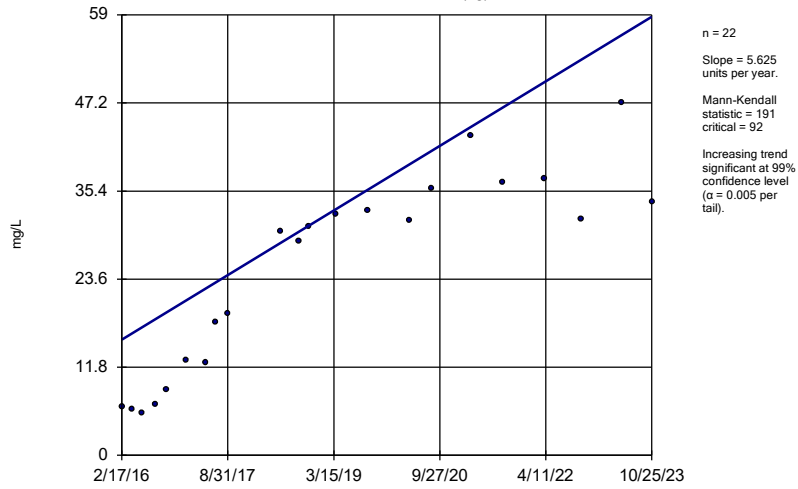
GC-AP-MW-23 (bg)



Constituent: Calcium Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

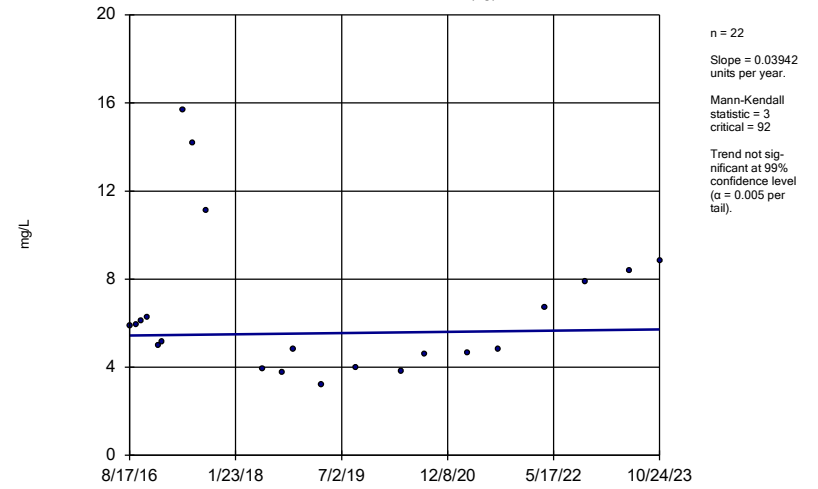
GC-AP-MW-24 (bg)



Constituent: Calcium Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

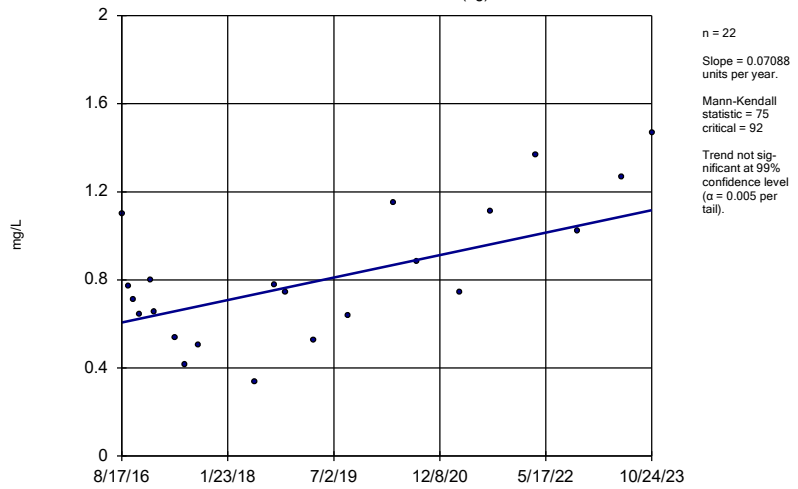
GC-AP-MW-26 (bg)



Constituent: Calcium Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

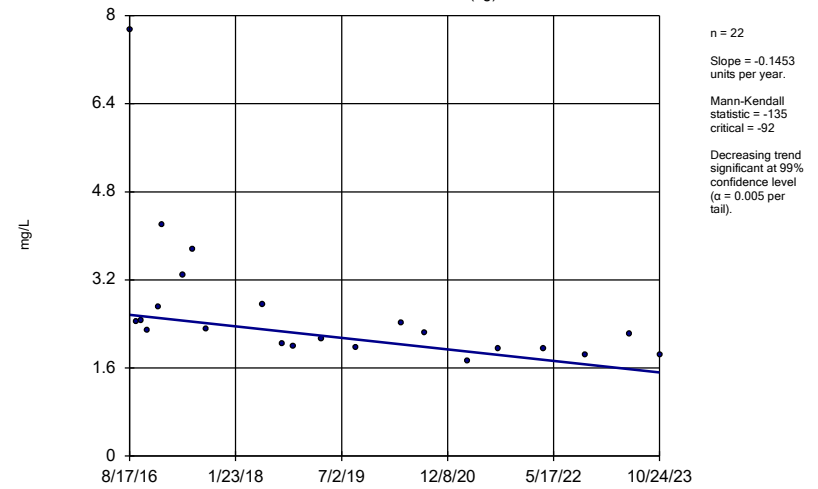
GC-AP-MW-27 (bg)



Constituent: Calcium Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

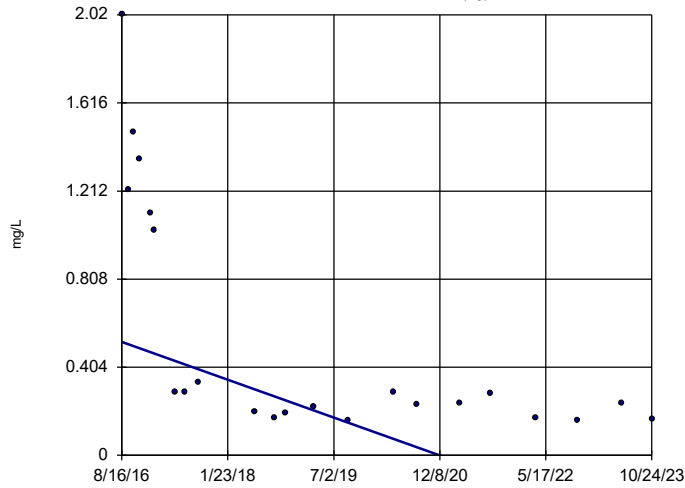
GC-AP-MW-28 (bg)



Constituent: Calcium Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-29 (bg)

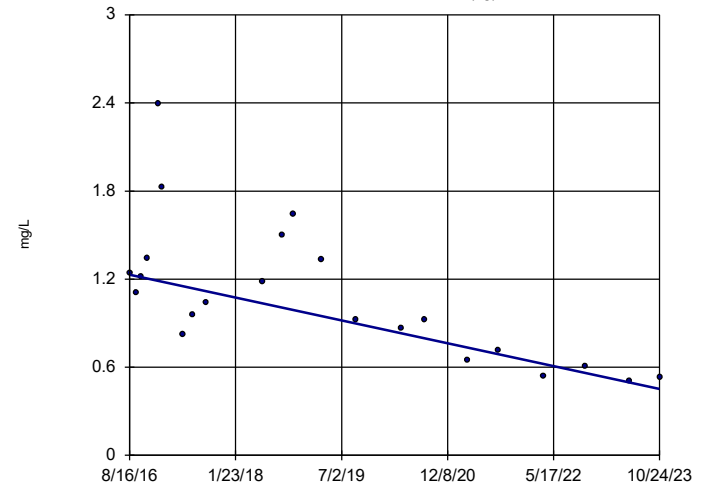


n = 22  
 Slope = -0.1205  
 units per year.  
 Mann-Kendall  
 statistic = -142  
 critical = -92  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
 Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-30 (bg)

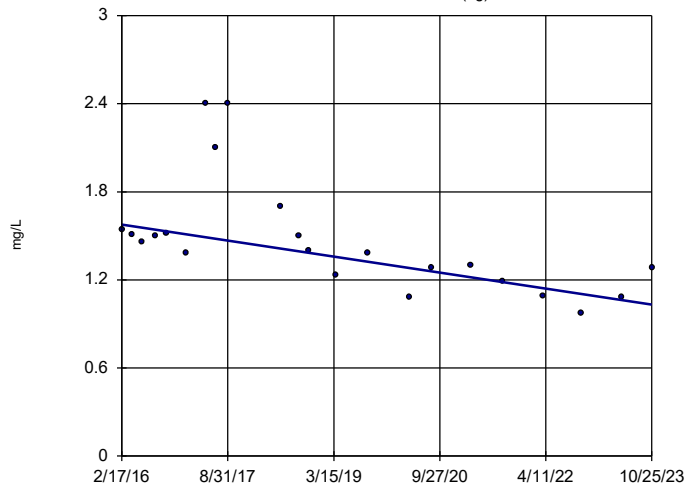


n = 22  
 Slope = -0.1081  
 units per year.  
 Mann-Kendall  
 statistic = -129  
 critical = -92  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
 Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-23 (bg)

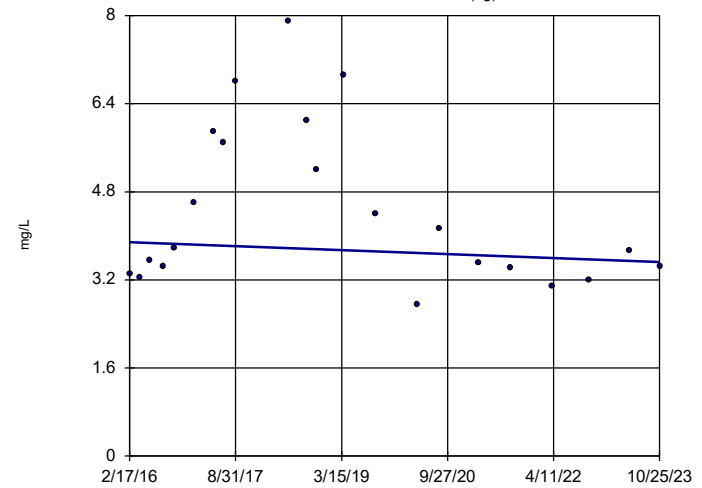


n = 22  
 Slope = -0.07075  
 units per year.  
 Mann-Kendall  
 statistic = -132  
 critical = -92  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
 Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-24 (bg)

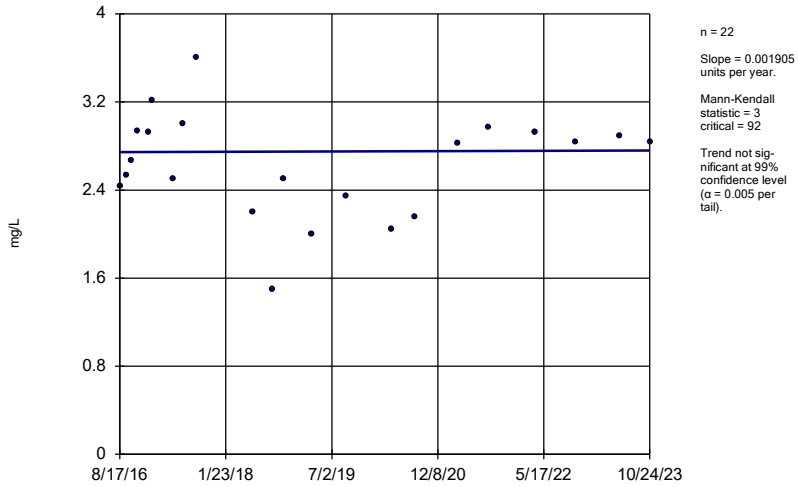


n = 22  
 Slope = -0.04687  
 units per year.  
 Mann-Kendall  
 statistic = -24  
 critical = -92  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
 Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-26 (bg)

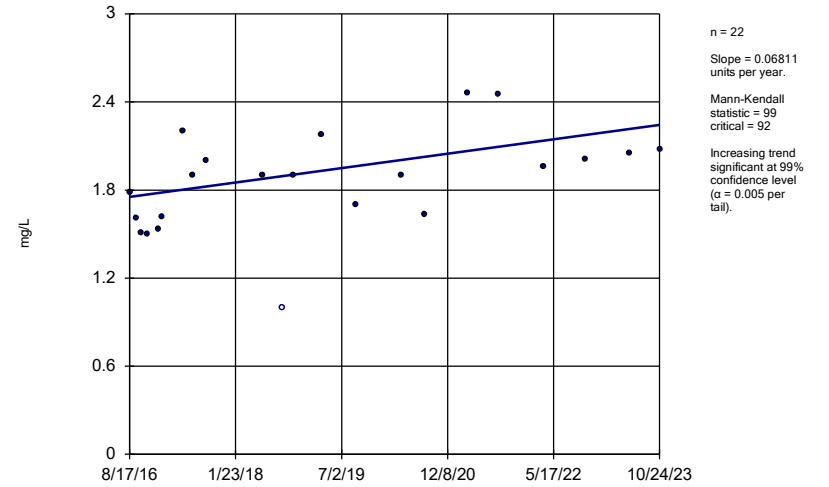


Constituent: Chloride Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

GC-AP-MW-27 (bg)

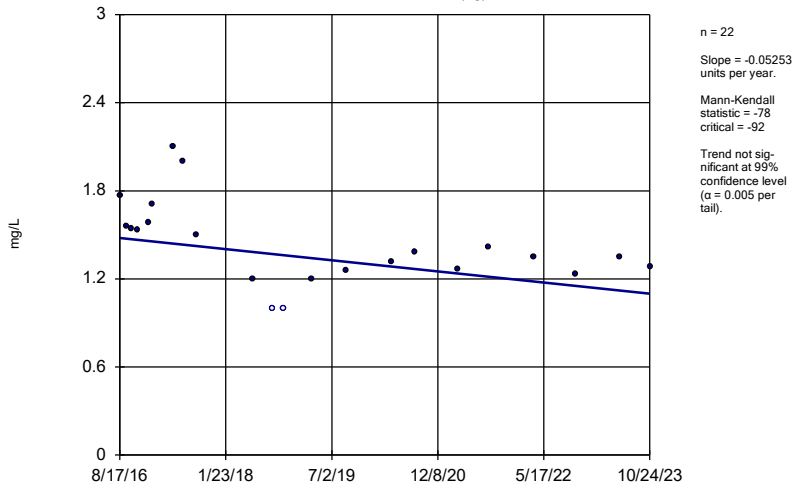


Constituent: Chloride Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

GC-AP-MW-28 (bg)

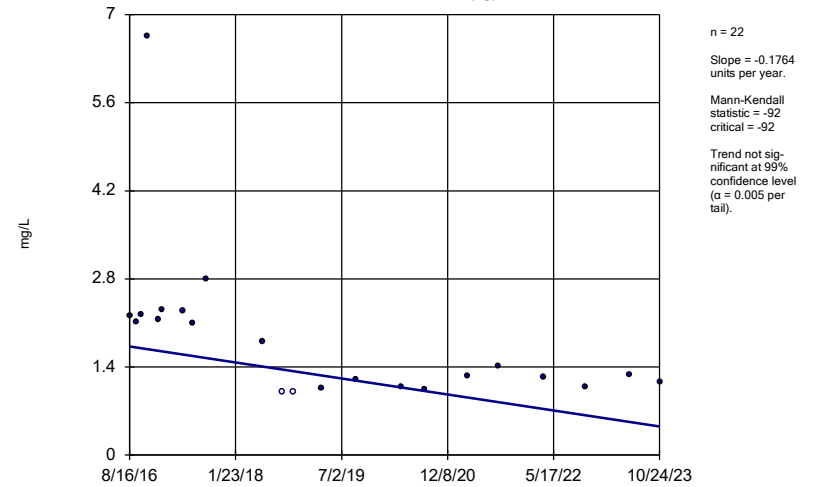


Constituent: Chloride Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

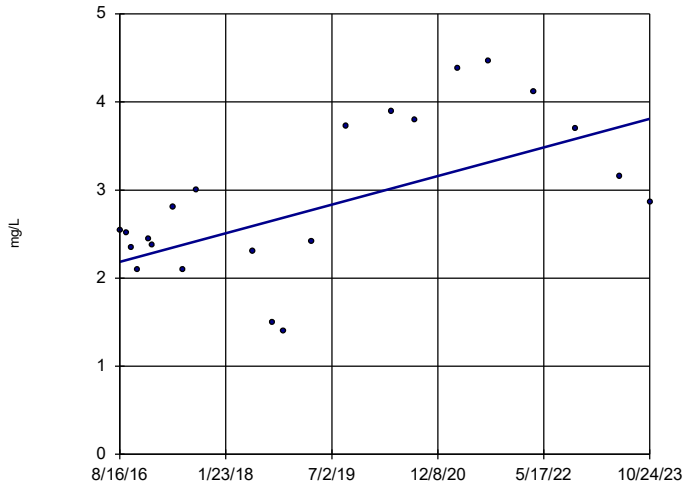
GC-AP-MW-29 (bg)



Constituent: Chloride Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-30 (bg)



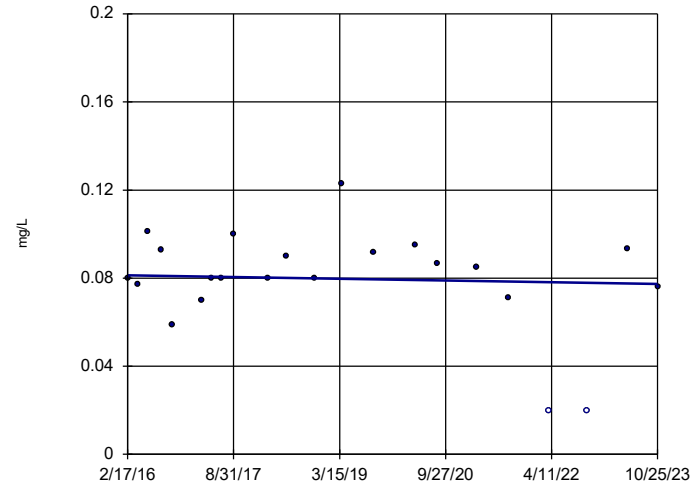
n = 22  
 Slope = 0.2257  
 units per year.  
 Mann-Kendall  
 statistic = 80  
 critical = 92  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
 Plant Greene County Data: Greene County AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

GC-AP-MW-23 (bg)



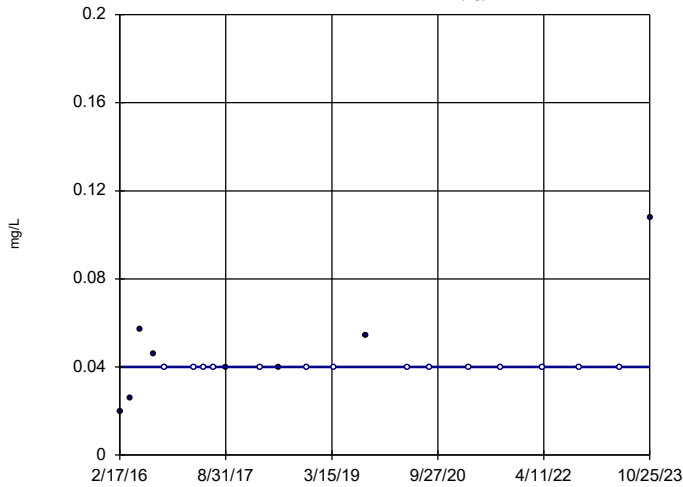
n = 22  
 Slope = -0.0005071  
 units per year.  
 Mann-Kendall  
 statistic = -16  
 critical = -92  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Fluoride Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
 Plant Greene County Data: Greene County AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

GC-AP-MW-24 (bg)



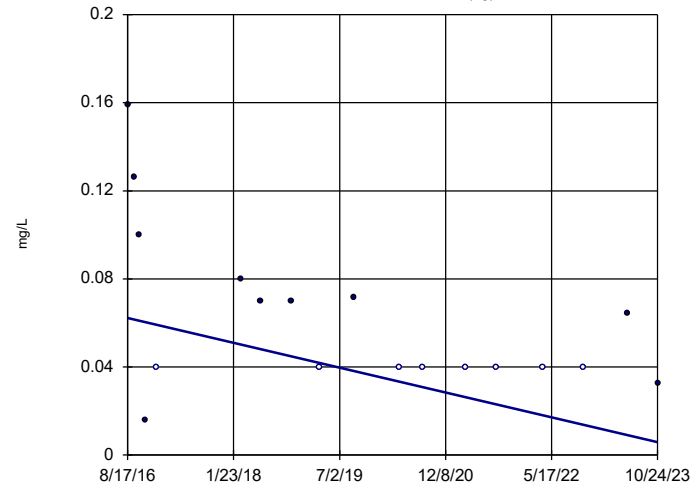
n = 22  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 29  
 critical = 92  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Fluoride Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
 Plant Greene County Data: Greene County AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

GC-AP-MW-26 (bg)

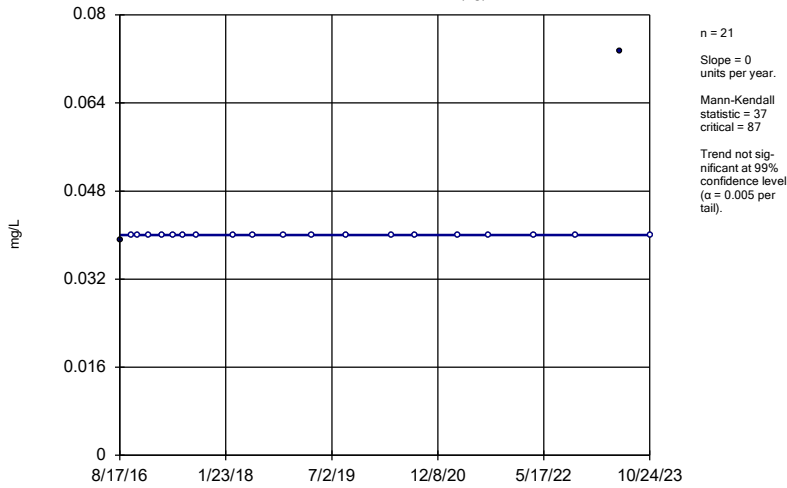


n = 18  
 Slope = -0.007827  
 units per year.  
 Mann-Kendall  
 statistic = -66  
 critical = -68  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Fluoride Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
 Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

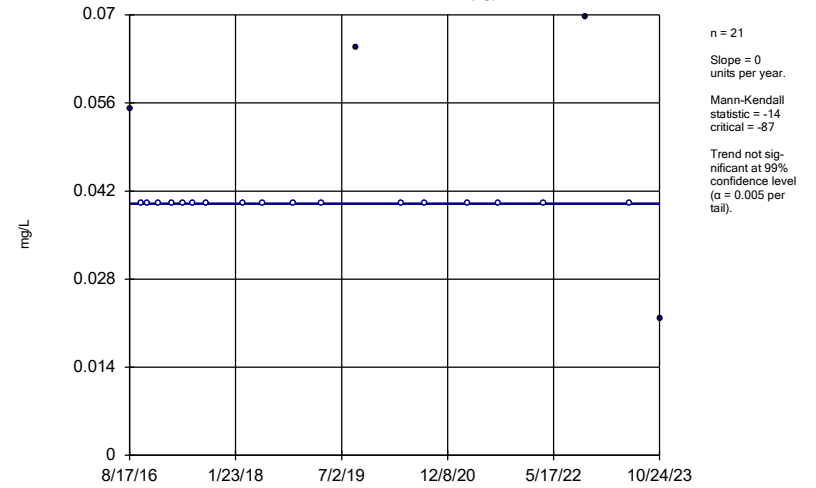
GC-AP-MW-27 (bg)



Constituent: Fluoride Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

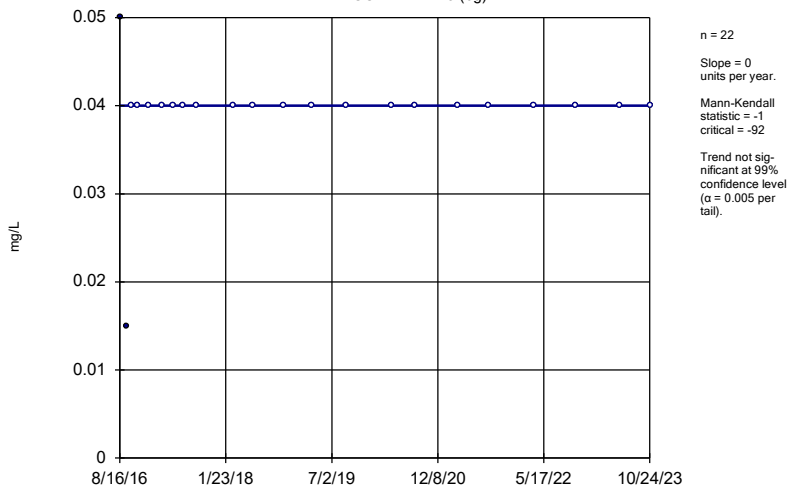
GC-AP-MW-28 (bg)



Constituent: Fluoride Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

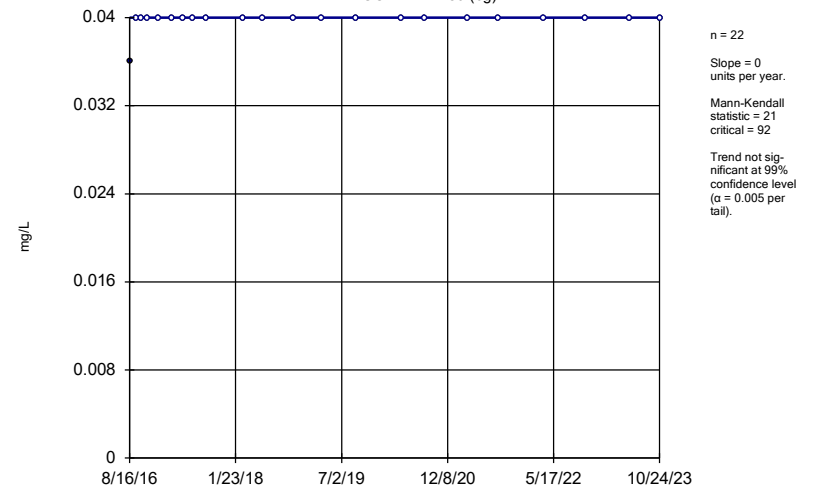
GC-AP-MW-29 (bg)



Constituent: Fluoride Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

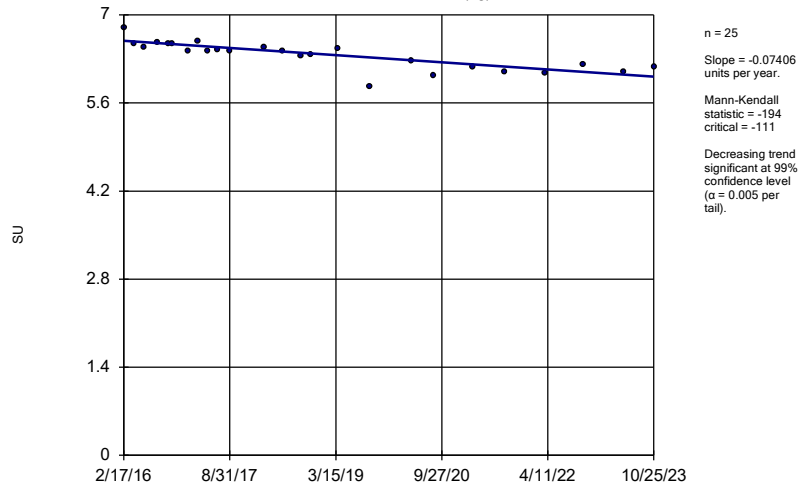
GC-AP-MW-30 (bg)



Constituent: Fluoride Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

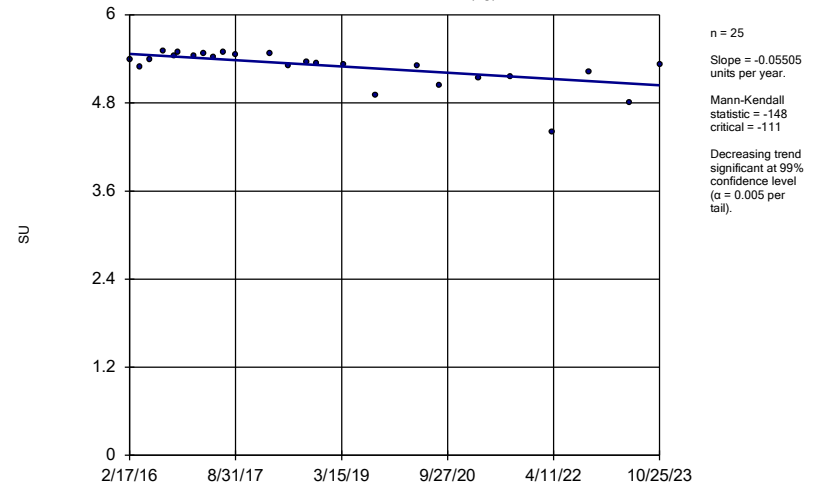
GC-AP-MW-23 (bg)



Constituent: pH Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

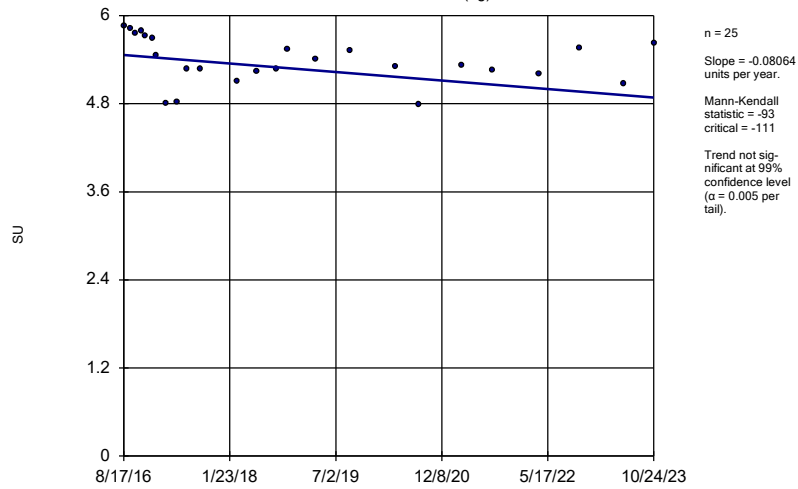
GC-AP-MW-24 (bg)



Constituent: pH Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

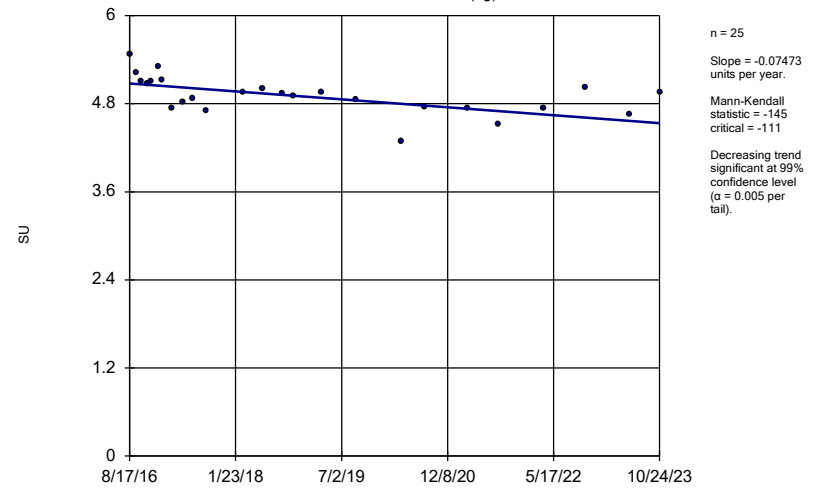
GC-AP-MW-26 (bg)



Constituent: pH Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-27 (bg)

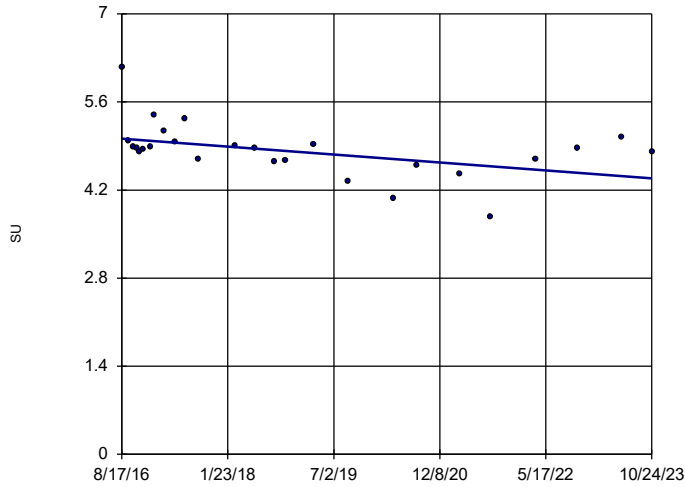


Constituent: pH Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP



### Sen's Slope Estimator

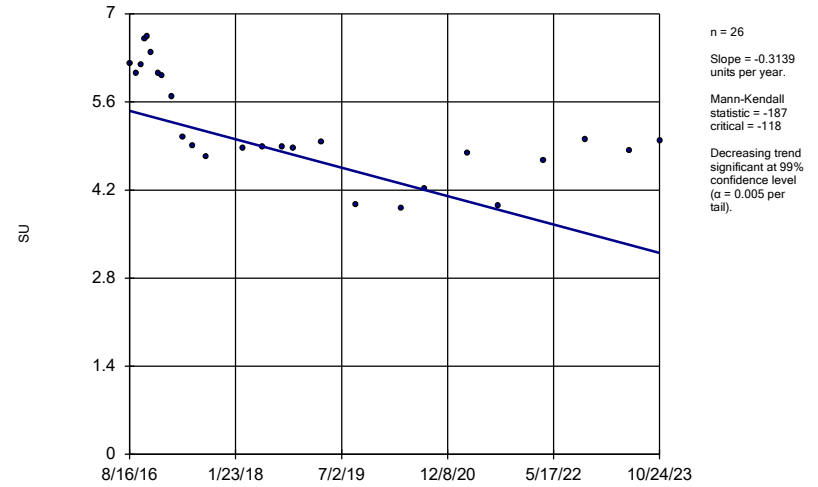
GC-AP-MW-28 (bg)



Constituent: pH Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

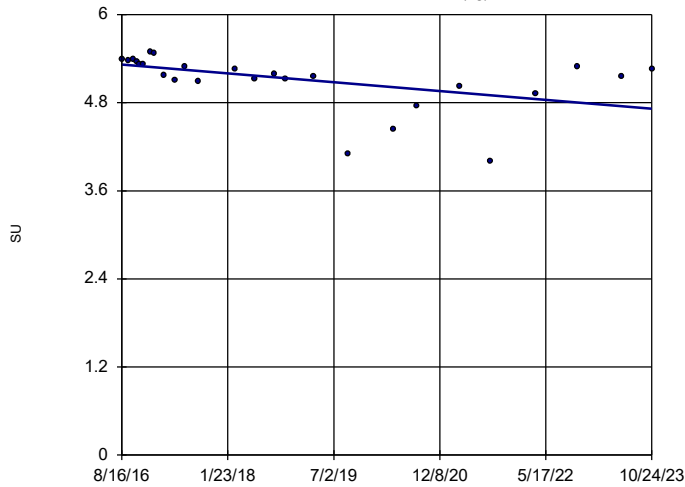
GC-AP-MW-29 (bg)



Constituent: pH Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

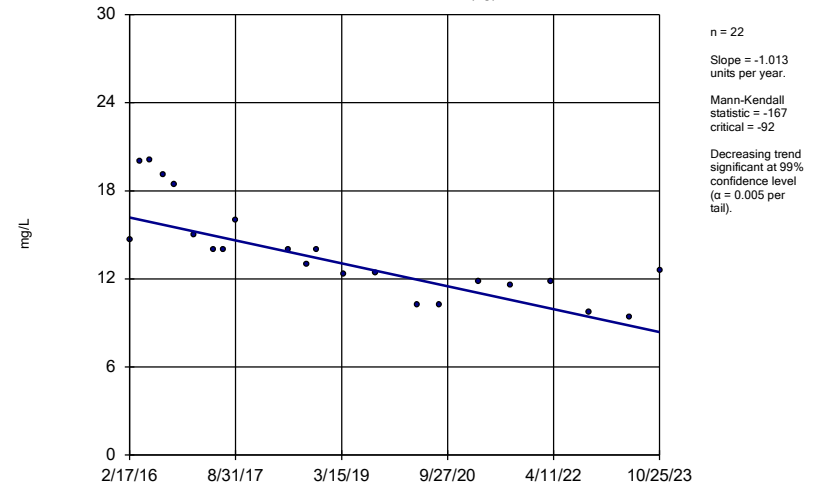
GC-AP-MW-30 (bg)



Constituent: pH Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

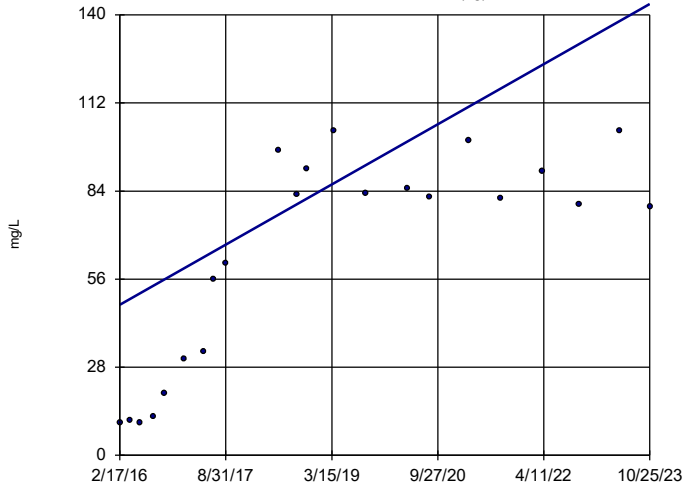
GC-AP-MW-23 (bg)



Constituent: Sulfate Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

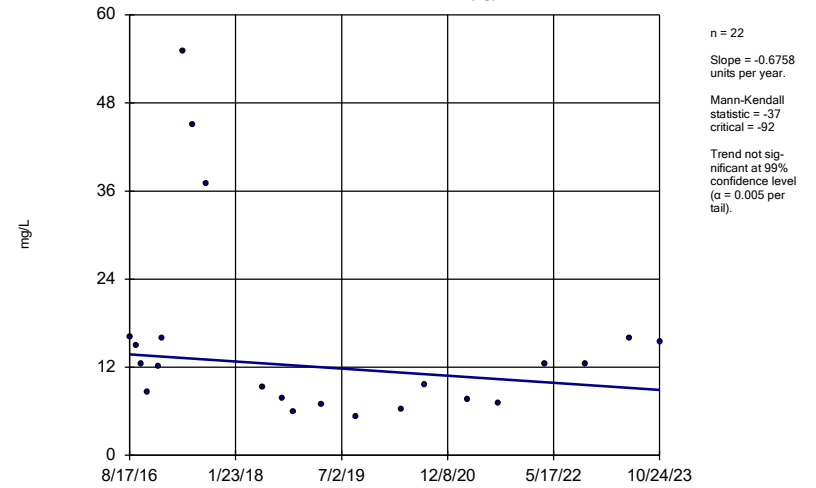
GC-AP-MW-24 (bg)



Constituent: Sulfate Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

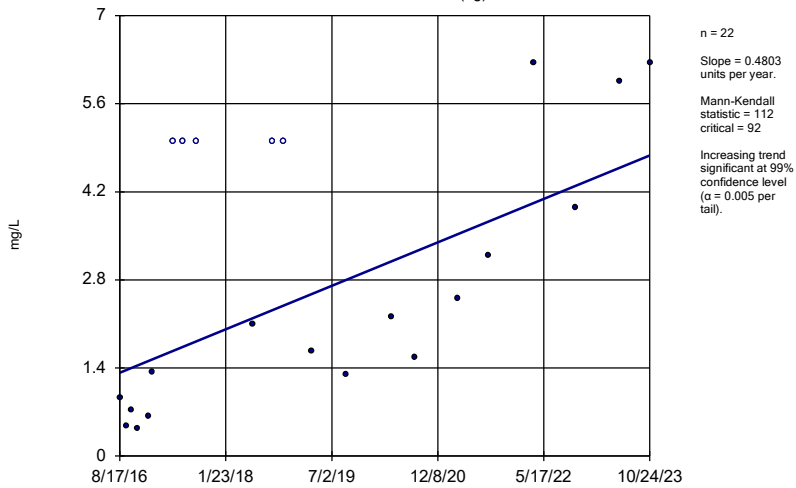
GC-AP-MW-26 (bg)



Constituent: Sulfate Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

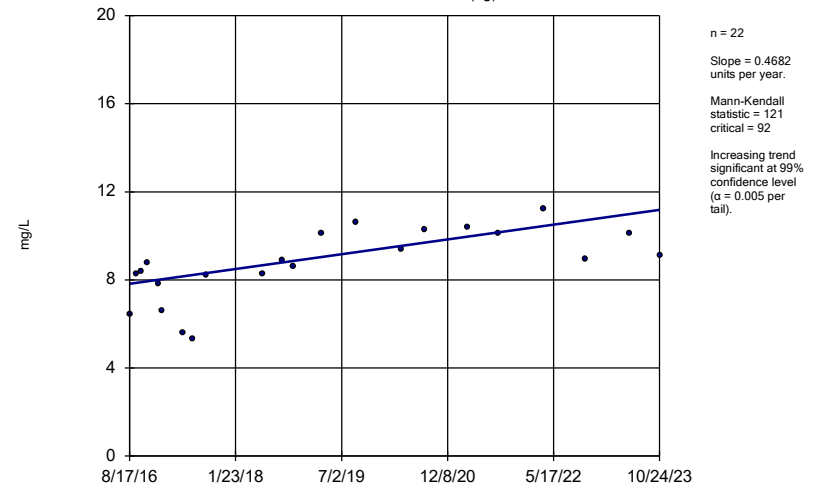
GC-AP-MW-27 (bg)



Constituent: Sulfate Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

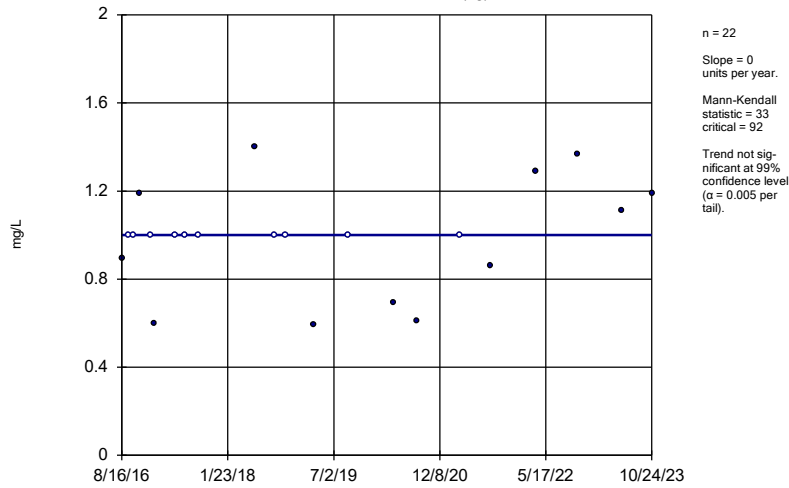
GC-AP-MW-28 (bg)



Constituent: Sulfate Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

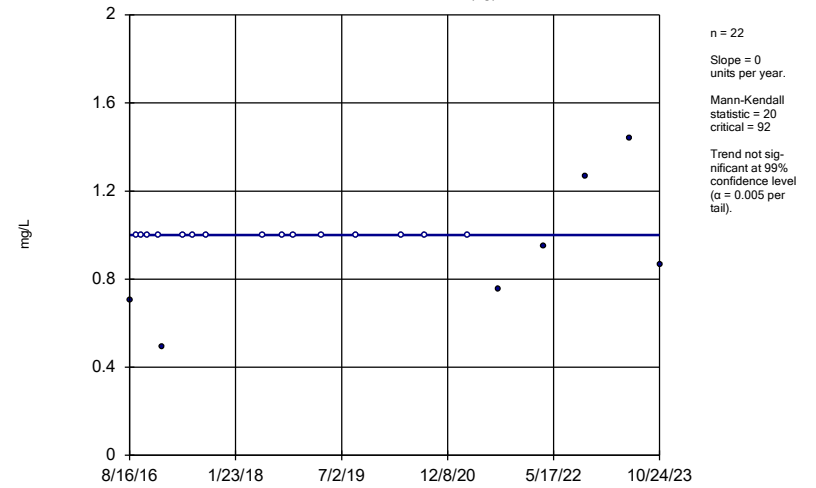
GC-AP-MW-29 (bg)



Constituent: Sulfate Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
 Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

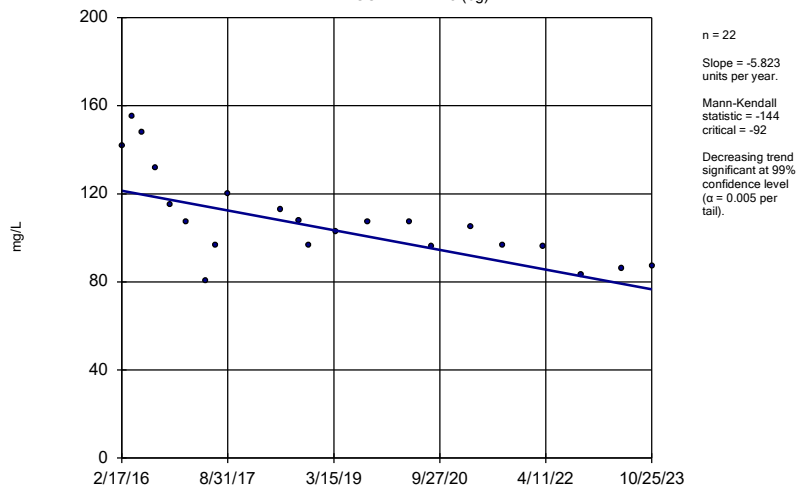
GC-AP-MW-30 (bg)



Constituent: Sulfate Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
 Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

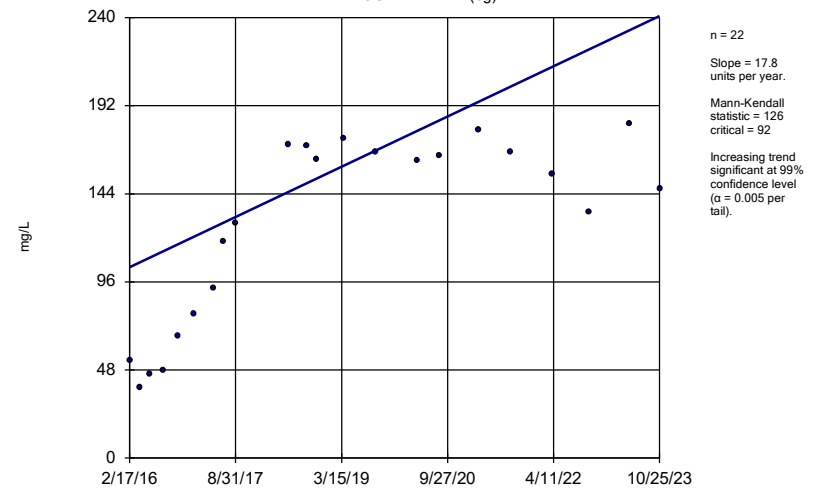
GC-AP-MW-23 (bg)



Constituent: TDS Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
 Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

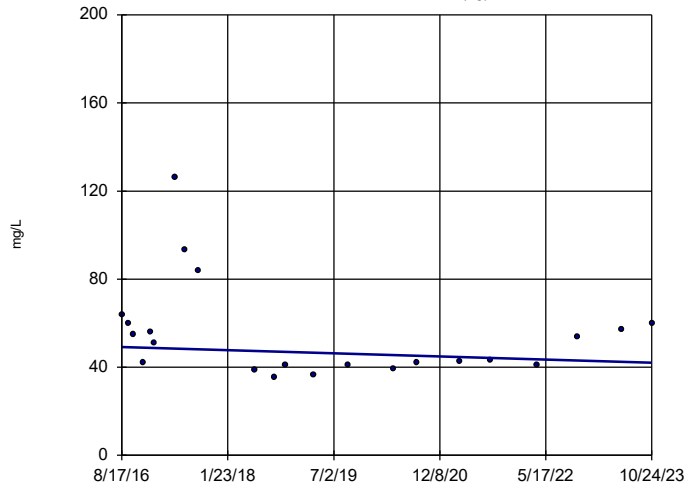
GC-AP-MW-24 (bg)



Constituent: TDS Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
 Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-26 (bg)

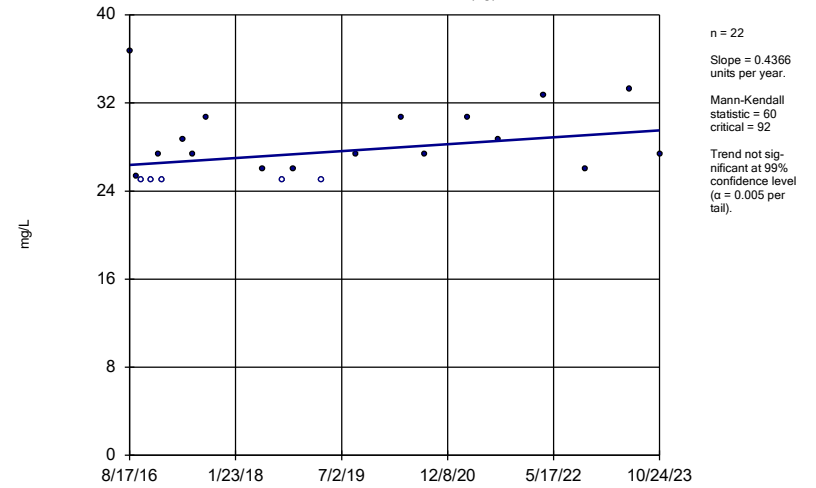


Constituent: TDS Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

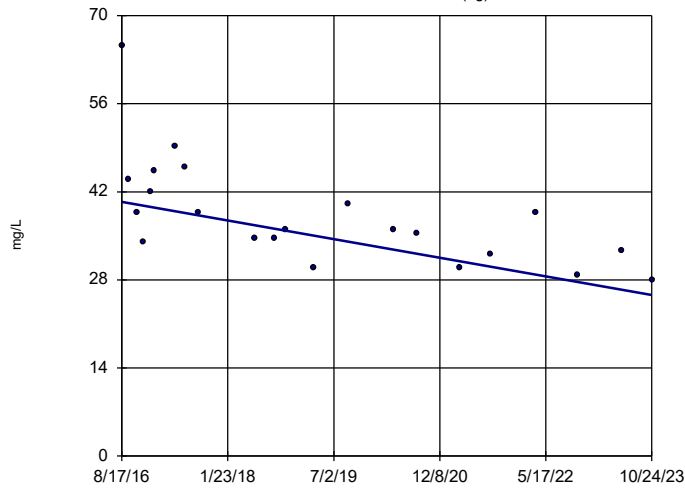
GC-AP-MW-27 (bg)



Constituent: TDS Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-28 (bg)

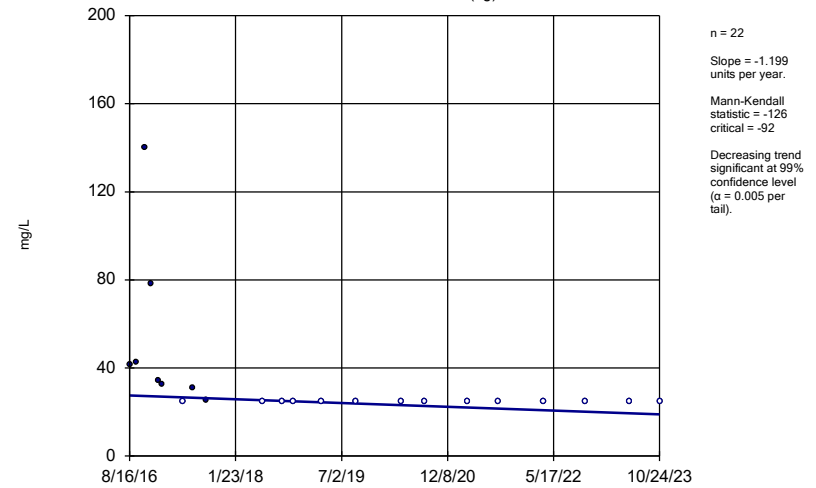


Constituent: TDS Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

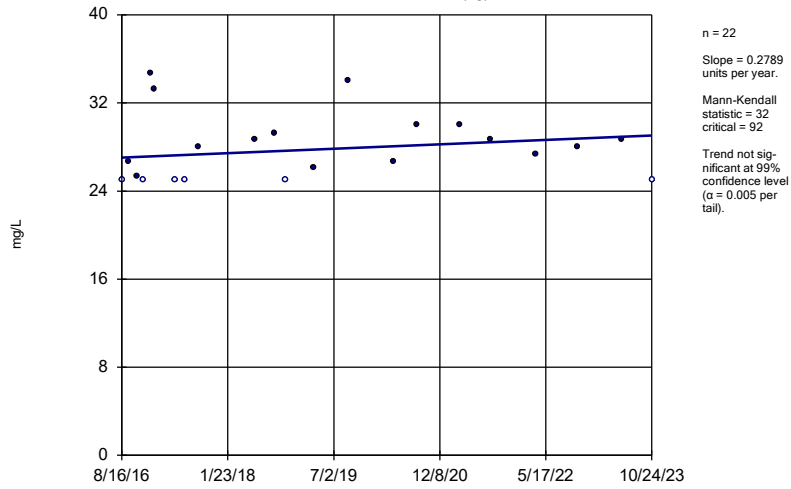
GC-AP-MW-29 (bg)



Constituent: TDS Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-30 (bg)



Constituent: TDS Analysis Run 1/1/2024 4:52 PM View: Appendix III Trend Test - Upgradient Wells  
Plant Greene County Data: Greene County AP

FIGURE E.

# Appendix III Interwell Prediction Limits - Significant Results

Plant Greene County Data: Greene County AP Printed 1/3/2024, 8:25 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.1015	n/a	10/24/2023	0.231	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	11/1/2023	2.23	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	10/25/2023	0.625	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	10/25/2023	0.272	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	10/25/2023	0.465	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	11/1/2023	2.17	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	10/24/2023	0.877	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	10/25/2023	1.99	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	10/23/2023	2.21	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	10/23/2023	1.07	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	10/24/2023	0.143	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	10/25/2023	0.315	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	11/1/2023	0.115	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	10/24/2023	0.552	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	10/25/2023	0.93	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	10/25/2023	0.709	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	10/25/2023	1.13	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	47.3	n/a	10/24/2023	122	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	47.3	n/a	11/1/2023	105	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-11	47.3	n/a	10/25/2023	62.4	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	47.3	n/a	11/1/2023	152	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	47.3	n/a	10/24/2023	87.4	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	47.3	n/a	10/25/2023	121	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	47.3	n/a	10/23/2023	147	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	47.3	n/a	10/23/2023	77.5	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	47.3	n/a	10/24/2023	201	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	47.3	n/a	10/24/2023	64.4	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	47.3	n/a	10/24/2023	101	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	47.3	n/a	10/25/2023	147	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	47.3	n/a	10/25/2023	170	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	47.3	n/a	10/25/2023	92.7	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	47.3	n/a	10/25/2023	82	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.751	n/a	10/24/2023	39.5	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-10	5.751	n/a	11/1/2023	15.3	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-11	5.751	n/a	10/25/2023	19.1	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-13	5.751	n/a	10/25/2023	11.4	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-14	5.751	n/a	11/1/2023	10.1	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-15	5.751	n/a	10/24/2023	9.61	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-16	5.751	n/a	10/25/2023	8.33	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-17	5.751	n/a	10/23/2023	10	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-18	5.751	n/a	10/23/2023	23.7	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-2	5.751	n/a	10/24/2023	10.7	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-21	5.751	n/a	10/25/2023	6.93	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-25	5.751	n/a	11/1/2023	26.9	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-3	5.751	n/a	10/24/2023	21	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-31	5.751	n/a	10/30/2023	7.37	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-5	5.751	n/a	10/24/2023	10.7	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-6	5.751	n/a	10/25/2023	40.5	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-7	5.751	n/a	10/25/2023	170	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-8	5.751	n/a	10/25/2023	69.9	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-9	5.751	n/a	10/25/2023	62.3	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	11/1/2023	0.222	Yes	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-12	0.159	n/a	10/25/2023	0.165	Yes	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-14	0.159	n/a	11/1/2023	0.256	Yes	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-16	0.159	n/a	10/25/2023	0.276	Yes	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-17	0.159	n/a	10/23/2023	0.515	Yes	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-18	0.159	n/a	10/23/2023	0.164	Yes	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-3	0.159	n/a	10/24/2023	0.166	Yes	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-5	0.159	n/a	10/24/2023	0.208	Yes	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-10	6.49	3.78	11/1/2023	6.91	Yes	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-12	6.49	3.78	10/25/2023	6.77	Yes	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-14	6.49	3.78	11/1/2023	6.8	Yes	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-16	6.49	3.78	10/25/2023	6.53	Yes	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-17	6.49	3.78	10/23/2023	6.63	Yes	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-5	6.49	3.78	10/24/2023	6.61	Yes	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-7	6.49	3.78	10/25/2023	6.57	Yes	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-1	103	n/a	10/24/2023	714	Yes	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-10	103	n/a	11/1/2023	124	Yes	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2

# Appendix III Interwell Prediction Limits - Significant Results

Plant Greene County Data: Greene County AP Printed 1/3/2024, 8:25 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	GC-AP-MW-11	103	n/a	10/25/2023	165	Yes	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-14	103	n/a	11/1/2023	135	Yes	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-15	103	n/a	10/24/2023	128	Yes	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-2	103	n/a	10/24/2023	606	Yes	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-5	103	n/a	10/24/2023	150	Yes	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-6	103	n/a	10/25/2023	203	Yes	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-7	103	n/a	10/25/2023	257	Yes	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-1	182	n/a	10/24/2023	1260	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-10	182	n/a	11/1/2023	452	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-11	182	n/a	10/25/2023	374	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-12	182	n/a	10/25/2023	189	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-13	182	n/a	10/25/2023	189	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	182	n/a	11/1/2023	653	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	182	n/a	10/24/2023	409	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	182	n/a	10/25/2023	449	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	182	n/a	10/23/2023	652	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	182	n/a	10/23/2023	376	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	182	n/a	10/24/2023	1020	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	182	n/a	10/25/2023	205	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	182	n/a	11/1/2023	251	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	182	n/a	10/24/2023	332	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	182	n/a	10/24/2023	462	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-6	182	n/a	10/25/2023	790	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	182	n/a	10/25/2023	1010	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	182	n/a	10/25/2023	702	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	182	n/a	10/25/2023	525	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2



# Appendix III Interwell Prediction Limits - All Results

Plant Greene County Data: Greene County AP Printed 1/3/2024, 8:25 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.1015	n/a	10/24/2023	0.231	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-10	0.1015	n/a	11/1/2023	2.23	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-11	0.1015	n/a	10/25/2023	0.625	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-12	0.1015	n/a	10/25/2023	0.272	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-13	0.1015	n/a	10/25/2023	0.465	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-14	0.1015	n/a	11/1/2023	2.17	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-15	0.1015	n/a	10/24/2023	0.877	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-16	0.1015	n/a	10/25/2023	1.99	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-17	0.1015	n/a	10/23/2023	2.21	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-18	0.1015	n/a	10/23/2023	1.07	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-2	0.1015	n/a	10/24/2023	0.143	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-21	0.1015	n/a	10/25/2023	0.315	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-25	0.1015	n/a	11/1/2023	0.115	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-3	0.1015	n/a	10/24/2023	0.0481J	No	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-31	0.1015	n/a	10/30/2023	0.1015ND	No	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-32	0.1015	n/a	10/30/2023	0.1015ND	No	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-33	0.1015	n/a	10/30/2023	0.1015ND	No	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-5	0.1015	n/a	10/24/2023	0.552	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-6	0.1015	n/a	10/25/2023	0.93	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-7	0.1015	n/a	10/25/2023	0.0465J	No	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-8	0.1015	n/a	10/25/2023	0.709	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Boron (mg/L)	GC-AP-MW-9	0.1015	n/a	10/25/2023	1.13	Yes	147	n/a	n/a	94.56	n/a	n/a	n/a	0.00009089	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GC-AP-MW-1	47.3	n/a	10/24/2023	122	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-10	47.3	n/a	11/1/2023	105	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-11	47.3	n/a	10/25/2023	62.4	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-12	47.3	n/a	10/25/2023	33.1	No	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-13	47.3	n/a	10/25/2023	24.3	No	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-14	47.3	n/a	11/1/2023	152	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-15	47.3	n/a	10/24/2023	87.4	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-16	47.3	n/a	10/25/2023	121	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-17	47.3	n/a	10/23/2023	147	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-18	47.3	n/a	10/23/2023	77.5	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-2	47.3	n/a	10/24/2023	201	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-21	47.3	n/a	10/25/2023	30.9	No	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-25	47.3	n/a	11/1/2023	31.1	No	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-3	47.3	n/a	10/24/2023	64.4	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-31	47.3	n/a	10/30/2023	7.22	No	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-32	47.3	n/a	10/30/2023	10.5	No	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-33	47.3	n/a	10/30/2023	2.11	No	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-5	47.3	n/a	10/24/2023	101	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-6	47.3	n/a	10/25/2023	147	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-7	47.3	n/a	10/25/2023	170	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-8	47.3	n/a	10/25/2023	92.7	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Calcium (mg/L)	GC-AP-MW-9	47.3	n/a	10/25/2023	82	Yes	154	n/a	n/a	0	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Chloride (mg/L)	GC-AP-MW-1	5.751	n/a	10/24/2023	39.5	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-10	5.751	n/a	11/1/2023	15.3	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-11	5.751	n/a	10/25/2023	19.1	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-12	5.751	n/a	10/25/2023	4.69	No	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-13	5.751	n/a	10/25/2023	11.4	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-14	5.751	n/a	11/1/2023	10.1	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-15	5.751	n/a	10/24/2023	9.61	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-16	5.751	n/a	10/25/2023	8.33	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-17	5.751	n/a	10/23/2023	10	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-18	5.751	n/a	10/23/2023	23.7	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-2	5.751	n/a	10/24/2023	10.7	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-21	5.751	n/a	10/25/2023	6.93	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-25	5.751	n/a	11/1/2023	26.9	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-3	5.751	n/a	10/24/2023	21	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-31	5.751	n/a	10/30/2023	7.37	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-32	5.751	n/a	10/30/2023	3.92	No	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-33	5.751	n/a	10/30/2023	3.92	No	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-5	5.751	n/a	10/24/2023	10.7	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-6	5.751	n/a	10/25/2023	40.5	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-7	5.751	n/a	10/25/2023	170	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-8	5.751	n/a	10/25/2023	69.9	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Chloride (mg/L)	GC-AP-MW-9	5.751	n/a	10/25/2023	62.3	Yes	154	0.7433	0.475	3.247	None	ln(x)	0.000342	Param Inter 1 of 2	
Fluoride (mg/L)	GC-AP-MW-1	0.159	n/a	10/24/2023	0.0372J	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-10	0.159	n/a	11/1/2023	0.222	Yes	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2

# Appendix III Interwell Prediction Limits - All Results

Plant Greene County    Data: Greene County AP    Printed 1/3/2024, 8:25 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GC-AP-MW-11	0.159	n/a	10/25/2023	0.141	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-12</b>	<b>0.159</b>	<b>n/a</b>	<b>10/25/2023</b>	<b>0.165</b>	<b>Yes</b>	<b>148</b>	<b>n/a</b>	<b>n/a</b>	<b>68.24</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008975</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride (mg/L)	GC-AP-MW-13	0.159	n/a	10/25/2023	0.149	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.159</b>	<b>n/a</b>	<b>11/1/2023</b>	<b>0.256</b>	<b>Yes</b>	<b>148</b>	<b>n/a</b>	<b>n/a</b>	<b>68.24</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008975</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride (mg/L)	GC-AP-MW-15	0.159	n/a	10/24/2023	0.144	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>0.159</b>	<b>n/a</b>	<b>10/25/2023</b>	<b>0.276</b>	<b>Yes</b>	<b>148</b>	<b>n/a</b>	<b>n/a</b>	<b>68.24</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008975</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>0.159</b>	<b>n/a</b>	<b>10/23/2023</b>	<b>0.515</b>	<b>Yes</b>	<b>148</b>	<b>n/a</b>	<b>n/a</b>	<b>68.24</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008975</b>	<b>NP Inter (NDs) 1 of 2</b>
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-18</b>	<b>0.159</b>	<b>n/a</b>	<b>10/23/2023</b>	<b>0.164</b>	<b>Yes</b>	<b>148</b>	<b>n/a</b>	<b>n/a</b>	<b>68.24</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008975</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride (mg/L)	GC-AP-MW-2	0.159	n/a	10/24/2023	0.06	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-21	0.159	n/a	10/25/2023	0.0861	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-25	0.159	n/a	11/1/2023	0.0861	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-3</b>	<b>0.159</b>	<b>n/a</b>	<b>10/24/2023</b>	<b>0.166</b>	<b>Yes</b>	<b>148</b>	<b>n/a</b>	<b>n/a</b>	<b>68.24</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008975</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride (mg/L)	GC-AP-MW-31	0.159	n/a	10/30/2023	0.0258J	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-32	0.159	n/a	10/30/2023	0.0401	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-33	0.159	n/a	10/30/2023	0.064	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
<b>Fluoride (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>0.159</b>	<b>n/a</b>	<b>10/24/2023</b>	<b>0.208</b>	<b>Yes</b>	<b>148</b>	<b>n/a</b>	<b>n/a</b>	<b>68.24</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008975</b>	<b>NP Inter (NDs) 1 of 2</b>
Fluoride (mg/L)	GC-AP-MW-6	0.159	n/a	10/25/2023	0.143	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-7	0.159	n/a	10/25/2023	0.0713	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-8	0.159	n/a	10/25/2023	0.105	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	GC-AP-MW-9	0.159	n/a	10/25/2023	0.104	No	148	n/a	n/a	68.24	n/a	n/a	n/a	0.00008975	NP Inter (NDs) 1 of 2
pH (SU)	GC-AP-MW-1	6.49	3.78	10/24/2023	5.66	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
<b>pH (SU)</b>	<b>GC-AP-MW-10</b>	<b>6.49</b>	<b>3.78</b>	<b>11/1/2023</b>	<b>6.91</b>	<b>Yes</b>	<b>144</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001886</b>	<b>NP Inter (normality) 1 of 2</b>
pH (SU)	GC-AP-MW-11	6.49	3.78	10/25/2023	6.36	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
<b>pH (SU)</b>	<b>GC-AP-MW-12</b>	<b>6.49</b>	<b>3.78</b>	<b>10/25/2023</b>	<b>6.77</b>	<b>Yes</b>	<b>144</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001886</b>	<b>NP Inter (normality) 1 of 2</b>
pH (SU)	GC-AP-MW-13	6.49	3.78	10/25/2023	6.47	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
<b>pH (SU)</b>	<b>GC-AP-MW-14</b>	<b>6.49</b>	<b>3.78</b>	<b>11/1/2023</b>	<b>6.8</b>	<b>Yes</b>	<b>144</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001886</b>	<b>NP Inter (normality) 1 of 2</b>
pH (SU)	GC-AP-MW-15	6.49	3.78	10/24/2023	6.29	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
<b>pH (SU)</b>	<b>GC-AP-MW-16</b>	<b>6.49</b>	<b>3.78</b>	<b>10/25/2023</b>	<b>6.53</b>	<b>Yes</b>	<b>144</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001886</b>	<b>NP Inter (normality) 1 of 2</b>
<b>pH (SU)</b>	<b>GC-AP-MW-17</b>	<b>6.49</b>	<b>3.78</b>	<b>10/23/2023</b>	<b>6.63</b>	<b>Yes</b>	<b>144</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001886</b>	<b>NP Inter (normality) 1 of 2</b>
pH (SU)	GC-AP-MW-18	6.49	3.78	10/23/2023	6.4	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-2	6.49	3.78	10/24/2023	6.01	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-21	6.49	3.78	10/25/2023	6.01	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-25	6.49	3.78	11/1/2023	6.01	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-3	6.49	3.78	10/24/2023	6.22	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-31	6.49	3.78	10/30/2023	5.72	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-32	6.49	3.78	10/30/2023	5.92	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-33	6.49	3.78	10/30/2023	4.63	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
<b>pH (SU)</b>	<b>GC-AP-MW-5</b>	<b>6.49</b>	<b>3.78</b>	<b>10/24/2023</b>	<b>6.61</b>	<b>Yes</b>	<b>144</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001886</b>	<b>NP Inter (normality) 1 of 2</b>
pH (SU)	GC-AP-MW-6	6.49	3.78	10/25/2023	6.41	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
<b>pH (SU)</b>	<b>GC-AP-MW-7</b>	<b>6.49</b>	<b>3.78</b>	<b>10/25/2023</b>	<b>6.57</b>	<b>Yes</b>	<b>144</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0001886</b>	<b>NP Inter (normality) 1 of 2</b>
pH (SU)	GC-AP-MW-8	6.49	3.78	10/25/2023	6.47	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
pH (SU)	GC-AP-MW-9	6.49	3.78	10/25/2023	6.22	No	144	n/a	n/a	0	n/a	n/a	n/a	0.0001886	NP Inter (normality) 1 of 2
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-1</b>	<b>103</b>	<b>n/a</b>	<b>10/24/2023</b>	<b>714</b>	<b>Yes</b>	<b>154</b>	<b>n/a</b>	<b>n/a</b>	<b>19.48</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008291</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>103</b>	<b>n/a</b>	<b>11/1/2023</b>	<b>124</b>	<b>Yes</b>	<b>154</b>	<b>n/a</b>	<b>n/a</b>	<b>19.48</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008291</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-11</b>	<b>103</b>	<b>n/a</b>	<b>10/25/2023</b>	<b>165</b>	<b>Yes</b>	<b>154</b>	<b>n/a</b>	<b>n/a</b>	<b>19.48</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008291</b>	<b>NP Inter (normality) 1 of 2</b>
Sulfate (mg/L)	GC-AP-MW-12	103	n/a	10/25/2023	74.3	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-13	103	n/a	10/25/2023	64.8	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>103</b>	<b>n/a</b>	<b>11/1/2023</b>	<b>135</b>	<b>Yes</b>	<b>154</b>	<b>n/a</b>	<b>n/a</b>	<b>19.48</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008291</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>103</b>	<b>n/a</b>	<b>10/24/2023</b>	<b>128</b>	<b>Yes</b>	<b>154</b>	<b>n/a</b>	<b>n/a</b>	<b>19.48</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008291</b>	<b>NP Inter (normality) 1 of 2</b>
Sulfate (mg/L)	GC-AP-MW-16	103	n/a	10/25/2023	35.7	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-17	103	n/a	10/23/2023	97.3	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-18	103	n/a	10/23/2023	17.7	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-2</b>	<b>103</b>	<b>n/a</b>	<b>10/24/2023</b>	<b>606</b>	<b>Yes</b>	<b>154</b>	<b>n/a</b>	<b>n/a</b>	<b>19.48</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008291</b>	<b>NP Inter (normality) 1 of 2</b>
Sulfate (mg/L)	GC-AP-MW-21	103	n/a	10/25/2023	72.4	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-25	103	n/a	11/1/2023	72.6	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-3	103	n/a	10/24/2023	18.7	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-31	103	n/a	10/30/2023	3.75	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-32	103	n/a	10/30/2023	3.36	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GC-AP-MW-33	103	n/a	10/30/2023	17.6	No	154	n/a	n/a	19.48	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>103</b>	<b>n/a</b>	<b>10/24/2023</b>	<b>150</b>	<b>Yes</b>	<b>154</b>	<b>n/a</b>	<b>n/a</b>	<b>19.48</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008291</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-6</b>	<b>103</b>	<b>n/a</b>	<b>10/25/2023</b>	<b>203</b>	<b>Yes</b>	<b>154</b>	<b>n/a</b>	<b>n/a</b>	<b>19.48</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008291</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>GC-AP-MW-7</b>	<b>103</b>	<b>n/a</b>	<b>10/25/2023</b>	<b>257</b>	<b>Yes</b>	<b>154</b>	<b>n/a</b>	<b>n/a</b>	<b>19.48</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00008291</b>	<b>NP Inter (normality) 1 of 2</b>
Sulfate (mg/L)	GC-AP-MW-8	103	n/a	10/25/2023	91.7	No	154	n/a	n/a	19.48	n/a	n/a	n/a		

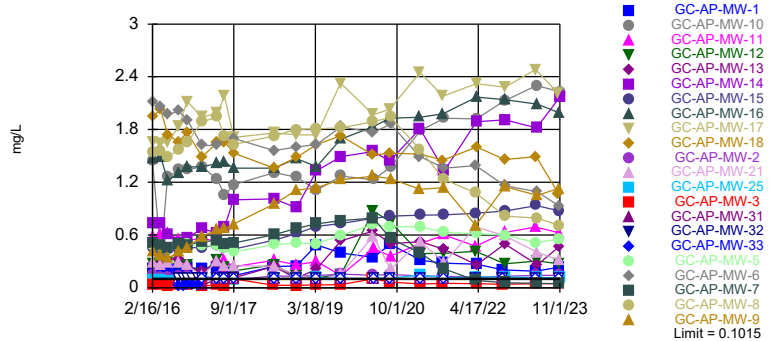
# Appendix III Interwell Prediction Limits - All Results

Plant Greene County Data: Greene County AP Printed 1/3/2024, 8:25 AM

Constituent	Well	Upper Lim	Lower Lim	Date	Obsrv.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	GC-AP-MW-13	182	n/a	10/25/2023	189	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-14	182	n/a	11/1/2023	653	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-15	182	n/a	10/24/2023	409	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-16	182	n/a	10/25/2023	449	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-17	182	n/a	10/23/2023	652	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-18	182	n/a	10/23/2023	376	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-2	182	n/a	10/24/2023	1020	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-21	182	n/a	10/25/2023	205	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-25	182	n/a	11/1/2023	251	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-3	182	n/a	10/24/2023	332	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-31	182	n/a	10/30/2023	52.7	No	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-32	182	n/a	10/30/2023	58.7	No	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-33	182	n/a	10/30/2023	58.7	No	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-5	182	n/a	10/24/2023	462	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-6	182	n/a	10/25/2023	790	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-7	182	n/a	10/25/2023	1010	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-8	182	n/a	10/25/2023	702	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2
TDS (mg/L)	GC-AP-MW-9	182	n/a	10/25/2023	525	Yes	154	n/a	n/a	16.23	n/a	n/a	n/a	0.00008291	NP Inter (normality) 1 of 2

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15,...

Prediction Limit  
Interwell Non-parametric

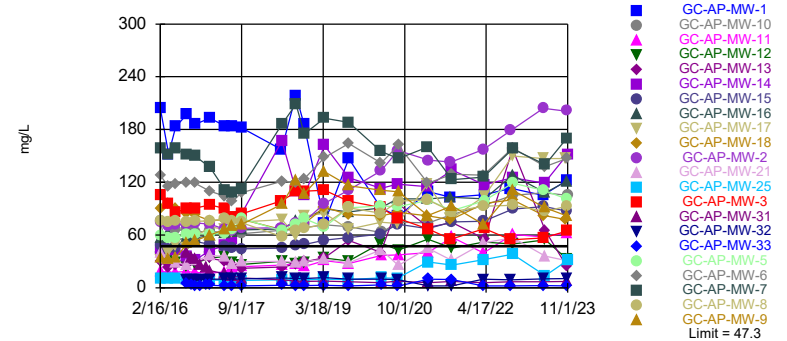


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 147 background values. 94.56% NDs. Annual per-constituent alpha = 0.003992. Individual comparison alpha = 0.00009089 (1 of 2). Comparing 22 points to limit.

Constituent: Boron Analysis Run 1/3/2024 8:23 AM View: Appendix III  
Plant Greene County Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16, GC-AP-MW-17,...

Prediction Limit  
Interwell Non-parametric

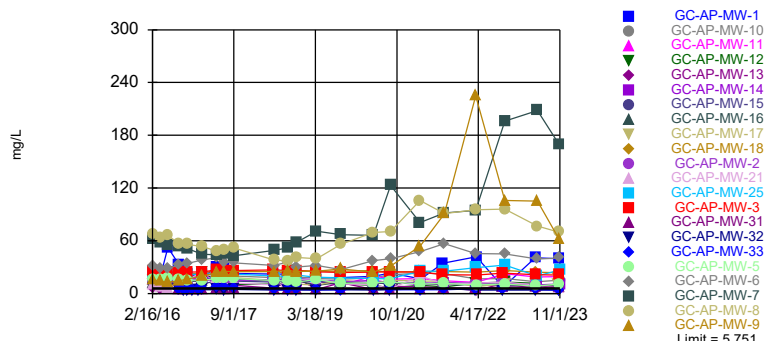


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 154 background values. Annual per-constituent alpha = 0.003642. Individual comparison alpha = 0.00008291 (1 of 2). Comparing 22 points to limit.

Constituent: Calcium Analysis Run 1/3/2024 8:23 AM View: Appendix III  
Plant Greene County Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-16,...

Prediction Limit  
Interwell Parametric

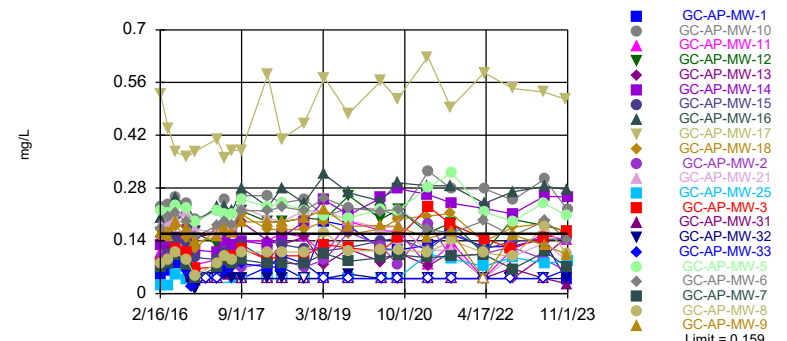


Background Data Summary (based on natural log transformation): Mean=0.7433, Std. Dev.=0.475, n=154, 3.247% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 13.66, critical = 14.07. Kappa = 2.118 (c=7, w=22, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.000342. Comparing 22 points to limit.

Constituent: Chloride Analysis Run 1/3/2024 8:24 AM View: Appendix III  
Plant Greene County Data: Greene County AP

Exceeds Limit: GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-18, GC-AP-MW-3,...

Prediction Limit  
Interwell Non-parametric

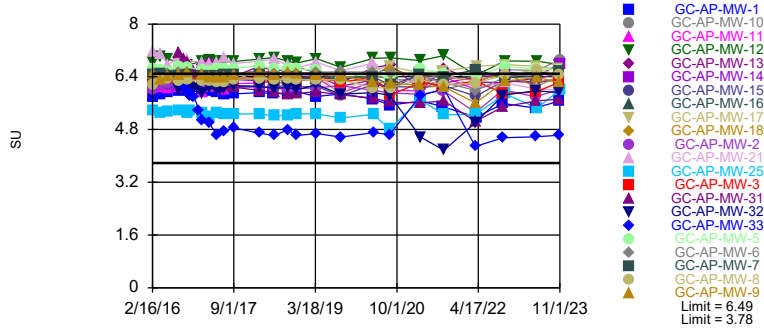


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 148 background values. 68.24% NDs. Annual per-constituent alpha = 0.003942. Individual comparison alpha = 0.00008975 (1 of 2). Comparing 22 points to limit.

Constituent: Fluoride Analysis Run 1/3/2024 8:24 AM View: Appendix III  
Plant Greene County Data: Greene County AP

Exceeds Limits: GC-AP-MW-10, GC-AP-MW-12, GC-AP-MW-14, GC-AP-MW-16, GC-AP-MW-17, GC-AP-MW-5, GC-AP-MW-7

Prediction Limit  
Interwell Non-parametric

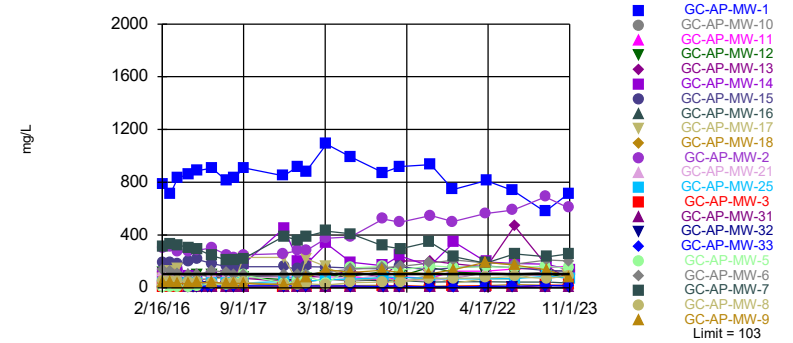


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 144 background values. Annual per-constituent alpha = 0.008283. Individual comparison alpha = 0.0001886 (1 of 2). Comparing 22 points to limit.

Constituent: pH Analysis Run 1/3/2024 8:24 AM View: Appendix III  
Plant Greene County Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-14, GC-AP-MW-15, GC-AP-MW-2, GC-AP-MW-5...

Prediction Limit  
Interwell Non-parametric

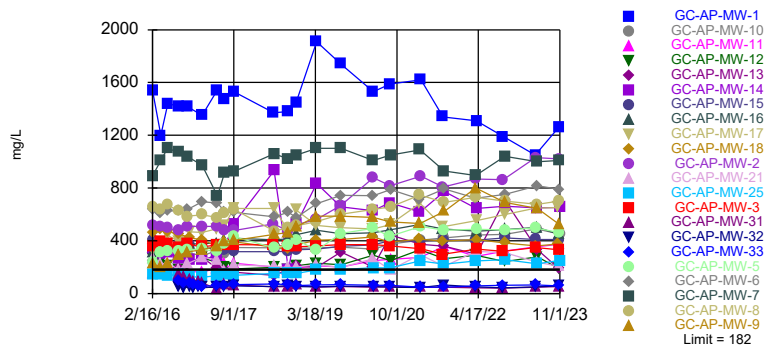


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 154 background values. 19.48% NDs. Annual per-constituent alpha = 0.003642. Individual comparison alpha = 0.00008291 (1 of 2). Comparing 22 points to limit.

Constituent: Sulfate Analysis Run 1/3/2024 8:24 AM View: Appendix III  
Plant Greene County Data: Greene County AP

Exceeds Limit: GC-AP-MW-1, GC-AP-MW-10, GC-AP-MW-11, GC-AP-MW-12, GC-AP-MW-13, GC-AP-MW-14, GC-AP-MW-15...

Prediction Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 154 background values. 16.23% NDs. Annual per-constituent alpha = 0.003642. Individual comparison alpha = 0.00008291 (1 of 2). Comparing 22 points to limit.

Constituent: TDS Analysis Run 1/3/2024 8:24 AM View: Appendix III  
Plant Greene County Data: Greene County AP

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-10	GC-AP-MW-9	GC-AP-MW-8	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-21	GC-AP-MW-12	GC-AP-MW-18	GC-AP-MW-24 (bg)
2/16/2016	1.44	0.412	1.54	0.739	0.26	0.286	0.273		
2/17/2016								1.94	<0.1015
4/12/2016				0.733	0.26			2.03	<0.1015
4/13/2016	0.373	0.376	1.56			0.26	0.276		
5/31/2016	1.26			0.603	0.318		0.291		
6/1/2016		0.338	1.49			0.283		1.74	<0.1015
8/15/2016								1.66	
8/16/2016	1.34				0.322	0.292	0.268		<0.1015
8/17/2016		0.412	1.57	0.509					
9/19/2016									
9/20/2016									
10/11/2016									<0.1015
10/12/2016	1.34	0.46	1.65	0.569	0.244	0.254	0.252	1.77	
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								1.49	<0.1015
1/25/2017	1.38	0.586	1.89	0.671	0.188	0.133	0.167		
1/26/2017									
5/9/2017				0.622	0.281	0.304	0.32		
5/10/2017	1.23	0.661	1.94					1.65	<0.1015
6/27/2017								1.66	
6/28/2017	1.05	0.673	1.72	0.695	0.153	0.243	0.231		<0.1015
8/29/2017	1.17	0.723	1.63	1	0.112	0.249	0.191		<0.1015
8/30/2017								1.53	
6/4/2018									
6/5/2018	1.31	0.954	1.73					1.36	<0.1015
6/6/2018				1.01	0.244	0.245	0.26		
11/5/2018					0.104	0.151	0.127		
11/6/2018								1.48	
11/7/2018	1.26	1.11	1.8	0.908					<0.1015
3/26/2019		1.14	1.81		0.213	0.0834 (J)	0.111	1.63	<0.1015
3/27/2019	1.11			1.33					
9/9/2019								1.73	
9/10/2019	1.27	1.23	1.82	1.49		0.16	0.153		<0.1015
9/11/2019					0.535				
4/20/2020					0.642				
4/21/2020		1.27	1.89	1.55		0.586	0.872	1.51	
4/22/2020	1.23								<0.1015
8/11/2020				1.44					
8/12/2020								1.53	<0.1015
8/17/2020									
8/18/2020	1.37	1.24			0.501	0.211	0.748		
8/19/2020			1.94						
3/9/2021		1.12	1.57	1.81				1.52	
3/10/2021						0.528	0.389		<0.1015
3/15/2021	1.79				0.523				
3/16/2021									
8/17/2021								1.45	
8/18/2021									

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-10	GC-AP-MW-9	GC-AP-MW-8	GC-AP-MW-14	GC-AP-MW-13	GC-AP-MW-21	GC-AP-MW-12	GC-AP-MW-18	GC-AP-MW-24 (bg)
8/23/2021									
8/24/2021	1.93	1.14	1.23						<0.1015
8/25/2021				1.33	0.438	0.288	0.393		
3/28/2022									
3/29/2022		0.71	1.08				0.416		
3/30/2022						0.696			
4/4/2022	1.92			1.89					<0.1015
4/5/2022									
4/6/2022					0.26			1.6	
10/5/2022									
10/17/2022					0.499	0.59	0.272	1.46	<0.1015
10/18/2022	2.13	1.15	0.815	1.91					
10/19/2022									
5/16/2023									<0.1015
5/17/2023									
5/22/2023								1.49	
5/23/2023									
5/24/2023	2.3			1.82					
5/30/2023		1.05	0.794			0.402	0.306		
5/31/2023					0.263				
10/23/2023								1.07	
10/24/2023									
10/25/2023		1.13	0.709		0.465	0.315	0.272		<0.1015
10/30/2023									
11/1/2023	2.23			2.17					

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-3	GC-AP-MW-2	GC-AP-MW-7	GC-AP-MW-25	GC-AP-MW-5	GC-AP-MW-16	GC-AP-MW-23 (bg)	GC-AP-MW-11
2/16/2016									
2/17/2016	2.12	0.0288 (J)	0.146	0.503	0.0922 (J)	0.478	1.47	0.0271 (J)	0.581
4/12/2016	2.06	0.0293 (J)			0.0935 (J)	0.467		<0.1015	
4/13/2016			0.125	0.478			1.48		0.61
5/31/2016	1.97			0.452		0.443			0.615
6/1/2016		0.0279 (J)	0.114		0.0826 (J)		1.22	<0.1015	
8/15/2016		0.0332 (J)	0.128				1.31		
8/16/2016								<0.1015	0.554
8/17/2016	2.01			0.492	0.092 (J)	0.477			
9/19/2016									
9/20/2016									
10/11/2016	1.91	0.0328 (J)	0.129		0.0976 (J)	0.489		0.024 (J)	
10/12/2016				0.487			1.37		0.537
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	1.62	0.0262 (J)	0.124		0.0877 (J)	0.475	1.38	0.0333 (J)	
1/25/2017				0.529					0.562
1/26/2017									
5/9/2017		0.0298 (J)	0.121		0.0953 (J)	0.479		<0.1015	0.528
5/10/2017	1.62			0.533			1.41		
6/27/2017							1.43	<0.1015	
6/28/2017	1.71	0.0226 (J)	0.111	0.501	0.0835 (J)	0.448			0.313
8/29/2017	1.7			0.51	0.0914 (J)			<0.1015	0.241
8/30/2017		<0.1015	0.0915 (J)			0.407	1.36		
6/4/2018		0.0296 (J)	0.134						
6/5/2018	1.56			0.605		0.489	1.36	<0.1015	0.311
6/6/2018					0.102				
11/5/2018									0.262
11/6/2018		0.0268 (J)	0.131		0.0995 (J)	0.508	1.47		
11/7/2018	1.6			0.677				<0.1015	
3/26/2019	1.63			0.727			1.38	<0.1015	
3/27/2019		0.0316 (J)	0.138		0.113	0.502			0.298
9/9/2019		0.035 (J)	0.157						
9/10/2019	1.83			0.764	0.105		1.69	<0.1015	0.141
9/11/2019						0.595			
4/20/2020		<0.1015					1.83		
4/21/2020	1.77		0.14	0.793		0.72		<0.1015	
4/22/2020					0.104				0.447
8/11/2020					0.11		1.93		
8/12/2020						0.695		<0.1015	
8/17/2020		0.0636 (J)	0.152						
8/18/2020									0.358
8/19/2020	1.86			0.561					
3/9/2021	1.49			0.397			1.94		
3/10/2021					0.146			<0.1015	0.502
3/15/2021									
3/16/2021		0.0445 (J)	0.134			0.694			
8/17/2021		0.0518 (J)	0.131				1.98		
8/18/2021									



# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-3	GC-AP-MW-2	GC-AP-MW-7	GC-AP-MW-25	GC-AP-MW-5	GC-AP-MW-16	GC-AP-MW-23 (bg)	GC-AP-MW-11
8/23/2021						0.628			
8/24/2021	1.36			0.216	0.115			<0.1015	
8/25/2021									0.601
3/28/2022			0.125					<0.1015	
3/29/2022	1.39			0.0842 (J)	0.122				
3/30/2022									0.472
4/4/2022						0.615			
4/5/2022		0.0453 (J)							
4/6/2022							2.17		
10/5/2022		0.0404 (J)	0.132						
10/17/2022						0.599		<0.1015	0.63
10/18/2022	1.16			0.0589 (J)	0.124		2.14		
10/19/2022									
5/16/2023								<0.1015	
5/17/2023		0.0456 (J)	0.143			0.515			0.691
5/22/2023									
5/23/2023									
5/24/2023									
5/30/2023	1.09			0.0498 (J)	0.115				
5/31/2023							2.09		
10/23/2023									
10/24/2023		0.0481 (J)	0.143			0.552			
10/25/2023	0.93			0.0465 (J)			1.99	<0.1015	0.625
10/30/2023									
11/1/2023					0.115				

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-17	GC-AP-MW-1	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-29 (bg)	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	0.454	1.66	0.219						
4/12/2016	0.444								
4/13/2016		1.64	0.211						
5/31/2016	0.424								
6/1/2016		1.66	0.2						
8/15/2016		1.83	0.211						
8/16/2016	0.438			<0.1015	<0.1015	0.0268 (J)	<0.1015	<0.1015	
8/17/2016									<0.1015
9/19/2016				<0.1015		0.0225 (J)	<0.1015		
9/20/2016					<0.1015			<0.1015	<0.1015
10/11/2016	0.456		0.23	<0.1015	<0.1015	0.0304 (J)	<0.1015	<0.1015	
10/12/2016		2.12							<0.1015
11/14/2016				<0.1015		0.0355 (J)	<0.1015		
11/15/2016					<0.1015			0.0229 (J)	<0.1015
1/3/2017				<0.1015		0.0304 (J)	<0.1015		
1/4/2017					<0.1015			<0.1015	<0.1015
1/23/2017					<0.1015				0.0217 (J)
1/24/2017	0.458	1.94	0.218	0.0282 (J)			<0.1015		
1/25/2017						<0.1015			
1/26/2017								<0.1015	
5/9/2017			0.235		<0.1015			<0.1015	<0.1015
5/10/2017	0.486	1.99		<0.1015		<0.1015	<0.1015		
6/27/2017	0.454	2.18	0.206	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
6/28/2017									
8/29/2017									<0.1015
8/30/2017	0.441	1.71	0.138	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	
6/4/2018			0.242						
6/5/2018	0.543	1.76		<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
6/6/2018									
11/5/2018							<0.1015		
11/6/2018	0.614	1.74	0.247	<0.1015	<0.1015	<0.1015		<0.1015	<0.1015
11/7/2018									
3/26/2019	0.697	1.74			<0.1015			<0.1015	<0.1015
3/27/2019			0.488	<0.1015		<0.1015	<0.1015		
9/9/2019		2.33							
9/10/2019	0.73		0.398						
9/11/2019				<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
4/20/2020	0.791								
4/21/2020		1.97	0.347		<0.1015			<0.1015	<0.1015
4/22/2020				<0.1015		<0.1015	<0.1015		
8/11/2020		2.03		<0.1015					
8/12/2020	0.813					<0.1015	<0.1015		
8/17/2020			0.496						
8/18/2020					<0.1015			<0.1015	<0.1015
8/19/2020									
3/9/2021		2.45							
3/10/2021	0.825								
3/15/2021				<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	<0.1015
3/16/2021			0.313						
8/17/2021		2.18	0.281						
8/18/2021					<0.1015			<0.1015	<0.1015

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-17	GC-AP-MW-1	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-33	GC-AP-MW-32	GC-AP-MW-29 (bg)	GC-AP-MW-26 (bg)
8/23/2021				<0.1015		<0.1015	<0.1015		
8/24/2021									
8/25/2021	0.83								
3/28/2022				<0.1015	<0.1015	<0.1015	<0.1015	<0.1015	
3/29/2022	0.848								
3/30/2022									
4/4/2022		2.32	0.269						<0.1015
4/5/2022									
4/6/2022									
10/5/2022			0.202	<0.1015		<0.1015	<0.1015		
10/17/2022									
10/18/2022	0.874	2.28							
10/19/2022					<0.1015			<0.1015	<0.1015
5/16/2023			0.187						
5/17/2023		2.48							
5/22/2023						<0.1015	<0.1015		
5/23/2023	0.935			<0.1015					
5/24/2023									
5/30/2023					<0.1015			<0.1015	<0.1015
5/31/2023									
10/23/2023		2.21							
10/24/2023	0.877		0.231		<0.1015			<0.1015	<0.1015
10/25/2023									
10/30/2023				<0.1015		<0.1015	<0.1015		
11/1/2023									

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
Plant Greene County Data: Greene County AP

GC-AP-MW-27 (bg)GC-AP-MW-28 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	<0.1015	<0.1015
9/19/2016		
9/20/2016	<0.1015	<0.1015
10/11/2016		
10/12/2016	0.02 (J)	<0.1015
11/14/2016		
11/15/2016	<0.1015	<0.1015
1/3/2017		
1/4/2017	<0.1015	<0.1015
1/23/2017	0.0287 (J)	
1/24/2017		0.0331 (J)
1/25/2017		
1/26/2017		
5/9/2017	<0.1015	<0.1015
5/10/2017		
6/27/2017	<0.1015	<0.1015
6/28/2017		
8/29/2017	<0.1015	
8/30/2017		<0.1015
6/4/2018		
6/5/2018	<0.1015	<0.1015
6/6/2018		
11/5/2018		
11/6/2018	<0.1015	<0.1015
11/7/2018		
3/26/2019	<0.1015	<0.1015
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	<0.1015	<0.1015
4/20/2020		
4/21/2020	<0.1015	<0.1015
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	<0.1015	<0.1015
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	<0.1015	<0.1015
3/16/2021		
8/17/2021		
8/18/2021	<0.1015	<0.1015

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	<0.1015	<0.1015
3/29/2022		
3/30/2022		
4/4/2022		
4/5/2022		
4/6/2022		
10/5/2022		
10/17/2022		
10/18/2022		
10/19/2022	<0.1015	<0.1015
5/16/2023		
5/17/2023		
5/22/2023		
5/23/2023		
5/24/2023		
5/30/2023	<0.1015	<0.1015
5/31/2023		
10/23/2023		
10/24/2023	<0.1015	<0.1015
10/25/2023		
10/30/2023		
11/1/2023		

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-9	GC-AP-MW-8	GC-AP-MW-13	GC-AP-MW-21	GC-AP-MW-1	GC-AP-MW-15
2/16/2016	34.6	44.4	76.3	33.9	75.9	29.8	40.4		
2/17/2016								204	47.7
4/12/2016		43.2				23.3			44.4
4/13/2016	32.2		30.5	32.5	74.1		32.2	152	
5/31/2016	28.8	43	65.9			25.9			45.3
6/1/2016				33.9	76.4		29.3	183	
8/15/2016								197	
8/16/2016	24		65.6			25.5	25.4		49.4
8/17/2016		35.9		50.3	74.2				
9/19/2016									
9/20/2016									
10/11/2016								186	52.7
10/12/2016	27.8	31.1	63.4	53.3	75.7	29.5	30.7		
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								193	49.4
1/25/2017	33.7	42.7	64.2	59.9	76.1	33.6	36.8		
1/26/2017									
5/9/2017	35.5	48.1				30.4	36.1	184	
5/10/2017			62.6	66.5	78.6				47.4
6/27/2017								184	44.9
6/28/2017	28	55	60.8	69.8	76.4	26	26.9		
8/29/2017	26.4	83.6	61.4	72	74.1	22.3	29.4		
8/30/2017								182	44.4
6/4/2018								157	
6/5/2018			65.5	95.1	58				45.1
6/6/2018	30.1	167				23.7	30.2		
9/10/2018							28.8	219	
9/11/2018	27.4		66.1	122	64.9	26.8			48.5
9/12/2018		109							
11/5/2018	28.8					29.4	29.7		
11/6/2018								186	49.2
11/7/2018		105	68.5	107	68.1				
3/26/2019	33.7			132	72	34.1	32.4		54
3/27/2019		162	71.8					73.8	
9/9/2019									
9/10/2019	30.5	125	69.3	116	91		28.4	147	57.2
9/11/2019						53.9			
4/20/2020						40.3			61
4/21/2020	51	113		111	84.8		43.1	90.5	
4/22/2020			62.9						
8/11/2020		118							
8/12/2020									72.2
8/17/2020								81.5	
8/18/2020	42.9		74.4	109		95.3	25.5		
8/19/2020					98.6				
3/9/2021		115		82.1	100				
3/10/2021	55.1						44.9		67.4
3/15/2021			73.8			68.9			

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-9	GC-AP-MW-8	GC-AP-MW-13	GC-AP-MW-21	GC-AP-MW-1	GC-AP-MW-15
3/16/2021								109	
8/17/2021								103	
8/18/2021									
8/23/2021									
8/24/2021			83.4	93.1	86.4				
8/25/2021	45.2	134				74.2	31		74.8
3/28/2022									
3/29/2022	52			72.1	92.8				75.7
3/30/2022							51		
4/4/2022		117	93.7					106	
4/5/2022									
4/6/2022						55.5			
10/5/2022								113	
10/17/2022	49.799999					158	57		
10/18/2022		125	105	111	93.800003				89.400002
10/19/2022									
5/16/2023								105	
5/17/2023									
5/22/2023									
5/23/2023									92.5
5/24/2023		119	108						
5/30/2023	54.5			91.099998	87		36.099998		
5/31/2023						65.099998			
10/23/2023									
10/24/2023								122	87.400002
10/25/2023	33.099998			82	92.699997	24.299999	30.9		
10/30/2023									
11/1/2023		152	105						







# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-32	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-28 (bg)
2/16/2016									
2/17/2016	38.7	6.54	10.2						
4/12/2016	42.7	6.15	10						
4/13/2016									
5/31/2016									
6/1/2016	41.8	5.7	9.87						
8/15/2016									
8/16/2016	40.9	6.77		5.54	2.02	9.33	39.5	1.24	
8/17/2016			8.88						7.74
9/19/2016				3.01		9.26	34.5		
9/20/2016					1.22			1.11	2.43
10/11/2016	38.1	8.84	9.22	2.74	1.48	9.31	32.4	1.22	
10/12/2016									2.46
11/14/2016				2.47		9.17	26.5		
11/15/2016					1.36			1.34	2.28
1/3/2017				2.94		9.66	22.6		
1/4/2017					1.11			2.39	2.7
1/23/2017								1.83	
1/24/2017	27.7	12.8	8.72			9.67	19.5		4.19
1/25/2017				2.91					
1/26/2017					1.03				
5/9/2017	29.3		8.56		0.289 (J)			0.823	3.28
5/10/2017		12.4		2.27		9.81	15.7		
6/27/2017	28.6			2.2	0.292 (J)	9.88	13.8	0.956	3.76
6/28/2017		17.9	7.16						
8/29/2017	32.3	19	8.32						
8/30/2017				2.26	0.336 (J)	10.3	11.1	1.04	2.31
6/4/2018									
6/5/2018	34.5	30		2.97	0.2 (J)	11.4	9.12	1.18	2.76
6/6/2018			9.05						
9/10/2018									
9/11/2018	32	28.7		2.6	0.171 (J)	10.5	7.5	1.5	2.04
9/12/2018			8.98						
11/5/2018						10.5			
11/6/2018			9.21	2.42	0.193 (J)		7.39	1.64	2
11/7/2018	30.3	30.7							
3/26/2019	31.3	32.3			0.223 (J)			1.33	2.13
3/27/2019			9.77	2.75		11.6	7.65		
9/9/2019									
9/10/2019	30.7	32.8	9.28						
9/11/2019				2.17	0.158 (J)	9.95	6.96	0.925	1.98
4/20/2020									
4/21/2020	30.8				0.287 (J)			0.864	2.41
4/22/2020		31.4	11.3	3.15		9.87	5.92		
8/11/2020			10.7				7.46		
8/12/2020	28	35.8		1.78		9.48			
8/17/2020									
8/18/2020					0.231 (J)			0.926	2.23
8/19/2020									
3/9/2021									
3/10/2021	26.6	42.8	29.3						
3/15/2021				9.77	0.239 (J)	2.02	5.9	0.646	1.73

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-32	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-28 (bg)
3/16/2021									
8/17/2021									
8/18/2021					0.283 (J)			0.716	1.94
8/23/2021				9.48		2.16	7.11		
8/24/2021	26.3	36.5	25.9						
8/25/2021									
3/28/2022	26			2.21	0.172 (J)	9.61	5.95	0.542	1.94
3/29/2022			31.9						
3/30/2022									
4/4/2022		37							
4/5/2022									
4/6/2022									
10/5/2022				2.01		9.18	6.69		
10/17/2022	23.1	31.6							
10/18/2022			38.200001						
10/19/2022					0.158 (J)			0.602	1.83
5/16/2023	25.4	47.299999							
5/17/2023									
5/22/2023				2.52		10.2			
5/23/2023							6.75		
5/24/2023									
5/30/2023			13.9		0.238 (J)			0.503	2.22
5/31/2023									
10/23/2023									
10/24/2023					0.168 (J)			0.529	1.83
10/25/2023	24.200001	33.900002							
10/30/2023				2.11		10.5	7.22		
11/1/2023			31.1						

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
Plant Greene County Data: Greene County AP

GC-AP-MW-27 (bg)GC-AP-MW-26 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	1.1	5.88
9/19/2016		
9/20/2016	0.771	5.95
10/11/2016		
10/12/2016	0.711	6.1
11/14/2016		
11/15/2016	0.641	6.28
1/3/2017		
1/4/2017	0.797	4.97
1/23/2017	0.655	5.17
1/24/2017		
1/25/2017		
1/26/2017		
5/9/2017	0.538	15.7
5/10/2017		
6/27/2017	0.413 (J)	14.2
6/28/2017		
8/29/2017	0.504	11.1
8/30/2017		
6/4/2018		
6/5/2018	0.339 (J)	3.93
6/6/2018		
9/10/2018		
9/11/2018	0.776	3.76
9/12/2018		
11/5/2018		
11/6/2018	0.746	4.81
11/7/2018		
3/26/2019	0.526	3.18
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	0.638	3.98
4/20/2020		
4/21/2020	1.15	3.83
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	0.884	4.58
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	0.745	4.67

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-26 (bg)
3/16/2021		
8/17/2021		
8/18/2021	1.11	4.84
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	1.37	
3/29/2022		
3/30/2022		
4/4/2022		6.7
4/5/2022		
4/6/2022		
10/5/2022		
10/17/2022		
10/18/2022		
10/19/2022	1.02	7.91
5/16/2023		
5/17/2023		
5/22/2023		
5/23/2023		
5/24/2023		
5/30/2023	1.27	8.37
5/31/2023		
10/23/2023		
10/24/2023	1.47	8.82
10/25/2023		
10/30/2023		
11/1/2023		

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III

Plant Greene County Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-9	GC-AP-MW-8	GC-AP-MW-13	GC-AP-MW-21	GC-AP-MW-1	GC-AP-MW-15
2/16/2016	10.8	16.4	18.4	15.6	67.9	6.52	9.95		
2/17/2016								16	11.8
4/12/2016		15.9				4.47			12.6
4/13/2016	8.2		19	14.3	64.1		7.33	21.5	
5/31/2016	7.74	13.6	19.2			10.8			12.9
6/1/2016				12.6	66.3		6.97	52.5	
8/15/2016								33.3	
8/16/2016	12.5		17.7			16.6	12		10.2
8/17/2016		12.8		14.4	56.7				
9/19/2016									
9/20/2016									
10/11/2016								22.2	10.2
10/12/2016	15.7	16.3	16.8	16.4	56.1	18.5	15.4		
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								18.4	11.2
1/25/2017	24.4	16.4	18.6	20	53.6	22	24.7		
1/26/2017									
5/9/2017	15	19				10	17	30	
5/10/2017			22	24	48				14
6/27/2017								29	14
6/28/2017	12	17	20	25	49	9.4	11		
8/29/2017	10	17	20	25	52	9.3	12		
8/30/2017								23	14
6/4/2018								22	
6/5/2018			18	25	38				13
6/6/2018	11	14				6.1	9.7		
9/10/2018							12	22	
9/11/2018	12		19	26	37	14			14
9/12/2018		14							
11/5/2018	17					18	16		
11/6/2018								17	14
11/7/2018		15	19	25	41				
3/26/2019	14.5			25.3	39.7	4.7	17.2		13
3/27/2019		14.9	17.1					18	
9/9/2019									
9/10/2019	10.9	13.5	16.5	28	56.1		11	18.1	12.8
9/11/2019						12.3			
4/20/2020						4.7			12
4/21/2020	9.49	14.8		24.2	69.5		10.1	19.5	
4/22/2020			17.6						
8/11/2020		12.7							
8/12/2020									11.4
8/17/2020								23.2	
8/18/2020	6.46		21.3	31.4		8.24	5.54		
8/19/2020					70.5				
3/9/2021		10.4		53.9	106				
3/10/2021	9.3						20.4		11.9
3/15/2021			23.2			7.68			

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-9	GC-AP-MW-8	GC-AP-MW-13	GC-AP-MW-21	GC-AP-MW-1	GC-AP-MW-15
3/16/2021								16.6	
8/17/2021								34.4	
8/18/2021									
8/23/2021									
8/24/2021			22.4	90.7	90.8				
8/25/2021	7.43	11.5				6.37	10.4		10.3
3/28/2022									
3/29/2022	11.8			225	95.4				10.3
3/30/2022							12.1		
4/4/2022		9.875 (D)	16.8 (D)					41.75 (D)	
4/5/2022									
4/6/2022						3.71			
10/5/2022								7.1	
10/17/2022	12.9					12	13		
10/18/2022		10.4	17.200001	106	96.099998				8.54
10/19/2022									
5/16/2023								40.799999	
5/17/2023									
5/22/2023									
5/23/2023									8.99
5/24/2023		10	13.5						
5/30/2023	11.7			105	76.599998		9.44		
5/31/2023						4.19			
10/23/2023									
10/24/2023								39.5	9.61
10/25/2023	4.69			62.299999	69.900002	11.4	6.93		
10/30/2023									
11/1/2023		10.1	15.3						







# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-32	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-28 (bg)
2/16/2016									
2/17/2016	1.54	3.3	22.9						
4/12/2016	1.51	3.25	22.2						
4/13/2016									
5/31/2016									
6/1/2016	1.46	3.55	22.3						
8/15/2016									
8/16/2016	1.5	3.45		4.88	2.21	4.24	5.32	2.54	
8/17/2016			22.1						1.77
9/19/2016				4.45		4.13	5.29		
9/20/2016					2.12			2.51	1.56
10/11/2016	1.52	3.78	21.8	4.36	2.24	4.07	5.26	2.34	
10/12/2016									1.54
11/14/2016				4.42		4.08	5.28		
11/15/2016					6.65			2.1	1.53
1/3/2017				5.18		4.06	5.18		
1/4/2017					2.15			2.44	1.58
1/23/2017								2.37	
1/24/2017	1.38	4.61	21.8			4.4	5.41		1.71
1/25/2017				5.66					
1/26/2017					2.31				
5/9/2017	2.4		23		2.3			2.8	2.1
5/10/2017		5.9		8		4.4	5.8		
6/27/2017	2.1			7.2	2.1	4	5.4	2.1	2
6/28/2017		5.7	22						
8/29/2017	2.4	6.8	22						
8/30/2017				6.9	2.8	4.8	6	3	1.5 (J)
6/4/2018									
6/5/2018	1.7 (J)	7.9		4.2	1.8 (J)	3.8	5.2	2.3	1.2 (J)
6/6/2018			20						
9/10/2018									
9/11/2018	1.5 (J)	6.1		4.2	<2	4.1	5.5	1.5 (J)	<2
9/12/2018			20						
11/5/2018						3.9			
11/6/2018			21	4.5	<2		5.1	1.4 (J)	<2
11/7/2018	1.4 (J)	5.2							
3/26/2019	1.23	6.92			1.07			2.42	1.2
3/27/2019			18.4	4.33		3.9	5.26		
9/9/2019									
9/10/2019	1.38	4.39	17.7						
9/11/2019				4.16	1.19	4.21	5.31	3.72	1.26
4/20/2020									
4/21/2020	1.08				1.09			3.89	1.32
4/22/2020		2.75	17.1	5.66		4	5.37		
8/11/2020			16.7				5.45		
8/12/2020	1.28	4.14		4.46		4.17			
8/17/2020									
8/18/2020					1.05			3.8	1.38
8/19/2020									
3/9/2021									
3/10/2021	1.3	3.51	25.3						
3/15/2021				4.18	1.25	5.57	5.47	4.38	1.27

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-32	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-28 (bg)
3/16/2021									
8/17/2021									
8/18/2021					1.42			4.46	1.42
8/23/2021				4.33		5.61	6.37		
8/24/2021	1.19	3.42	25.3						
8/25/2021									
3/28/2022	1.09			5.47	1.24	3.98	6	4.12	1.35
3/29/2022			29.6						
3/30/2022									
4/4/2022		3.09							
4/5/2022									
4/6/2022									
10/5/2022				5.32		4.04	7.1		
10/17/2022	0.973 (J)	3.19							
10/18/2022			32.299999						
10/19/2022					1.08			3.7	1.23
5/16/2023	1.08	3.74							
5/17/2023									
5/22/2023				4.53		3.95			
5/23/2023							7.44		
5/24/2023									
5/30/2023			19.9		1.27			3.16	1.35
5/31/2023									
10/23/2023									
10/24/2023					1.16			2.86	1.28
10/25/2023	1.28	3.45							
10/30/2023				3.92		3.92	7.37		
11/1/2023			26.9						

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
Plant Greene County Data: Greene County AP

GC-AP-MW-27 (bg)GC-AP-MW-26 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	1.78	2.44
9/19/2016		
9/20/2016	1.61	2.54
10/11/2016		
10/12/2016	1.51	2.67
11/14/2016		
11/15/2016	1.5	2.94
1/3/2017		
1/4/2017	1.53	2.92
1/23/2017	1.62	3.21
1/24/2017		
1/25/2017		
1/26/2017		
5/9/2017	2.2	2.5
5/10/2017		
6/27/2017	1.9 (J)	3
6/28/2017		
8/29/2017	2	3.6
8/30/2017		
6/4/2018		
6/5/2018	1.9 (J)	2.2
6/6/2018		
9/10/2018		
9/11/2018	<2	1.5 (J)
9/12/2018		
11/5/2018		
11/6/2018	1.9 (J)	2.5
11/7/2018		
3/26/2019	2.18	2
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	1.7	2.34
4/20/2020		
4/21/2020	1.9	2.04
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	1.63	2.16
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	2.46	2.83

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-26 (bg)
3/16/2021		
8/17/2021		
8/18/2021	2.45	2.97
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	1.96	
3/29/2022		
3/30/2022		
4/4/2022		2.93
4/5/2022		
4/6/2022		
10/5/2022		
10/17/2022		
10/18/2022		
10/19/2022	2.01	2.84
5/16/2023		
5/17/2023		
5/22/2023		
5/23/2023		
5/24/2023		
5/30/2023	2.05	2.89
5/31/2023		
10/23/2023		
10/24/2023	2.08	2.84
10/25/2023		
10/30/2023		
11/1/2023		

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-14	GC-AP-MW-9	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-16
2/16/2016	0.13 (J)	0.16 (J)	0.16 (J)	0.14 (J)	0.08 (J)	0.23 (J)	0.18 (J)		
2/17/2016								0.02 (J)	0.2 (J)
4/12/2016	0.137 (J)			0.119 (J)				0.021 (J)	
4/13/2016		0.15 (J)	0.163 (J)		0.088 (J)	0.236 (J)	0.191 (J)		0.173 (J)
5/31/2016	0.149 (J)		0.19 (J)	0.132 (J)		0.255 (J)			
6/1/2016		0.19 (J)			0.109 (J)		0.201 (J)	0.051 (J)	0.253 (J)
8/15/2016									0.224 (J)
8/16/2016			0.219 (J)	0.177 (J)		0.238 (J)	0.218 (J)		
8/17/2016	0.147 (J)	0.171 (J)			0.089 (J)			0.037 (J)	
9/19/2016									
9/20/2016									
10/11/2016								<0.04	
10/12/2016	0.115 (J)	0.137 (J)	0.163 (J)	0.149 (J)	0.048 (J)	0.198 (J)	0.171 (J)		0.187 (J)
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
3/13/2017									
3/14/2017	0.11							<0.04	0.23
3/15/2017		0.15	0.13	0.16	0.08 (J)	0.22	0.16		
5/9/2017	0.14		0.15	0.18			0.17	<0.04	
5/10/2017		0.17			0.1	0.25			0.23
6/27/2017									0.22
6/28/2017	0.13	0.16	0.17	0.18	0.09 (J)	0.09 (J)	0.18	0.04 (J)	
8/29/2017	0.14	0.19	0.22	0.19	0.11	0.26	0.23	<0.04	
8/30/2017									0.28
2/27/2018	0.13	0.19			0.11	0.26			
2/28/2018			0.19	0.14			0.2	<0.04	0.23
6/4/2018									
6/5/2018		0.19			0.11	0.24			0.28
6/6/2018	0.15		0.19	0.13			0.19	<0.04	
11/5/2018			0.2	0.15			0.22		
11/6/2018								<0.04	0.24
11/7/2018	0.19	0.2			0.11	0.25			
3/26/2019		0.223	0.196	0.0775 (J)	0.162		0.219		0.316
3/27/2019	0.248					0.206		<0.04	
9/9/2019									
9/10/2019	0.209	0.178	0.26		0.113	0.226	0.194	<0.04	0.267
9/11/2019				0.118					
4/20/2020				0.0844 (J)					0.245
4/21/2020	0.254	0.181	0.198		0.114		0.173		
4/22/2020						0.224		<0.04	
8/11/2020	0.278							<0.04	0.294
8/12/2020									
8/17/2020									
8/18/2020		0.177	0.223	0.108		0.203	0.18		
8/19/2020					0.116				
3/9/2021	0.263	0.147			0.109				0.286
3/10/2021			0.161				0.113	0.104	
3/15/2021				0.0737 (J)		0.324			
3/16/2021									
8/17/2021									0.286

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-14	GC-AP-MW-9	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-8	GC-AP-MW-10	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-16
8/18/2021									
8/23/2021									
8/24/2021		0.164			0.141	0.277		0.0914 (J)	
8/25/2021	0.239		0.188	0.111			0.117		
3/28/2022									
3/29/2022		<0.04	0.107 (J)		0.108 (J)			0.0724 (J)	
3/30/2022							<0.04		
4/4/2022	0.226 (D)					0.2785 (D)			
4/5/2022									
4/6/2022				<0.04					0.2395 (D)
10/5/2022									
10/17/2022			0.197	<0.04			0.0988 (J)		
10/18/2022	0.211	0.156			0.0981 (J)	0.248		0.0955 (J)	0.27
10/19/2022									
5/16/2023									
5/17/2023									
5/22/2023									
5/23/2023									
5/24/2023	0.258					0.303			
5/30/2023		0.127	0.18		0.179		0.135	0.0807 (J)	
5/31/2023				0.102 (J)					0.284
10/23/2023									
10/24/2023									
10/25/2023		0.104	0.165	0.149	0.105		0.0861		0.276
10/30/2023									
11/1/2023	0.256					0.222		0.0861	

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-24 (bg)	GC-AP-MW-23 (bg)	GC-AP-MW-18	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-11	GC-AP-MW-7	GC-AP-MW-17
2/16/2016									
2/17/2016	0.09 (J)	0.02 (J)	0.08 (J)	0.15 (J)	0.22 (J)	0.17 (J)	0.11 (J)	0.07 (J)	0.53
4/12/2016	0.107 (J)	0.026 (J)	0.077 (J)	0.168 (J)	0.214 (J)	0.203 (J)			
4/13/2016							0.119 (J)	0.081 (J)	0.437
5/31/2016	0.145 (J)				0.232 (J)	0.212 (J)	0.134 (J)	0.103 (J)	
6/1/2016		0.057 (J)	0.101 (J)	0.178 (J)					0.376
8/15/2016				0.149 (J)					0.362
8/16/2016	0.135 (J)	0.046 (J)	0.093 (J)				0.116 (J)		
8/17/2016					0.225 (J)	0.19 (J)		0.078 (J)	
9/19/2016									
9/20/2016									
10/11/2016	0.096 (J)	<0.04	0.059 (J)		0.19 (J)	0.15 (J)			
10/12/2016				0.12 (J)			0.076 (J)	0.041 (J)	0.377
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
3/13/2017									
3/14/2017	0.09 (J)	<0.04	0.07 (J)	0.17	0.22	0.18	0.09 (J)	0.07 (J)	0.41
3/15/2017									
5/9/2017			0.08 (J)		0.21		0.11		
5/10/2017	0.11	<0.04		0.17		0.19		0.09 (J)	0.36
6/27/2017	0.1		0.08 (J)	0.18					0.38
6/28/2017		<0.04			0.21	0.18	0.17	0.08 (J)	
8/29/2017		0.04 (J)	0.1			0.22	0.14	0.09 (J)	
8/30/2017	0.13			0.21	0.25				0.38
2/27/2018		<0.04	0.08 (J)		0.23	0.22	0.14	0.08 (J)	
2/28/2018	0.09 (J)			0.17					0.58
6/4/2018									
6/5/2018	0.13	0.04 (J)	0.09 (J)	0.17	0.24	0.23	0.16	0.08 (J)	0.41
6/6/2018									
11/5/2018							0.15		
11/6/2018	0.12			0.17	0.22				0.45
11/7/2018		<0.04	0.08 (J)			0.22		0.08 (J)	
3/26/2019	0.113	<0.04	0.123	0.192		0.253		0.106	0.573
3/27/2019					0.208		0.104		
9/9/2019				0.157					0.477
9/10/2019	0.122	0.0545 (J)	0.0914 (J)			0.227	0.191	0.086 (J)	
9/11/2019					0.2				
4/20/2020	0.14								
4/21/2020			0.095 (J)	0.171	0.224	0.218		0.0951 (J)	0.565
4/22/2020		<0.04					0.167		
8/11/2020									0.515
8/12/2020	0.147	<0.04	0.0867 (J)	0.198	0.221				
8/17/2020									
8/18/2020							0.165		
8/19/2020						0.223		0.103	
3/9/2021				0.205		0.17		0.0949 (J)	0.628
3/10/2021	0.115	<0.04	0.085 (J)				0.0749 (J)		
3/15/2021									
3/16/2021					0.282				
8/17/2021				0.212					0.494



# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-15	GC-AP-MW-24 (bg)	GC-AP-MW-23 (bg)	GC-AP-MW-18	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-11	GC-AP-MW-7	GC-AP-MW-17
8/18/2021									
8/23/2021					0.322				
8/24/2021		<0.04	0.0713 (J)			0.161		0.1	
8/25/2021	0.167						0.135		
3/28/2022			<0.04						
3/29/2022	0.117 (J)					0.193		0.104 (J)	
3/30/2022							<0.04		
4/4/2022		<0.04			0.216				0.5855 (D)
4/5/2022									
4/6/2022				0.1385 (JD)					
10/5/2022									
10/17/2022		<0.04	<0.04	0.176	0.192		0.118 (J)		
10/18/2022	0.139					0.154		0.0649 (J)	0.544
10/19/2022									
5/16/2023		<0.04	0.0935 (J)						
5/17/2023					0.24		0.157		0.535
5/22/2023				0.186					
5/23/2023	0.144								
5/24/2023									
5/30/2023						0.193		0.111 (J)	
5/31/2023									
10/23/2023				0.164					0.515
10/24/2023	0.144				0.208				
10/25/2023		0.108	0.0761			0.143	0.141	0.0713	
10/30/2023									
11/1/2023									

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-3	GC-AP-MW-1	GC-AP-MW-2	GC-AP-MW-30 (bg)	GC-AP-MW-32	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-31	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	0.08 (J)	0.05 (J)	0.09 (J)						
4/12/2016	0.083 (J)								
4/13/2016		0.061 (J)	0.092 (J)						
5/31/2016									
6/1/2016	0.118 (J)	0.079 (J)	0.108 (J)						
8/15/2016	0.109 (J)	0.081 (J)	0.105 (J)						
8/16/2016				0.036 (J)	0.054 (J)	0.05 (J)	0.061 (J)	0.087 (J)	
8/17/2016									0.159 (J)
9/19/2016					0.023 (J)		0.018 (J)	0.045 (J)	
9/20/2016				<0.04		0.015 (J)			0.126 (J)
10/11/2016	0.066 (J)	0.049 (J)	0.062 (J)	<0.04	0.011 (J)	<0.04	<0.04	0.034 (J)	
10/12/2016									0.1 (J)
11/14/2016					<0.04		<0.04	<0.04	
11/15/2016				<0.04		<0.04			0.016 (J)
1/3/2017					<0.04		<0.04	<0.04	
1/4/2017				<0.04		<0.04			<0.04
3/13/2017						<0.04			0.31 (o)
3/14/2017	0.07 (J)	0.04 (J)	<0.04	<0.04	<0.04		<0.04	<0.04	
3/15/2017									
5/9/2017	0.09 (J)	0.05 (J)	0.07 (J)	<0.04		<0.04			0.25 (o)
5/10/2017					0.05 (J)		0.06 (J)	0.05 (J)	
6/27/2017		0.04 (J)		<0.04	0.04 (J)	<0.04	0.07 (J)	0.05 (J)	0.22 (o)
6/28/2017	0.1		0.09 (J)						
8/29/2017									0.22 (o)
8/30/2017	0.12	0.04 (J)	0.07 (J)	<0.04	0.04 (J)	<0.04	0.08 (J)	<0.04	
2/27/2018	0.09 (J)	0.07 (J)	0.08 (J)	<0.04	0.04 (J)	<0.04	0.07 (J)	<0.04	0.08 (J)
2/28/2018									
6/4/2018	0.1	0.07 (J)	0.09 (J)						
6/5/2018				<0.04	0.04 (J)	<0.04	0.1	<0.04	0.07 (J)
6/6/2018									
11/5/2018					<0.04				
11/6/2018	0.1	0.04 (J)	0.07 (J)	<0.04		<0.04	0.08 (J)	<0.04	0.07 (J)
11/7/2018									
3/26/2019				<0.04		<0.04			<0.04
3/27/2019	0.13	0.192	0.089 (J)		<0.04		<0.04	<0.04	
9/9/2019	0.121		0.163						
9/10/2019		0.179							
9/11/2019				<0.04	0.0518 (J)	<0.04	<0.04	<0.04	0.0716 (J)
4/20/2020	0.112								
4/21/2020		0.12	0.126	<0.04		<0.04			<0.04
4/22/2020					<0.04		<0.04	<0.04	
8/11/2020								<0.04	
8/12/2020					<0.04		<0.04		
8/17/2020	0.148	0.115	0.0753 (J)						
8/18/2020				<0.04		<0.04			<0.04
8/19/2020									
3/9/2021									
3/10/2021									
3/15/2021				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
3/16/2021	0.23	0.129	0.185						
8/17/2021	0.184	0.158	0.0974 (J)						

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-3	GC-AP-MW-1	GC-AP-MW-2	GC-AP-MW-30 (bg)	GC-AP-MW-32	GC-AP-MW-29 (bg)	GC-AP-MW-33	GC-AP-MW-31	GC-AP-MW-26 (bg)
8/18/2021				<0.04		<0.04			<0.04
8/23/2021					<0.04		<0.04	<0.04	
8/24/2021									
8/25/2021									
3/28/2022			0.105 (J)	<0.04	<0.04	<0.04	<0.04	<0.04	
3/29/2022									
3/30/2022									
4/4/2022		0.124 (JD)							<0.04
4/5/2022	0.146 (JD)								
4/6/2022									
10/5/2022	0.12 (J)	0.125	0.124 (J)		<0.04		<0.04	0.0671 (J)	
10/17/2022									
10/18/2022									
10/19/2022				<0.04		<0.04			<0.04
5/16/2023		0.144							
5/17/2023	0.147		0.0918 (J)						
5/22/2023					<0.04		<0.04		
5/23/2023								<0.04	
5/24/2023									
5/30/2023				<0.04		<0.04			0.0642 (J)
5/31/2023									
10/23/2023									
10/24/2023	0.166	0.0372 (J)	0.06	<0.04		<0.04			0.0327 (J)
10/25/2023									
10/30/2023					0.0401		0.064	0.0258 (J)	
11/1/2023									

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
Plant Greene County Data: Greene County AP

GC-AP-MW-27 (bg)GC-AP-MW-28 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	0.039 (J)	0.055 (J)
9/19/2016		
9/20/2016	0.01 (o)	0.021 (o)
10/11/2016		
10/12/2016	<0.04	<0.04
11/14/2016		
11/15/2016	<0.04	<0.04
1/3/2017		
1/4/2017	<0.04	<0.04
3/13/2017		
3/14/2017	<0.04	<0.04
3/15/2017		
5/9/2017	<0.04	<0.04
5/10/2017		
6/27/2017	<0.04	<0.04
6/28/2017		
8/29/2017	<0.04	
8/30/2017		<0.04
2/27/2018	<0.04	<0.04
2/28/2018		
6/4/2018		
6/5/2018	<0.04	<0.04
6/6/2018		
11/5/2018		
11/6/2018	<0.04	<0.04
11/7/2018		
3/26/2019	<0.04	<0.04
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	<0.04	0.0649 (J)
4/20/2020		
4/21/2020	<0.04	<0.04
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	<0.04	<0.04
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	<0.04	<0.04
3/16/2021		
8/17/2021		

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
Plant Greene County Data: Greene County AP

	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
8/18/2021	<0.04	<0.04
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	<0.04	<0.04
3/29/2022		
3/30/2022		
4/4/2022		
4/5/2022		
4/6/2022		
10/5/2022		
10/17/2022		
10/18/2022		
10/19/2022	<0.04	0.0698 (J)
5/16/2023		
5/17/2023		
5/22/2023		
5/23/2023		
5/24/2023		
5/30/2023	0.0734 (J)	<0.04
5/31/2023		
10/23/2023		
10/24/2023	<0.04	0.0218 (J)
10/25/2023		
10/30/2023		
11/1/2023		

# Prediction Limit

Constituent: pH (SU) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-8	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-21	GC-AP-MW-1	GC-AP-MW-15
2/16/2016	6.5	6.84	6.4	6.16	6.21	6.29	7.15		
2/17/2016								5.8	6.02
4/12/2016			6.41		6.37				6.17
4/13/2016	6.32	7.03		6.29		6.21	7.1	5.85	
5/31/2016		6.94	6.22		6.42	6.45			6.15
6/1/2016	6.43			6.33			6.76	5.92	
8/15/2016								5.99	
8/16/2016		6.84	6.41			6.58	6.99		6.21
8/17/2016	6.46			6.27	6.42				
9/19/2016									
9/20/2016									
10/11/2016								6.02	6.14
10/12/2016	6.53	6.75	6.42	6.3	6.38	6.6	6.89		
10/31/2016									
11/1/2016			6.55		6.33				6.15
11/2/2016									
11/14/2016									
11/15/2016									
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								5.92	6.11
1/25/2017	6.45	6.87	6.76	6.27	6.37	6.47	6.84		
1/26/2017									
3/13/2017									
3/14/2017					6.3			5.96	6.09
3/15/2017	6.39	6.9	6.82	6.27		6.54	6.78		
5/9/2017		6.85	6.7		6.43		6.83	5.93	
5/10/2017	6.39			6.25		6.53			6.11
5/31/2017									
6/27/2017								5.86	6.09
6/28/2017	6.4	6.85	6.58	6.25	6.4	6.49	6.98		
8/29/2017	6.47	6.86	6.4	6.32	6.32	6.49	6.8		
8/30/2017								5.88	6.1
2/27/2018	6.54			6.36	6.28	6.59		5.92	
2/28/2018		6.94	6.72				6.87		6.11
6/4/2018								5.89	
6/5/2018	6.47			6.3		6.52			6.05
6/6/2018		6.99	6.57		6.25		6.94		
9/10/2018							6.74	5.89	
9/11/2018	6.53	6.87	6.64	6.36		6.53			6.18
9/12/2018					6.42				
11/5/2018		6.81	6.69				6.66		
11/6/2018								5.95	6.09
11/7/2018	6.49			6.31	6.42	6.51			
3/26/2019	6.47	6.95	6.54	6.32			6.84		6.1
3/27/2019					6.41	6.53		5.8	
9/9/2019									
9/10/2019	6.43	6.69		6.31	6.11	6.33	6.58	5.88	5.82
9/11/2019			6.22						

# Prediction Limit

Constituent: pH (SU) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-9	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-8	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-21	GC-AP-MW-1	GC-AP-MW-15
4/20/2020			6.68						6.16
4/21/2020	6.25	6.96		6.06	6.31		6.81	5.72	
4/22/2020						6.44			
8/11/2020					6.02				
8/12/2020									6.1
8/17/2020								5.54	
8/18/2020	6.21	6.98	6.76			6.33	6.31		
8/19/2020				6.06					
3/9/2021	6.14			6.31	6.48				
3/10/2021		6.89					6.26		6.08
3/15/2021			6			6.29			
3/16/2021								5.67	
8/17/2021								5.49	
8/18/2021									
8/23/2021									
8/24/2021	6.08			6.16		6.04			
8/25/2021		7.04	6.66		6.21		6.51		6.12
3/28/2022									
3/29/2022	5.61	6.44		6.21					5.81
3/30/2022							6.09		
4/4/2022					6.39 (D)	6.21 (D)		5.17 (D)	
4/5/2022									
4/6/2022			6.24						
10/5/2022								5.59	
10/17/2022		6.88	6.22				6.21		
10/18/2022	6.27			6.45	6.46	6.62			6.29
10/19/2022									
5/16/2023								5.45	
5/17/2023									
5/22/2023									
5/23/2023									6.25
5/24/2023					6.4	6.59			
5/30/2023	6.38	6.87		6.62			6.03		
5/31/2023			6.37						
10/23/2023									
10/24/2023								5.66	6.29
10/25/2023	6.22	6.77	6.47	6.47			6.01		
10/30/2023									
11/1/2023					6.8	6.91			







# Prediction Limit

Constituent: pH (SU) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-5	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-26 (bg)	GC-AP-MW-28 (bg)	GC-AP-MW-27 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-29 (bg)
2/16/2016									
2/17/2016	6.63								
4/12/2016	6.59								
4/13/2016									
5/31/2016	6.57								
6/1/2016									
8/15/2016									
8/16/2016		7.13	6	6.34				5.39	6.21
8/17/2016	6.72				5.85	6.15	5.47		
9/19/2016		6.94	6	6.11					
9/20/2016					5.82	4.99	5.22	5.37	6.05
10/11/2016	6.69	6.82	6.02	5.99				5.39	6.2
10/12/2016					5.76	4.88	5.1		
10/31/2016						4.87		5.36	6.61
11/1/2016		6.71	5.97	5.84					
11/2/2016									
11/14/2016		6.57	5.98	5.83					
11/15/2016					5.79	4.81	5.07	5.33	6.64
11/28/2016		6.57	6	5.79					
11/29/2016					5.73	4.84	5.1	5.33	6.39
1/3/2017		6.56	6.03	5.39					
1/4/2017					5.69	4.88	5.3	5.49	6.06
1/23/2017					5.45		5.12	5.48	
1/24/2017	6.61	6.41	5.9			5.4			
1/25/2017				5.09					
1/26/2017									6.02
3/13/2017					4.8				5.68
3/14/2017	6.55	6.37	6.07	4.99		5.13	4.74	5.17	
3/15/2017									
5/9/2017	6.65				4.82	4.96	4.83	5.11	5.05
5/10/2017		6.41	6	4.63					
5/31/2017			6.02						
6/27/2017		6.14	6.05	4.76	5.27	5.34	4.87	5.29	4.9
6/28/2017	6.66								
8/29/2017					5.28		4.71		
8/30/2017	6.66	6.08	6.13	4.85		4.69		5.09	4.73
2/27/2018	6.73	5.99	6.1	4.69	5.11	4.91	4.96	5.25	4.87
2/28/2018									
6/4/2018									
6/5/2018	6.63	5.93	6.05	4.62	5.24	4.87	5	5.12	4.89
6/6/2018									
9/10/2018									
9/11/2018	6.65	5.86	6.07	4.79	5.28	4.65	4.94	5.19	4.88
9/12/2018									
11/5/2018			6.01						
11/6/2018	6.65	5.89		4.62	5.54	4.67	4.9	5.12	4.86
11/7/2018									
3/26/2019					5.4	4.92	4.96	5.16	4.97
3/27/2019	6.59	5.95	6.15	4.68					
9/9/2019									
9/10/2019									
9/11/2019	6.36	5.85	5.87	4.57	5.53	4.33	4.85	4.11	3.96



# Prediction Limit

Constituent: pH (SU) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
Plant Greene County Data: Greene County AP

	GC-AP-MW-24 (bg)	GC-AP-MW-23 (bg)
2/16/2016		
2/17/2016	5.39	6.8
4/12/2016	5.29	6.54
4/13/2016		
5/31/2016		
6/1/2016	5.39	6.49
8/15/2016		
8/16/2016	5.51	6.57
8/17/2016		
9/19/2016		
9/20/2016		
10/11/2016	5.44	6.54
10/12/2016		
10/31/2016		
11/1/2016		
11/2/2016	5.49	6.54
11/14/2016		
11/15/2016		
11/28/2016		
11/29/2016		
1/3/2017		
1/4/2017		
1/23/2017		
1/24/2017	5.44	6.42
1/25/2017		
1/26/2017		
3/13/2017		
3/14/2017	5.48	6.59
3/15/2017		
5/9/2017		6.42
5/10/2017	5.43	
5/31/2017		
6/27/2017		6.44
6/28/2017	5.49	
8/29/2017	5.46	6.43
8/30/2017		
2/27/2018	5.48	6.49
2/28/2018		
6/4/2018		
6/5/2018	5.31	6.43
6/6/2018		
9/10/2018		
9/11/2018	5.36	6.35
9/12/2018		
11/5/2018		
11/6/2018		
11/7/2018	5.34	6.37
3/26/2019	5.32	6.46
3/27/2019		
9/9/2019		
9/10/2019	4.9	5.85
9/11/2019		

# Prediction Limit

Constituent: pH (SU) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
Plant Greene County Data: Greene County AP

	GC-AP-MW-24 (bg)	GC-AP-MW-23 (bg)
4/20/2020		
4/21/2020		6.26
4/22/2020	5.3	
8/11/2020		
8/12/2020	5.04	6.03
8/17/2020		
8/18/2020		
8/19/2020		
3/9/2021		
3/10/2021	5.14	6.17
3/15/2021		
3/16/2021		
8/17/2021		
8/18/2021		
8/23/2021		
8/24/2021	5.16	6.09
8/25/2021		
3/28/2022		6.08
3/29/2022		
3/30/2022		
4/4/2022	4.4 (D)	
4/5/2022		
4/6/2022		
10/5/2022		
10/17/2022	5.22	6.22
10/18/2022		
10/19/2022		
5/16/2023	4.8	6.09
5/17/2023		
5/22/2023		
5/23/2023		
5/24/2023		
5/30/2023		
5/31/2023		
10/23/2023		
10/24/2023		
10/25/2023	5.33	6.17
10/30/2023		
11/1/2023		

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III

Plant Greene County Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-9	GC-AP-MW-8	GC-AP-MW-13	GC-AP-MW-21	GC-AP-MW-1	GC-AP-MW-15
2/16/2016	119	108	9.03	45.2	49.4	113	125		
2/17/2016								785	187
4/12/2016		114				86.7			188
4/13/2016	122		10.7	43.9	51.7		119	715	
5/31/2016	94.3	114	10.2			83.1			183
6/1/2016				32	51.2		99.2	832	
8/15/2016								862	
8/16/2016	67.1		9.1			59.3	71.9		196
8/17/2016		85.4		31.9	42.9				
9/19/2016									
9/20/2016									
10/11/2016								888	216
10/12/2016	94.1	53.5	7.24	39.6	39.5	99.3	93.9		
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								906	183
1/25/2017	101	75.4	9.71	44	31.3	113	103		
1/26/2017									
5/9/2017	91	84				74	100	810	
5/10/2017			11	32	30				160
6/27/2017								830	150
6/28/2017	71	120	10	34	35	71	69		
8/29/2017	80	180	14	34	40	72	77		
8/30/2017								910	160
6/4/2018								850	
6/5/2018			39	22	25				160
6/6/2018	62	450				48	81		
9/10/2018							64	920	
9/11/2018	63		29	33	23	62			140
9/12/2018		200							
11/5/2018	74					81	68		
11/6/2018								880	160
11/7/2018		180	45	76	30				
3/26/2019	92.3			138	21.6	92.4	92		157
3/27/2019		335	66.2					1090	
9/9/2019									
9/10/2019	89.3	193	50.5	115	37.4		63.1	992	150
9/11/2019						128			
4/20/2020						76.5			142
4/21/2020	121	168		133	43.3		99	874	
4/22/2020			63.2						
8/11/2020		242							
8/12/2020									160
8/17/2020								919	
8/18/2020	89		58.6	115		203	63.4		
8/19/2020					44.5				
3/9/2021		165		107	71.7				
3/10/2021	155						51.7		136
3/15/2021			68.5			204			

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-9	GC-AP-MW-8	GC-AP-MW-13	GC-AP-MW-21	GC-AP-MW-1	GC-AP-MW-15
3/16/2021								933	
8/17/2021								745	
8/18/2021									
8/23/2021									
8/24/2021			71.6	139	71.4				
8/25/2021	118	346				181	76.1		153
3/28/2022									
3/29/2022	108			193	75.3				165
3/30/2022							115		
4/4/2022		195.5 (D)	116.5 (D)					812.5 (D)	
4/5/2022									
4/6/2022						157			
10/5/2022								737	
10/17/2022	96.199997					467	103		
10/18/2022		185	104	171	84.800003				152
10/19/2022									
5/16/2023								578	
5/17/2023									
5/22/2023									
5/23/2023									131
5/24/2023		178	119						
5/30/2023	106			135	69.5		89.400002		
5/31/2023						162			
10/23/2023									
10/24/2023								714	128
10/25/2023	74.300003			81.300003	91.699997	64.800003	72.400002		
10/30/2023									
11/1/2023		135	124						

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-5	GC-AP-MW-11	GC-AP-MW-3	GC-AP-MW-16	GC-AP-MW-2	GC-AP-MW-6	GC-AP-MW-7
2/16/2016									
2/17/2016	72.3	60.2	<1	40.2	<1	87.4	304	132	311
4/12/2016		68.2	0.483 (J)		0.49 (J)			130	
4/13/2016	123			33.1		92.7	307		330
5/31/2016			0.518 (J)	28.1				111	324
6/1/2016	144	61.4			0.544 (J)	111	273		
8/15/2016	50.1	56			0.332 (J)	98.3	275		
8/16/2016				38.5					
8/17/2016			3.63					95.8	306
9/19/2016									
9/20/2016									
10/11/2016			15.6		<1		284	101	
10/12/2016	72.6	36.6		38.3		99.3			296
11/14/2016									
11/15/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	63.4	12.3	28.9		<1	85.4	302	129	
1/25/2017				32					243
1/26/2017									
5/9/2017			25	44	2.1 (J)		250		
5/10/2017	82	10				74		120	210
6/27/2017	44	9.7				75			
6/28/2017			45	88	<1		230	100	210
8/29/2017				110				95	220
8/30/2017	230	7.8	96		<1	87	250		
6/4/2018					1.4 (J)		260		
6/5/2018	230	13	36	79		87		98	390
6/6/2018									
9/10/2018				80			280		
9/11/2018			48					100	360
9/12/2018	33	28			<1	63			
11/5/2018				81					
11/6/2018	220	11	93		<1	97	280		
11/7/2018								97	390
3/26/2019	161	21.3				123		120	430
3/27/2019			33.4	83.2	6.64		375		
9/9/2019	57.3	17.8			6.56		385		
9/10/2019				87.2		68		140	409
9/11/2019			149						
4/20/2020					10.5	49.6			
4/21/2020	78	19.2	163				522	153	318
4/22/2020				58.7					
8/11/2020	46.7					55			
8/12/2020		13.8	132						
8/17/2020					17.3		497		
8/18/2020				81.1					
8/19/2020								163	296
3/9/2021	95.8	11.6				43.9		187	347
3/10/2021				73.2					
3/15/2021									





# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-32	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-28 (bg)
2/16/2016									
2/17/2016	14.7	10.4	28.7						
4/12/2016	20	11.3	32.5						
4/13/2016									
5/31/2016									
6/1/2016	20.1	10.4	31.9						
8/15/2016									
8/16/2016	19.1	12.2		9.33	0.894 (J)	2.06	1.78	0.702 (J)	
8/17/2016			30.5						6.46
9/19/2016				11.2		1.44	2.06		
9/20/2016					<1			<1	8.3
10/11/2016	18.4	19.8	32.3	12.6	<1	1.38	2.33	<1	
10/12/2016									8.36
11/14/2016				12.4		1.15	2.31		
11/15/2016					1.19			<1	8.75
1/3/2017				14.3		1.57	2.81		
1/4/2017					<1			<1	7.85
1/23/2017								0.493 (J)	
1/24/2017	15	30.7	33.5			2.06	3.34		6.62
1/25/2017				15.2					
1/26/2017					0.6 (J)				
5/9/2017	14		33		<1			<1	5.6
5/10/2017		33		12		2.1 (J)	2.9 (J)		
6/27/2017	14			13	<1	2.7 (J)	3.4 (J)	<1	5.3
6/28/2017		56	35						
8/29/2017	16	61	37						
8/30/2017				15	<1	2.6 (J)	3.7 (J)	<1	8.2
6/4/2018									
6/5/2018	14	97		17	1.4 (J)	3.1 (J)	3.7 (J)	<1	8.3
6/6/2018			47						
9/10/2018									
9/11/2018	13	83		16	<1	1.6 (J)	2.2 (J)	<1	8.9
9/12/2018			41						
11/5/2018						2.4 (J)			
11/6/2018			48	15	<1		3.1 (J)	<1	8.6
11/7/2018	14	91							
3/26/2019	12.3	103			0.594 (J)			<1	10.1
3/27/2019			62.4	15.1		3.24	3.55		
9/9/2019									
9/10/2019	12.4	83.4	66						
9/11/2019				14.5	<1	2.66	3.83	<1	10.6
4/20/2020									
4/21/2020	10.2				0.694 (J)			<1	9.4
4/22/2020		84.7	76.1	9.64		2.51	3.78		
8/11/2020			79.5				4.33		
8/12/2020	10.2	82.2		13.6		2.54			
8/17/2020									
8/18/2020					0.608 (J)			<1	10.3
8/19/2020									
3/9/2021									
3/10/2021	11.8	99.9	70.3						
3/15/2021				2.76	<1	8.5	3.74	<1	10.4

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-33	GC-AP-MW-29 (bg)	GC-AP-MW-32	GC-AP-MW-31	GC-AP-MW-30 (bg)	GC-AP-MW-28 (bg)
3/16/2021									
8/17/2021									
8/18/2021					0.86 (J)			0.754 (J)	10.1
8/23/2021				2.44		9.18	4		
8/24/2021	11.6	81.8	66.6						
8/25/2021									
3/28/2022	11.8			11.8	1.29 (J)	2.55	3.34	0.951 (J)	11.2
3/29/2022			68.6						
3/30/2022									
4/4/2022		90.2							
4/5/2022									
4/6/2022									
10/5/2022				12.2		2.71	4.08		
10/17/2022	9.72	79.599998							
10/18/2022			70.599998						
10/19/2022					1.37 (J)			1.27 (J)	8.96
5/16/2023	9.41	103							
5/17/2023									
5/22/2023				15.5		2.5			
5/23/2023							3		
5/24/2023									
5/30/2023			88.099998		1.11 (J)			1.44 (J)	10.1
5/31/2023									
10/23/2023									
10/24/2023					1.19 (J)			0.867 (J)	9.11
10/25/2023	12.6	78.900002							
10/30/2023				17.6		3.36	3.75		
11/1/2023			72.599998						

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
Plant Greene County Data: Greene County AP

GC-AP-MW-27 (bg)GC-AP-MW-26 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	0.928 (J)	16.2
9/19/2016		
9/20/2016	0.478 (J)	14.9
10/11/2016		
10/12/2016	0.727 (J)	12.4
11/14/2016		
11/15/2016	0.448 (J)	8.6
1/3/2017		
1/4/2017	0.627 (J)	12.2
1/23/2017	1.34	16
1/24/2017		
1/25/2017		
1/26/2017		
5/9/2017	<1	55
5/10/2017		
6/27/2017	<1	45
6/28/2017		
8/29/2017	<1	37
8/30/2017		
6/4/2018		
6/5/2018	2.1 (J)	9.3
6/6/2018		
9/10/2018		
9/11/2018	<1	7.8
9/12/2018		
11/5/2018		
11/6/2018	<1	6
11/7/2018		
3/26/2019	1.66	6.86
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	1.29	5.29
4/20/2020		
4/21/2020	2.21	6.28
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	1.57	9.57
8/19/2020		
3/9/2021		
3/10/2021		
3/15/2021	2.5	7.66

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-26 (bg)
3/16/2021		
8/17/2021		
8/18/2021	3.18	7.07
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	6.24	
3/29/2022		
3/30/2022		
4/4/2022		12.5
4/5/2022		
4/6/2022		
10/5/2022		
10/17/2022		
10/18/2022		
10/19/2022	3.95	12.5
5/16/2023		
5/17/2023		
5/22/2023		
5/23/2023		
5/24/2023		
5/30/2023	5.96	16
5/31/2023		
10/23/2023		
10/24/2023	6.24	15.4
10/25/2023		
10/30/2023		
11/1/2023		

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-9	GC-AP-MW-8	GC-AP-MW-13	GC-AP-MW-21	GC-AP-MW-1	GC-AP-MW-15
2/16/2016	264	340	312	226	656	242	264		
2/17/2016								1540	408
4/12/2016		298				176			334
4/13/2016	238		324	202	634		226	1200	
5/31/2016	206	309	333			189			351
6/1/2016				224	672		231	1440	
8/15/2016								1420	
8/16/2016	180		327			192	181		367
8/17/2016		269		290	624				
9/19/2016									
9/20/2016									
10/11/2016								1420	
10/12/2016	223		312	315	586		225		
10/31/2016									
11/1/2016		252				244			372
11/2/2016									
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017								1350	354
1/25/2017	271	259	286	332	596	274	277		
1/26/2017									
5/9/2017	236	285				191	255	1540	
5/10/2017			326	361	576				332
6/27/2017								1470	331
6/28/2017	198	348	304	396	612	176	175		
8/29/2017	187	528	348	402	640	163	218		
8/30/2017								1530	317
6/4/2018								1370	
6/5/2018			346	448	474				318
6/6/2018	199	932				138	207		
9/10/2018							197	1380	
9/11/2018	184		335	462	496	185			321
9/12/2018		180							
11/5/2018	210					208	200		
11/6/2018								1450	331
11/7/2018		528	342	506	514				
3/26/2019	230			586	546	198	218		338 (D)
3/27/2019		834	347					1910	
9/9/2019									
9/10/2019	218 (D)	658	351	586	601 (D)		198	1740	358
9/11/2019						316			
4/20/2020						201			369
4/21/2020	291	628		578	638		265	1530	
4/22/2020			338						
8/11/2020		688							
8/12/2020									401
8/17/2020								1590	
8/18/2020	250		376	542		444	179		
8/19/2020					658				

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-14	GC-AP-MW-10	GC-AP-MW-9	GC-AP-MW-8	GC-AP-MW-13	GC-AP-MW-21	GC-AP-MW-1	GC-AP-MW-15
3/9/2021		618		532	746				
3/10/2021	331						296		397
3/15/2021			406			374			
3/16/2021								1620	
8/17/2021								1340	
8/18/2021									
8/23/2021									
8/24/2021			423	624	690				
8/25/2021	263	774				359	207		407
3/28/2022									
3/29/2022	290			800	730				406
3/30/2022							320		
4/4/2022		644 (D)	443.5 (D)					1310 (D)	
4/5/2022									
4/6/2022						298			
10/5/2022								1190	
10/17/2022	243					708	311		
10/18/2022		662	449	692	700				423
10/19/2022									
5/16/2023								1050	
5/17/2023									
5/22/2023									
5/23/2023									410
5/24/2023		650	490						
5/30/2023	279			646	676		237		
5/31/2023						333			
10/23/2023									
10/24/2023								1260	409
10/25/2023	189			525	702	189	205		
10/30/2023									
11/1/2023		653	452						

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-17	GC-AP-MW-18	GC-AP-MW-5	GC-AP-MW-11	GC-AP-MW-3	GC-AP-MW-16	GC-AP-MW-2	GC-AP-MW-6	GC-AP-MW-7
2/16/2016									
2/17/2016	328	464	238	158	358	310	516	640	892
4/12/2016		491	316		393			610	
4/13/2016	373			161		372	508		1010
5/31/2016			320	173				626	1100
6/1/2016	442	468			381	360	494		
8/15/2016	392	454			348	366	476		
8/16/2016				173					
8/17/2016			325					628	1070
9/19/2016									
9/20/2016									
10/11/2016			333		379		508	636	
10/12/2016				173					1040
10/31/2016									
11/1/2016									
11/2/2016	469	422				374			
11/28/2016									
11/29/2016									
1/3/2017									
1/4/2017									
1/23/2017									
1/24/2017	464	408	336		354	380	510	696	
1/25/2017				161					972
1/26/2017									
5/9/2017			317	195	368		510		
5/10/2017	492	358				381		687	740
6/27/2017	516	382				404			
6/28/2017			373	227	368		480	622	914
8/29/2017				229				616	924
8/30/2017	646	392	432		370	420	478		
6/4/2018					369		528		
6/5/2018	644	352	347	200		408		582	1060
6/6/2018									
9/10/2018				183			472		
9/11/2018			370					616	1020
9/12/2018	476	339			354	415			
11/5/2018				193					
11/6/2018	634	368	409		354	447	522		
11/7/2018								576	1050
3/26/2019	516	406				481		682	1100
3/27/2019			328	211	362		562		
9/9/2019	500	409 (D)			371		666		
9/10/2019				201		453		744	1100
9/11/2019			455						
4/20/2020					371	461			
4/21/2020	490	429	494				878	742	1010
4/22/2020				249					
8/11/2020	522					482			
8/12/2020		390	433						
8/17/2020					361		818		
8/18/2020				260					
8/19/2020								788	1050





# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-33	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-26 (bg)
2/16/2016									
2/17/2016	142	53	144						
4/12/2016	155	38.7	140						
4/13/2016									
5/31/2016									
6/1/2016	148	46	139						
8/15/2016									
8/16/2016	132	48		101	142	49.3	41.3	<25	
8/17/2016			142						64
9/19/2016				80	121	44.7			
9/20/2016							42.7	26.7	60
10/11/2016									
10/12/2016									54.7
10/31/2016							140	25.3	
11/1/2016				78	103	48			
11/2/2016	115	66.7	128						
11/28/2016				68.7	84	40.7			
11/29/2016							78	<25	42
1/3/2017				60.7	89.3	49.3			
1/4/2017							34	34.7	56
1/23/2017								33.3	50.7
1/24/2017	107	78.7	124		83.3	48.7			
1/25/2017				54.7					
1/26/2017							32.7		
5/9/2017	80.7		136				<25	<25	126
5/10/2017		92.7		60.7	31.3	46.7			
6/27/2017	96.7			58	67.3	55.3	30.7	<25	93.3
6/28/2017		118	145						
8/29/2017	120	128	139						84
8/30/2017				66.7	64	57.3	25.3	28	
6/4/2018									
6/5/2018	113	171		71.3	50	52.7	<25	28.7	38.7
6/6/2018			153						
9/10/2018									
9/11/2018	108	170		66.7	53.3	60	<25	29.3	35.3
9/12/2018			156						
11/5/2018						53.3			
11/6/2018			153	61.3	66		<25	<25	40.7
11/7/2018	96.7	163							
3/26/2019	103	174					<25	26.15 (D)	36.7
3/27/2019			178	65.3	48.7	51.35 (D)			
9/9/2019									
9/10/2019	107	167	182						
9/11/2019				68.3 (D)	52.7	55.3	<25	34	40.7
4/20/2020									
4/21/2020	107						<25	26.7	39.3
4/22/2020		162	195	62.7	49.3	52.7			
8/11/2020			193		52				
8/12/2020	96	165		62		49.3			
8/17/2020									
8/18/2020							<25	30	42
8/19/2020									

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-23 (bg)	GC-AP-MW-24 (bg)	GC-AP-MW-25	GC-AP-MW-33	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-29 (bg)	GC-AP-MW-30 (bg)	GC-AP-MW-26 (bg)
3/9/2021									
3/10/2021	105	179	246						
3/15/2021				48	49.3	46	<25	30	42.7
3/16/2021									
8/17/2021									
8/18/2021							<25	28.7	43.3
8/23/2021				48.7	49.3	64.7			
8/24/2021	96.7	167	224						
8/25/2021									
3/28/2022	96			57.3	43.3	51.3	<25	27.3	
3/29/2022			247						
3/30/2022									
4/4/2022		155							40.7
4/5/2022									
4/6/2022									
10/5/2022				62.700001	40.700001	43.299999			
10/17/2022	83.300003	134							
10/18/2022			256						
10/19/2022							<25	28	54
5/16/2023	86	182							
5/17/2023									
5/22/2023				66		51.299999			
5/23/2023					47.299999				
5/24/2023									
5/30/2023			225				<25	28.700001	57.299999
5/31/2023									
10/23/2023									
10/24/2023							<25	<25	60
10/25/2023	87.300003	147							
10/30/2023				58.700001	52.700001	58.700001			
11/1/2023			251						

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
Plant Greene County Data: Greene County AP

GC-AP-MW-27 (bg)GC-AP-MW-28 (bg)

2/16/2016		
2/17/2016		
4/12/2016		
4/13/2016		
5/31/2016		
6/1/2016		
8/15/2016		
8/16/2016		
8/17/2016	36.7	65.3
9/19/2016		
9/20/2016	25.3	44
10/11/2016		
10/12/2016	<25	
10/31/2016		38.7
11/1/2016		
11/2/2016		
11/28/2016		
11/29/2016	<25	34
1/3/2017		
1/4/2017	27.3	42
1/23/2017	<25	
1/24/2017		45.3
1/25/2017		
1/26/2017		
5/9/2017	28.7	49.3
5/10/2017		
6/27/2017	27.3	46
6/28/2017		
8/29/2017	30.7	
8/30/2017		38.7
6/4/2018		
6/5/2018	26	34.7
6/6/2018		
9/10/2018		
9/11/2018	<25	34.7
9/12/2018		
11/5/2018		
11/6/2018	26	36
11/7/2018		
3/26/2019	<25	30
3/27/2019		
9/9/2019		
9/10/2019		
9/11/2019	27.3	40
4/20/2020		
4/21/2020	30.7	36
4/22/2020		
8/11/2020		
8/12/2020		
8/17/2020		
8/18/2020	27.3	35.3
8/19/2020		

# Prediction Limit

Constituent: TDS (mg/L) Analysis Run 1/3/2024 8:25 AM View: Appendix III  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-27 (bg)	GC-AP-MW-28 (bg)
3/9/2021		
3/10/2021		
3/15/2021	30.7	30
3/16/2021		
8/17/2021		
8/18/2021	28.7	32
8/23/2021		
8/24/2021		
8/25/2021		
3/28/2022	32.7	38.7
3/29/2022		
3/30/2022		
4/4/2022		
4/5/2022		
4/6/2022		
10/5/2022		
10/17/2022		
10/18/2022		
10/19/2022	26	28.700001
5/16/2023		
5/17/2023		
5/22/2023		
5/23/2023		
5/24/2023		
5/30/2023	33.299999	32.700001
5/31/2023		
10/23/2023		
10/24/2023	27.299999	28
10/25/2023		
10/30/2023		
11/1/2023		

FIGURE F.

# Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 1/8/2024, 11:50 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-10	0.127	93	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-14	0.2	157	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-15	0.07148	179	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-16	0.1144	135	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-17	0.08225	119	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-18	-0.05059	-115	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-25	0.004563	139	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-5	0.01914	105	87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-6	-0.1141	-141	-87	Yes	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-9	0.1284	134	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-1	-13.53	-107	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-10	4.397	132	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-11	5.001	189	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-14	14.39	138	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-15	5.79	159	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-16	9.125	205	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-17	12.71	172	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-2	16.98	158	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-23 (bg)	-2.078	-163	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-24 (bg)	5.625	191	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-28 (bg)	-0.1453	-135	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-29 (bg)	-0.1205	-142	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-30 (bg)	-0.1081	-129	-92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-5	7.218	193	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-6	4.027	97	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-8	2.549	95	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-9	10.11	115	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-14	-0.869	-131	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-16	-0.6992	-110	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-17	-1.049	-101	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-23 (bg)	-0.07075	-132	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-27 (bg)	0.06811	99	92	Yes	22	4.545	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-3	-0.4753	-97	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-31	0.141	111	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-5	-1.014	-159	-92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-6	1.639	100	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-7	9.642	127	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	7.249	185	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.01972	137	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.009809	114	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-17	0.02393	102	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-3	0.01057	140	92	Yes	22	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-16	0.02875	143	111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-17	0.04606	144	111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (bg)	-0.07406	-194	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-24 (bg)	-0.05505	-148	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (bg)	-0.07473	-145	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (bg)	-0.0874	-119	-118	Yes	26	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (bg)	-0.3139	-187	-118	Yes	26	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (bg)	-0.08357	-164	-118	Yes	26	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-10	14.85	195	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-11	15.77	151	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-6.541	-133	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-2	50.43	139	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.013	-167	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	12.44	129	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.4803	112	92	Yes	22	22.73	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.4682	121	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	24.11	174	92	Yes	22	4.545	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-6	12.95	110	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-10	19.84	172	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	24.74	185	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-14	59.14	104	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	23.26	185	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	29.59	142	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	65.9	143	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-5.823	-144	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	17.8	126	92	Yes	22	0	n/a	n/a	0.01	NP

# Trend Tests - Prediction Limit Exceedances - Significant Results Page 2

Plant: Greene County    Client: Southern Company    Data: Greene County AP    Printed 1/8/2024, 11:50 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
TDS (mg/L)	GC-AP-MW-25	16.26	173	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-2.057	-121	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-1.199	-126	-92	Yes	22	63.64	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-3	-5.53	-102	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	27.93	167	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-6	22.53	112	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	72.01	184	92	Yes	22	0	n/a	n/a	0.01	NP



# Trend Tests - Prediction Limit Exceedances - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 1/8/2024, 11:50 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GC-AP-MW-1	0.009318	45	87	No	21	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>0.127</b>	<b>93</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	GC-AP-MW-11	0.00167	2	87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-12	0.006038	23	87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-13	0.02114	42	87	No	21	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.2</b>	<b>157</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>0.07148</b>	<b>179</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>0.1144</b>	<b>135</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>0.08225</b>	<b>119</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-18</b>	<b>-0.05059</b>	<b>-115</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	GC-AP-MW-2	0.002059	62	87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-21	0.01272	42	87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-23 (bg)	0	43	87	No	21	85.71	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-24 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GC-AP-MW-25</b>	<b>0.004563</b>	<b>139</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	GC-AP-MW-26 (bg)	0	10	87	No	21	95.24	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-27 (bg)	0	27	87	No	21	90.48	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-28 (bg)	0	10	87	No	21	95.24	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-29 (bg)	0	14	87	No	21	95.24	n/a	n/a	0.01	NP
Boron (mg/L)	GC-AP-MW-30 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>0.01914</b>	<b>105</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>GC-AP-MW-6</b>	<b>-0.1141</b>	<b>-141</b>	<b>-87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	GC-AP-MW-8	-0.05971	-29	-87	No	21	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>0.1284</b>	<b>134</b>	<b>87</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-1</b>	<b>-13.53</b>	<b>-107</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>4.397</b>	<b>132</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-11</b>	<b>5.001</b>	<b>189</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>14.39</b>	<b>138</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>5.79</b>	<b>159</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>9.125</b>	<b>205</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>12.71</b>	<b>172</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GC-AP-MW-18	-0.121	-6	-92	No	22	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-2</b>	<b>16.98</b>	<b>158</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-2.078</b>	<b>-163</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-24 (bg)</b>	<b>5.625</b>	<b>191</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GC-AP-MW-26 (bg)	0.03942	3	92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GC-AP-MW-27 (bg)	0.07088	75	92	No	22	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-28 (bg)</b>	<b>-0.1453</b>	<b>-135</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-29 (bg)</b>	<b>-0.1205</b>	<b>-142</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GC-AP-MW-3	-4.87	-89	-92	No	22	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-30 (bg)</b>	<b>-0.1081</b>	<b>-129</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>7.218</b>	<b>193</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-6</b>	<b>4.027</b>	<b>97</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	GC-AP-MW-7	0.3952	4	92	No	22	0	n/a	n/a	0.01	NP
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-8</b>	<b>2.549</b>	<b>95</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>10.11</b>	<b>115</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-1	0.2074	6	92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-10	-0.2762	-42	-92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-11	-0.1215	-14	-92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-13	-0.6023	-52	-92	No	22	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>-0.869</b>	<b>-131</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-15	-0.4345	-72	-92	No	22	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>-0.6992</b>	<b>-110</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>-1.049</b>	<b>-101</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-18	0.3234	76	92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-2	-0.5203	-91	-92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-21	-0.05307	-9	-92	No	22	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-23 (bg)</b>	<b>-0.07075</b>	<b>-132</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-24 (bg)	-0.04687	-24	-92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-25	-0.241	-17	-92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-26 (bg)	0.001905	3	92	No	22	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-27 (bg)</b>	<b>0.06811</b>	<b>99</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>4.545</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-28 (bg)	-0.05253	-78	-92	No	22	9.091	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-29 (bg)	-0.1764	-92	-92	No	22	9.091	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-3</b>	<b>-0.4753</b>	<b>-97</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	GC-AP-MW-30 (bg)	0.2257	80	92	No	22	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-31</b>	<b>0.141</b>	<b>111</b>	<b>92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>-1.014</b>	<b>-159</b>	<b>-92</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

# Trend Tests - Prediction Limit Exceedances - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 1/8/2024, 11:50 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	GC-AP-MW-6	1.639	100	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-7	9.642	127	92	Yes	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-8	3.302	56	92	No	22	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GC-AP-MW-9	7.249	185	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-10	0.004345	43	92	No	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-12	0.001522	25	92	No	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-14	0.01972	137	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-16	0.009809	114	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-17	0.02393	102	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-18	0.002173	61	92	No	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-23 (bg)	-0.0005071	-16	-92	No	22	9.091	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-24 (bg)	0	29	92	No	22	63.64	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-26 (bg)	-0.007827	-66	-68	No	18	44.44	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-27 (bg)	0	37	87	No	21	90.48	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-28 (bg)	0	-14	-87	No	21	80.95	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-29 (bg)	0	-1	-92	No	22	90.91	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-3	0.01057	140	92	Yes	22	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-30 (bg)	0	21	92	No	22	95.45	n/a	n/a	0.01	NP
Fluoride (mg/L)	GC-AP-MW-5	0	5	92	No	22	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-10	0	4	105	No	24	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-12	0.000869	6	105	No	24	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-14	0.005124	23	111	No	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-16	0.02875	143	111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-17	0.04606	144	111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-23 (bg)	-0.07406	-194	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-24 (bg)	-0.05505	-148	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-26 (bg)	-0.08064	-93	-111	No	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-27 (bg)	-0.07473	-145	-111	Yes	25	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-28 (bg)	-0.0874	-119	-118	Yes	26	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-29 (bg)	-0.3139	-187	-118	Yes	26	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-30 (bg)	-0.08357	-164	-118	Yes	26	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-5	-0.008089	-50	-105	No	24	0	n/a	n/a	0.01	NP
pH (SU)	GC-AP-MW-7	-0.006651	-50	-105	No	24	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-1	-1.867	-5	-92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-10	14.85	195	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-11	15.77	151	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-14	14.08	81	92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-15	-6.541	-133	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-2	50.43	139	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-23 (bg)	-1.013	-167	-92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-24 (bg)	12.44	129	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-26 (bg)	-0.6758	-37	-92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-27 (bg)	0.4803	112	92	Yes	22	22.73	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-28 (bg)	0.4682	121	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-29 (bg)	0	33	92	No	22	45.45	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-30 (bg)	0	20	92	No	22	68.18	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-5	24.11	174	92	Yes	22	4.545	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-6	12.95	110	92	Yes	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GC-AP-MW-7	-6.813	-28	-92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-1	-19.51	-34	-92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-10	19.84	172	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-11	24.74	185	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-12	6.759	49	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-13	20.38	81	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-14	59.14	104	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-15	9.068	90	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-16	23.26	185	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-17	29.59	142	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-18	-9.196	-78	-92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-2	65.9	143	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-21	1.006	9	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-23 (bg)	-5.823	-144	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-24 (bg)	17.8	126	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-25	16.26	173	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-26 (bg)	-0.9865	-26	-92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-27 (bg)	0.4366	60	92	No	22	22.73	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-28 (bg)	-2.057	-121	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-29 (bg)	-1.199	-126	-92	Yes	22	63.64	n/a	n/a	0.01	NP

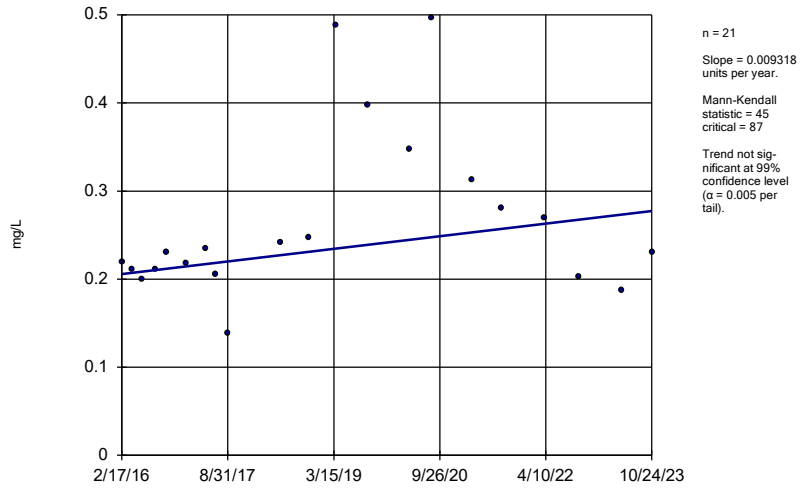
# Trend Tests - Prediction Limit Exceedances - All Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 1/8/2024, 11:50 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
TDS (mg/L)	GC-AP-MW-3	-5.53	-102	-92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-30 (bg)	0.2789	32	92	No	22	27.27	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-5	27.93	167	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-6	22.53	112	92	Yes	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-7	0	5	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-8	12.23	71	92	No	22	0	n/a	n/a	0.01	NP
TDS (mg/L)	GC-AP-MW-9	72.01	184	92	Yes	22	0	n/a	n/a	0.01	NP

### Sen's Slope Estimator

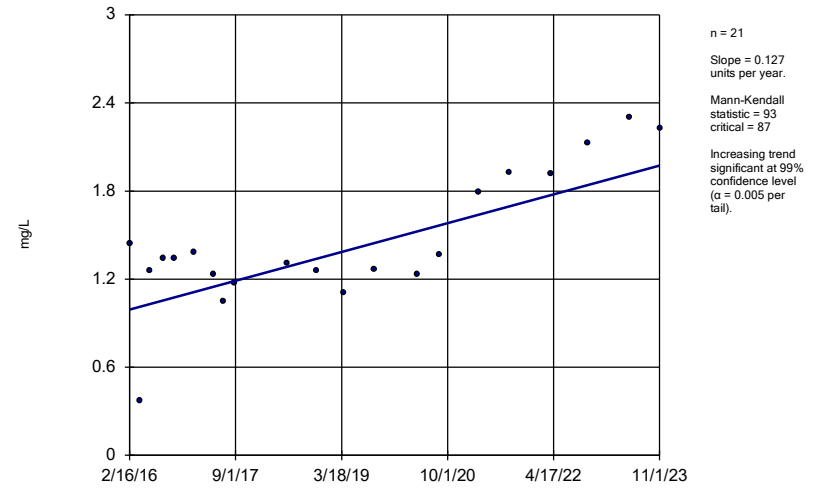
GC-AP-MW-1



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

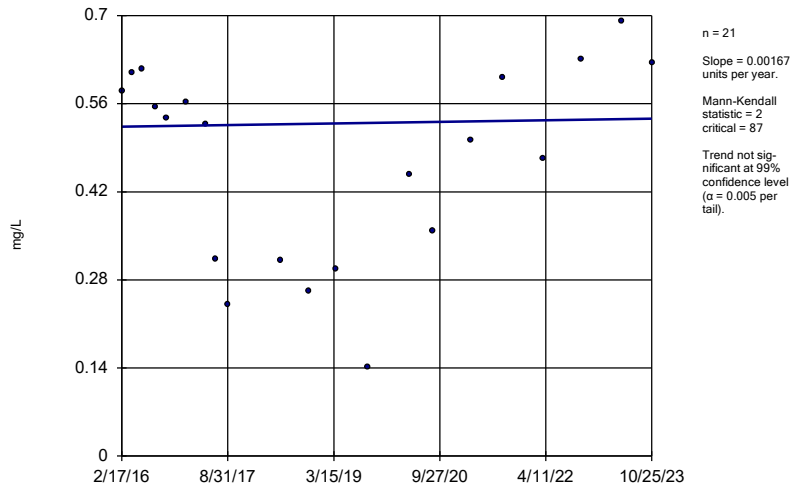
GC-AP-MW-10



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

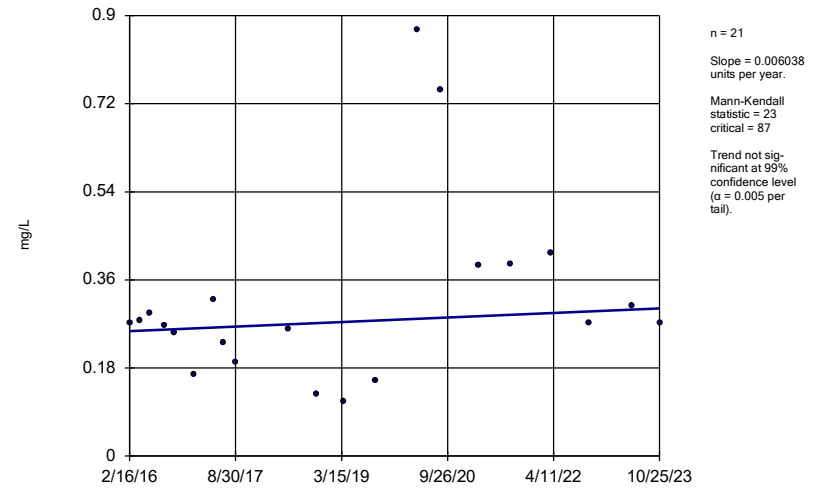
GC-AP-MW-11



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

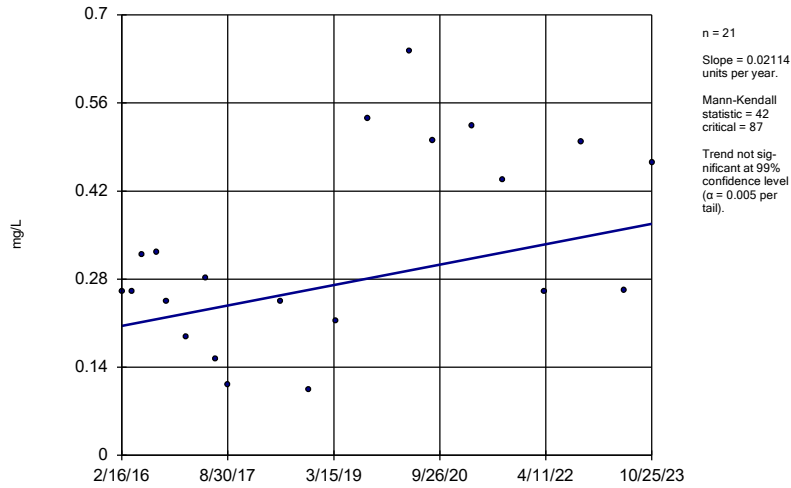
GC-AP-MW-12



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

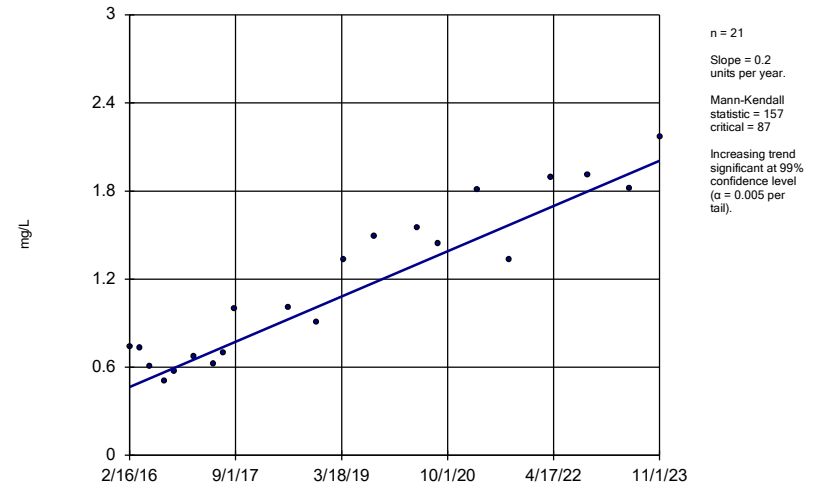
GC-AP-MW-13



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

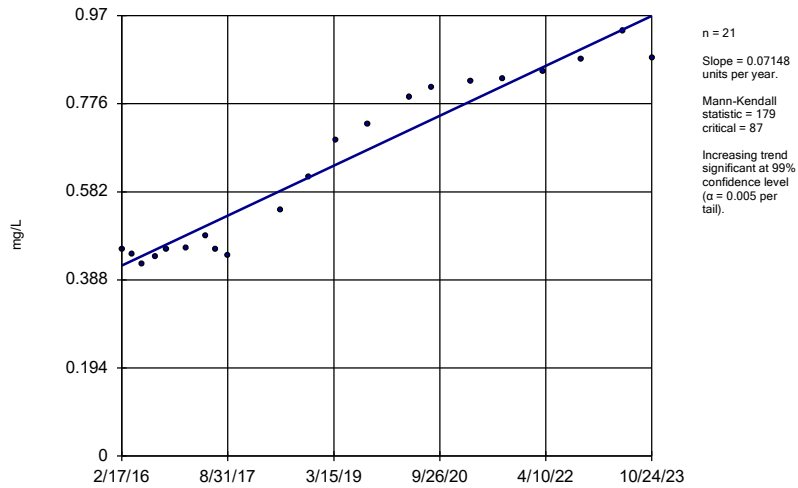
GC-AP-MW-14



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

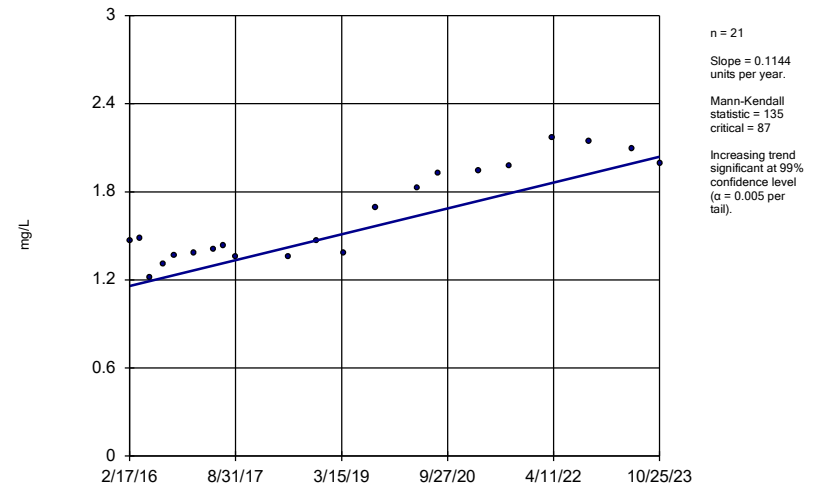
GC-AP-MW-15



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

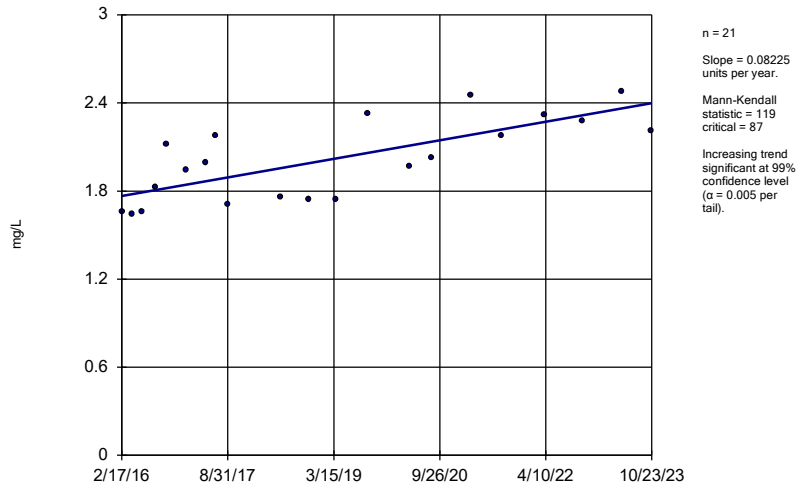
GC-AP-MW-16



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

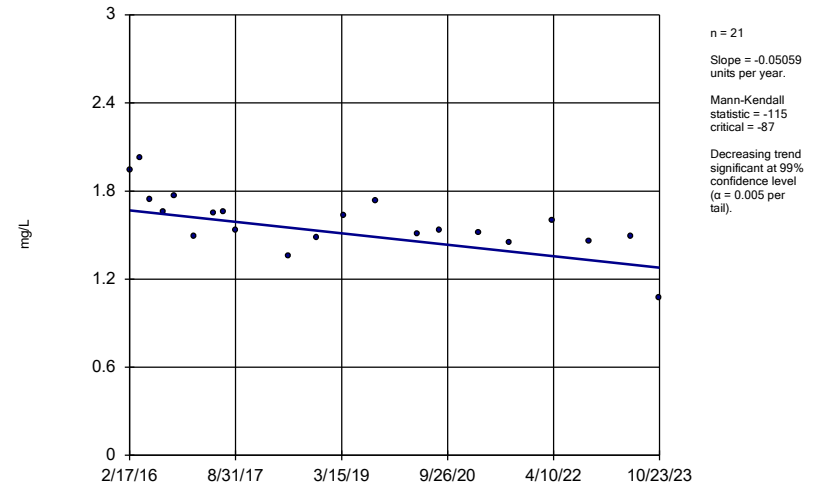
GC-AP-MW-17



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

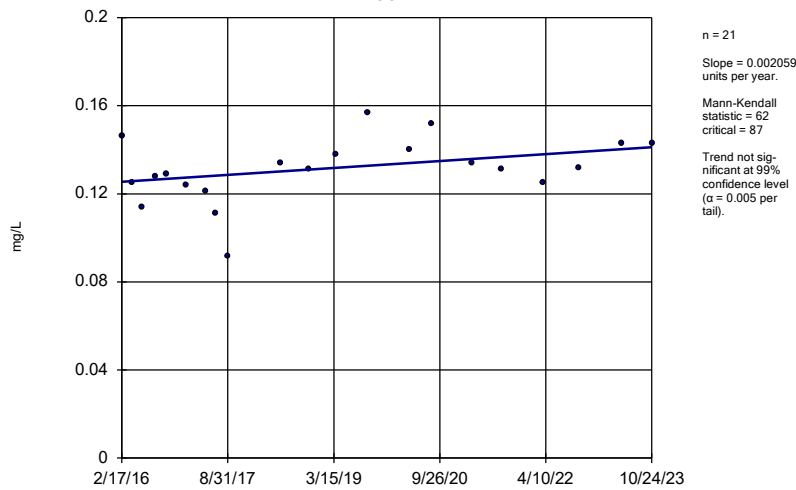
GC-AP-MW-18



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

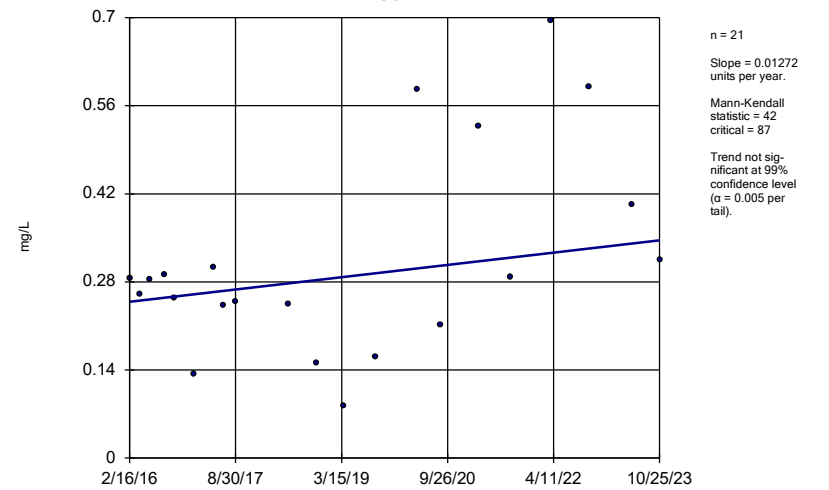
GC-AP-MW-2



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

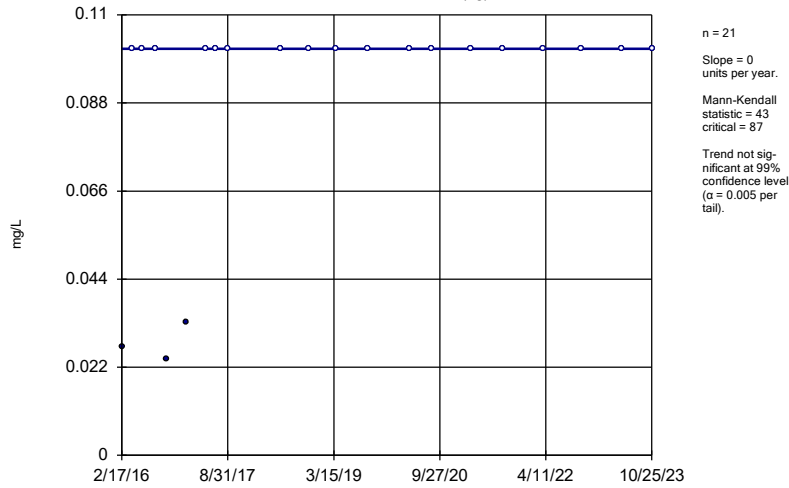
GC-AP-MW-21



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

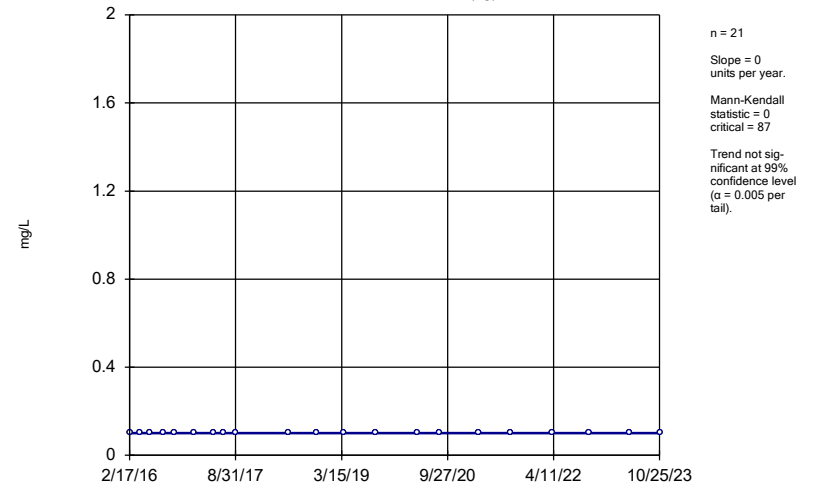
GC-AP-MW-23 (bg)



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

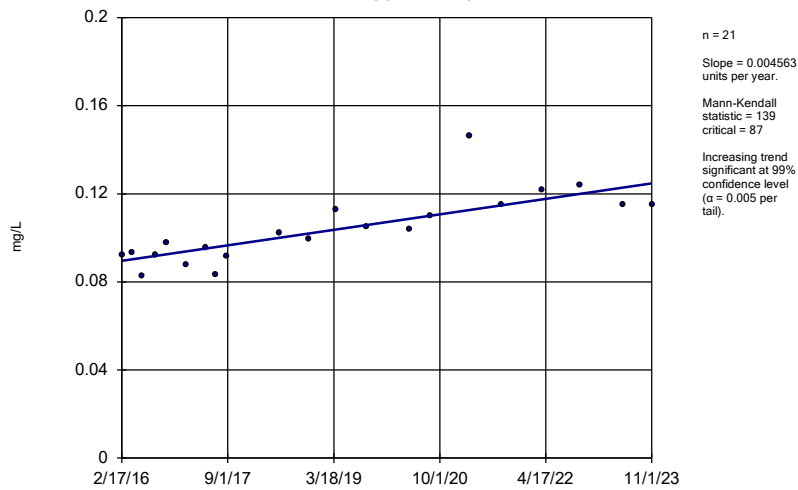
GC-AP-MW-24 (bg)



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

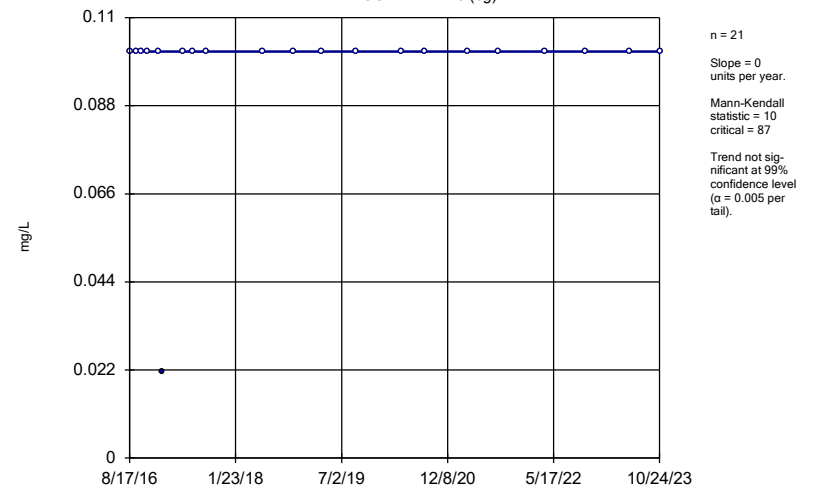
GC-AP-MW-25



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

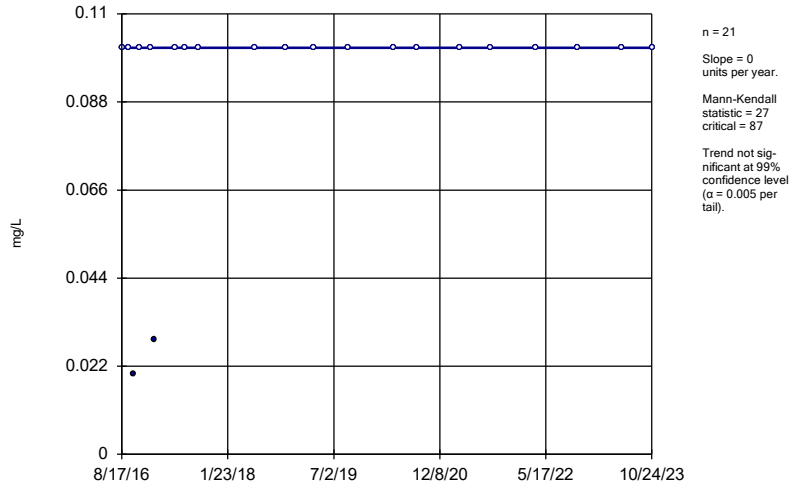
GC-AP-MW-26 (bg)



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

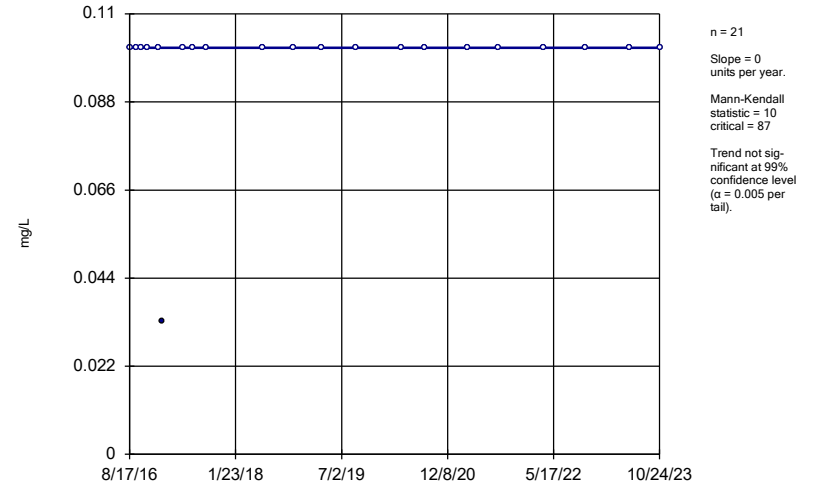
GC-AP-MW-27 (bg)



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

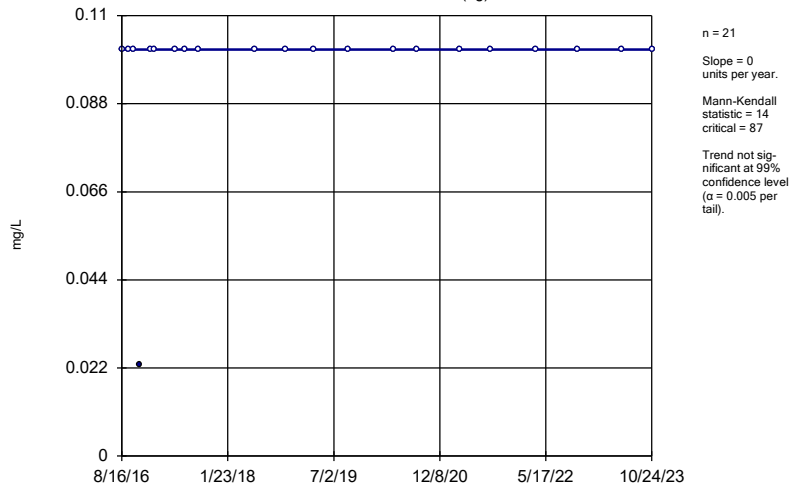
GC-AP-MW-28 (bg)



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

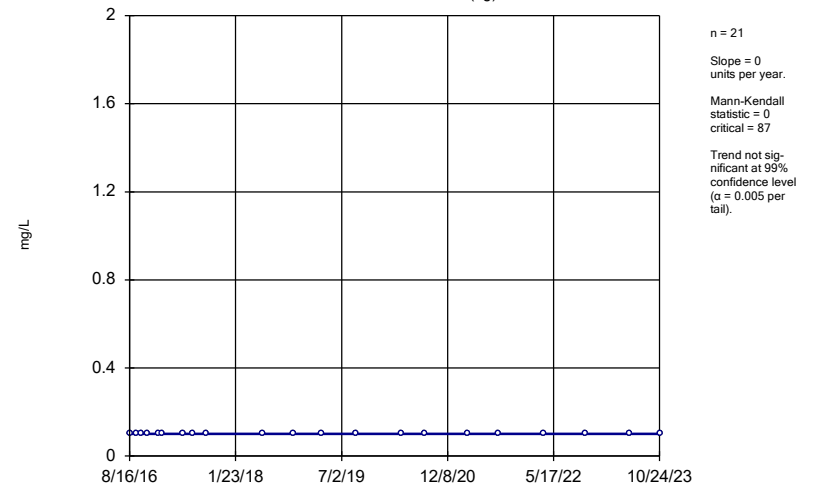
GC-AP-MW-29 (bg)



Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-30 (bg)

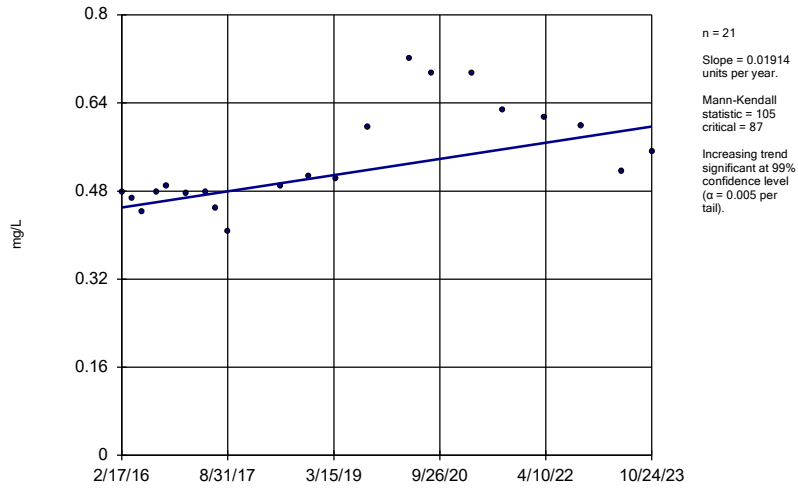


Constituent: Boron Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP



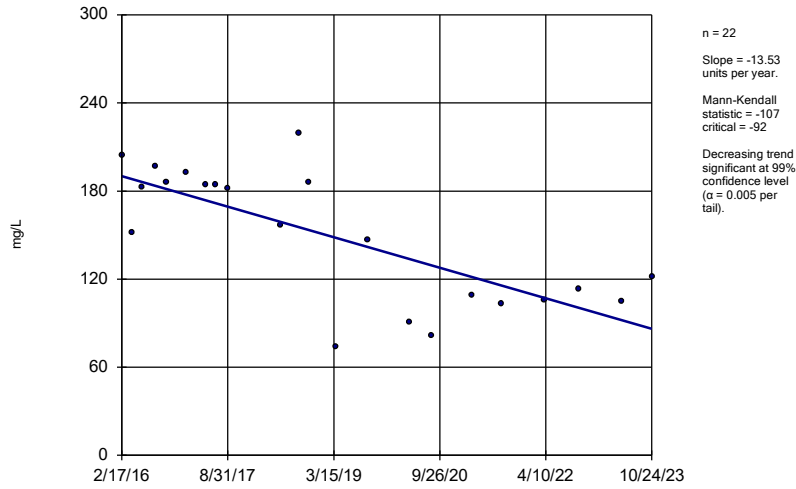
### Sen's Slope Estimator

GC-AP-MW-5



### Sen's Slope Estimator

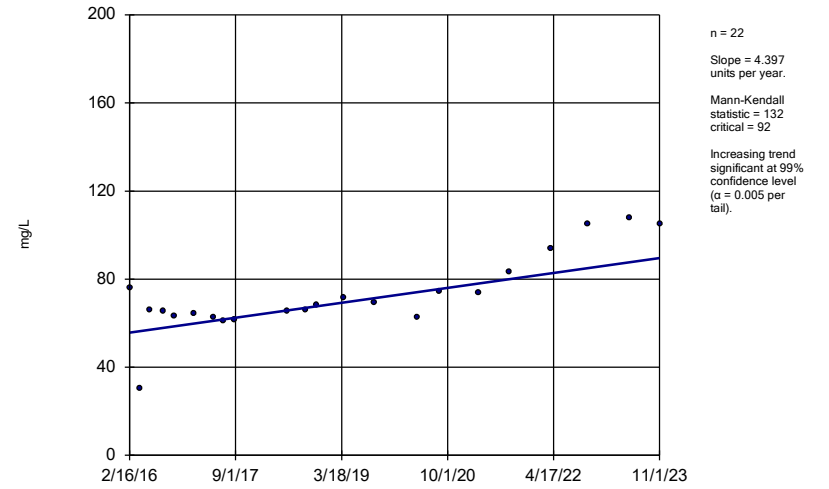
GC-AP-MW-1



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

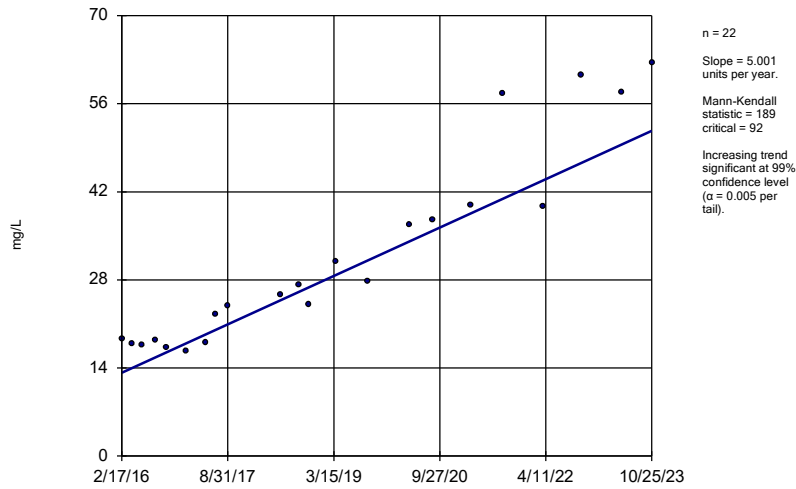
GC-AP-MW-10



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

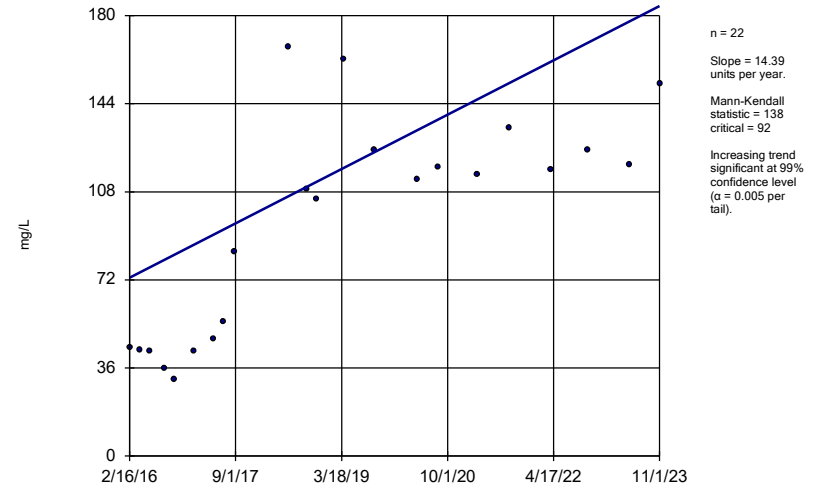
GC-AP-MW-11



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

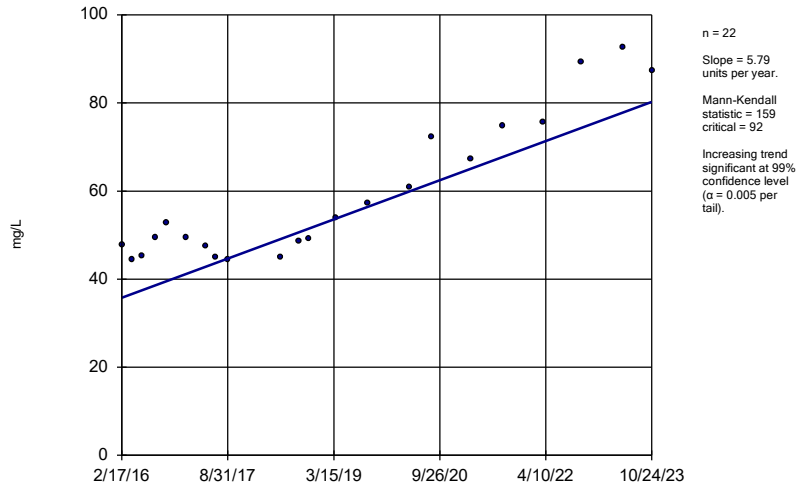
GC-AP-MW-14



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

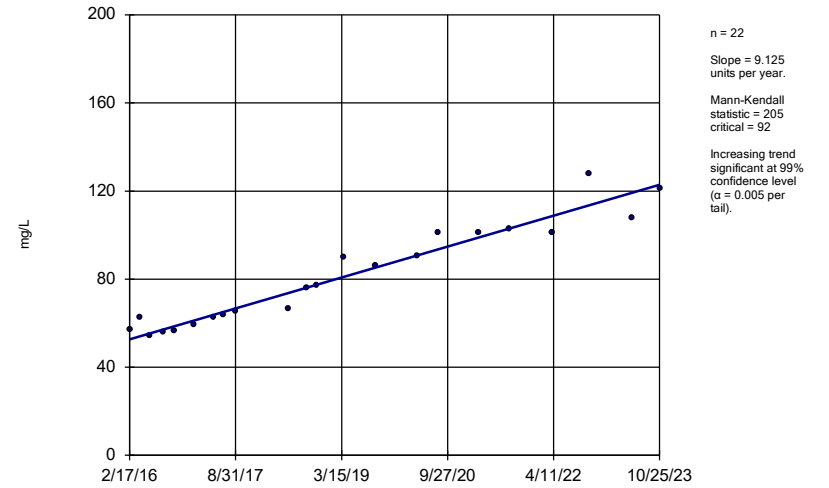
GC-AP-MW-15



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

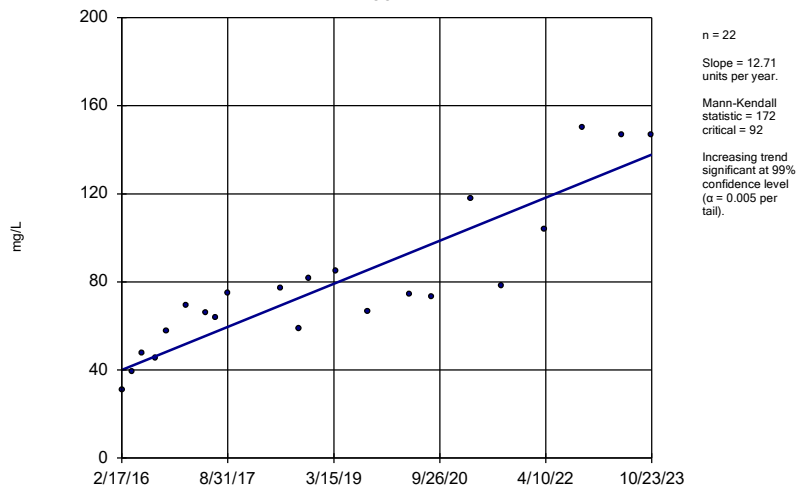
GC-AP-MW-16



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

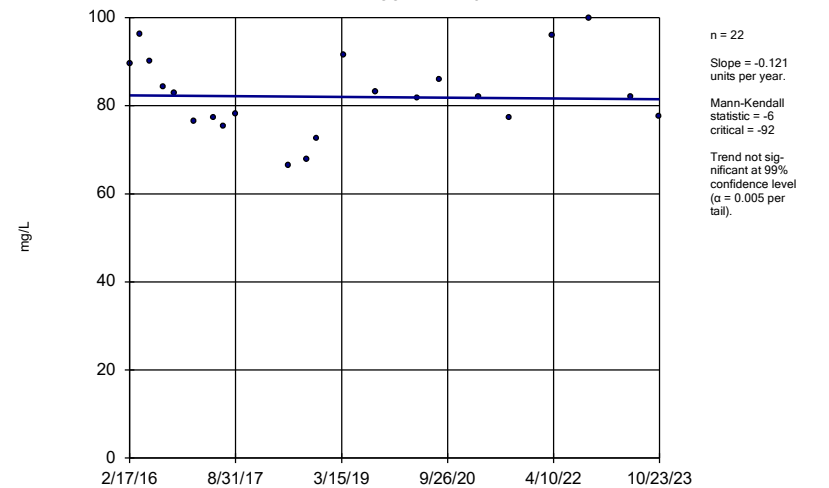
GC-AP-MW-17



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

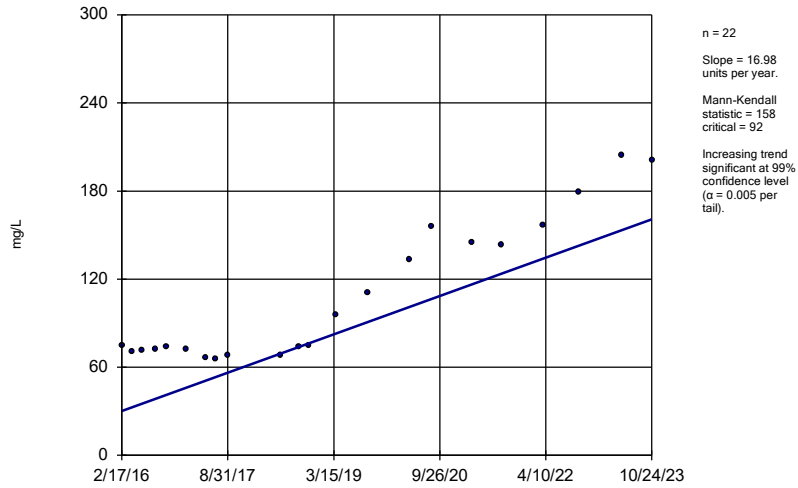
GC-AP-MW-18



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

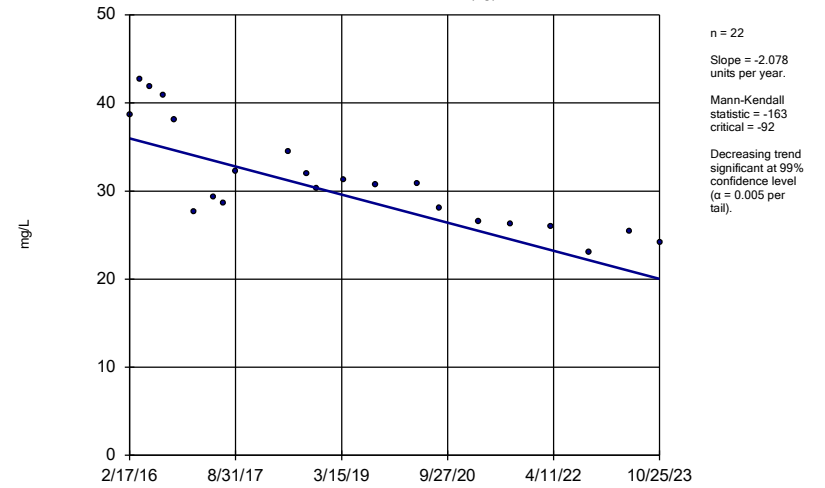
GC-AP-MW-2



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

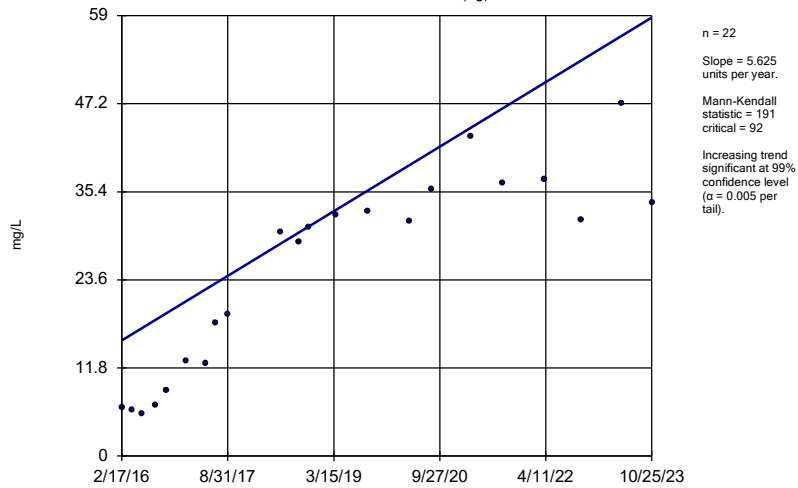
GC-AP-MW-23 (bg)



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

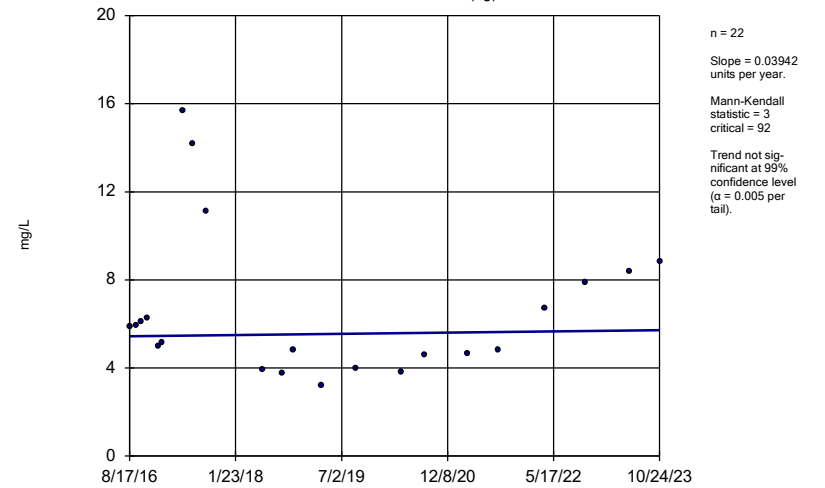
GC-AP-MW-24 (bg)



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

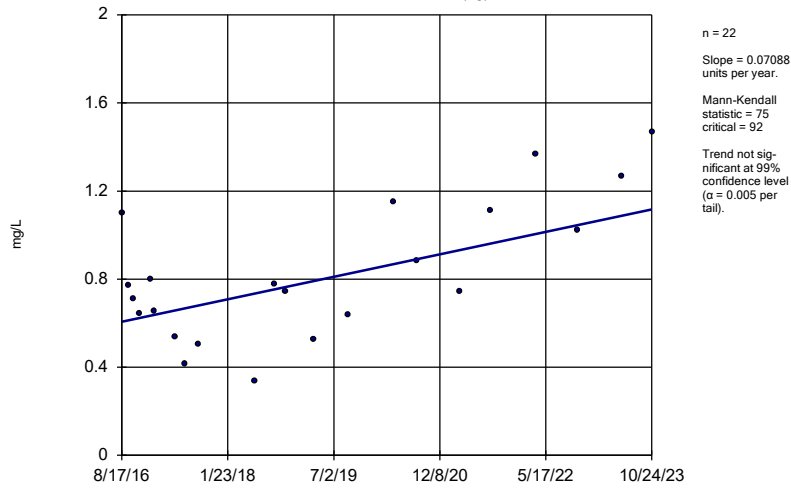
GC-AP-MW-26 (bg)



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

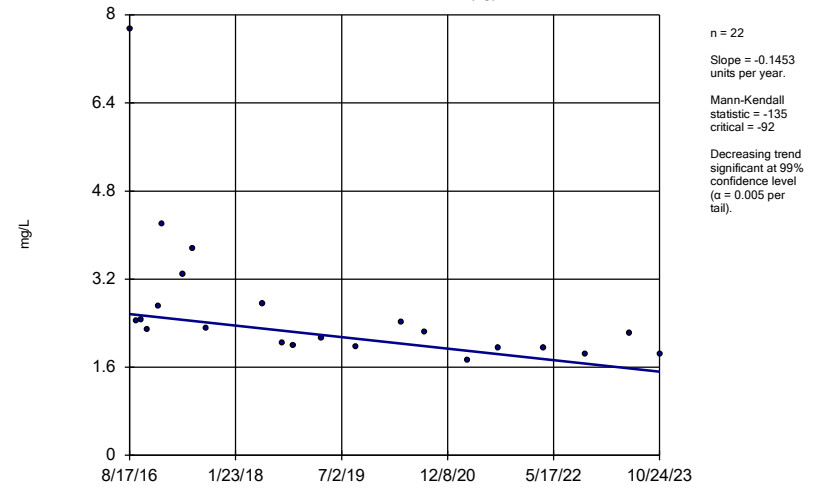
GC-AP-MW-27 (bg)



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

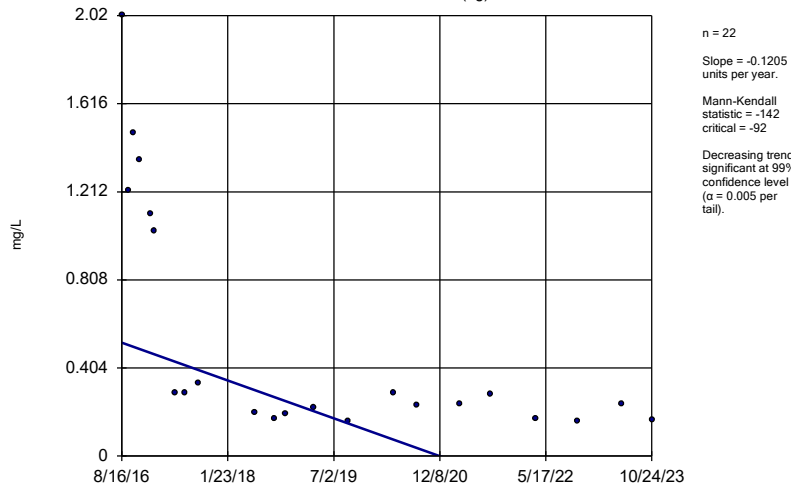
GC-AP-MW-28 (bg)



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

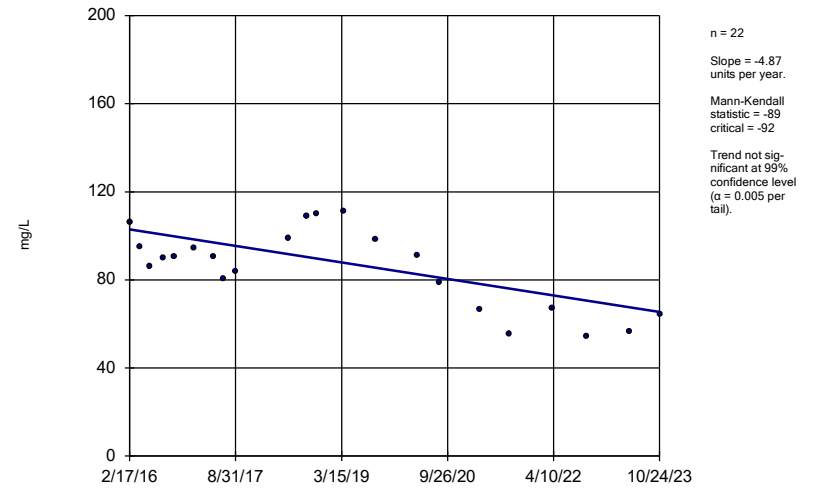
GC-AP-MW-29 (bg)



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

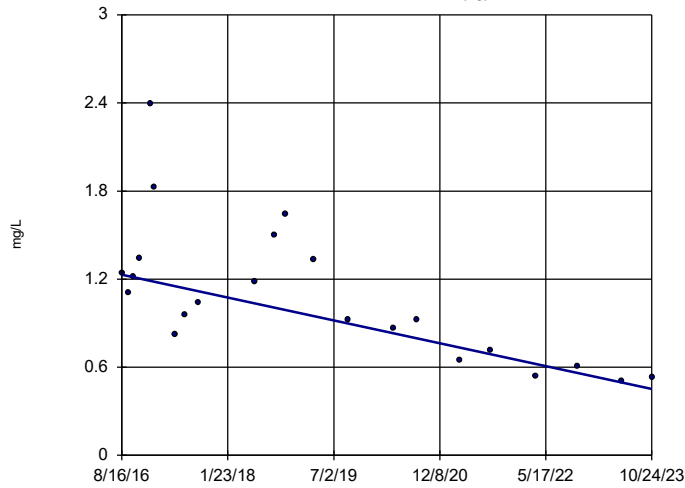
GC-AP-MW-3



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

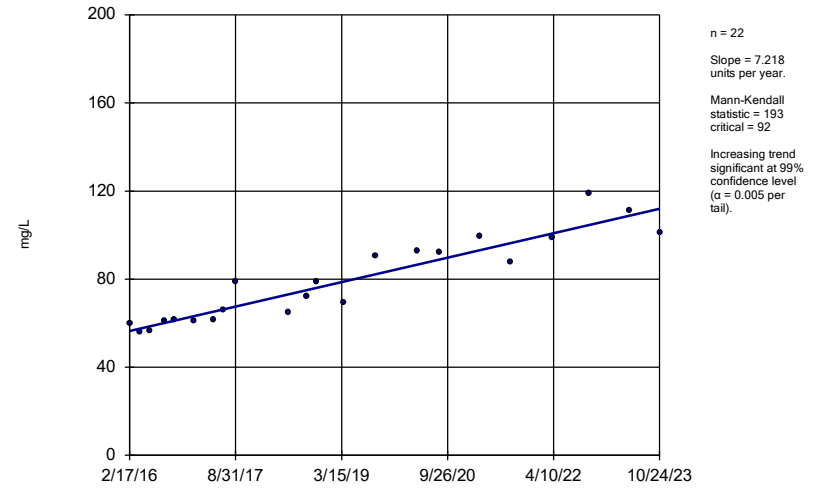
GC-AP-MW-30 (bg)



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

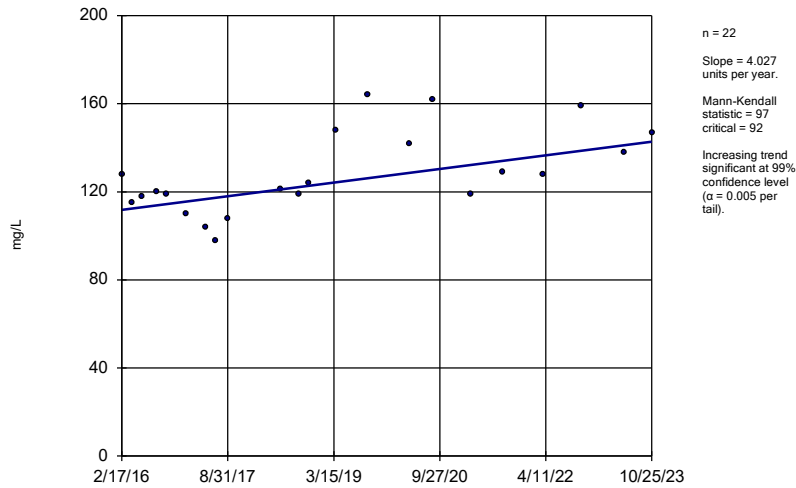
GC-AP-MW-5



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

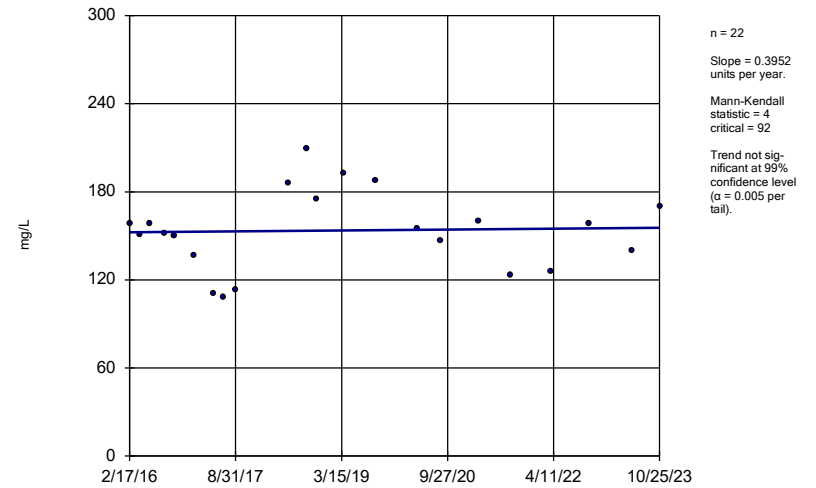
GC-AP-MW-6



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

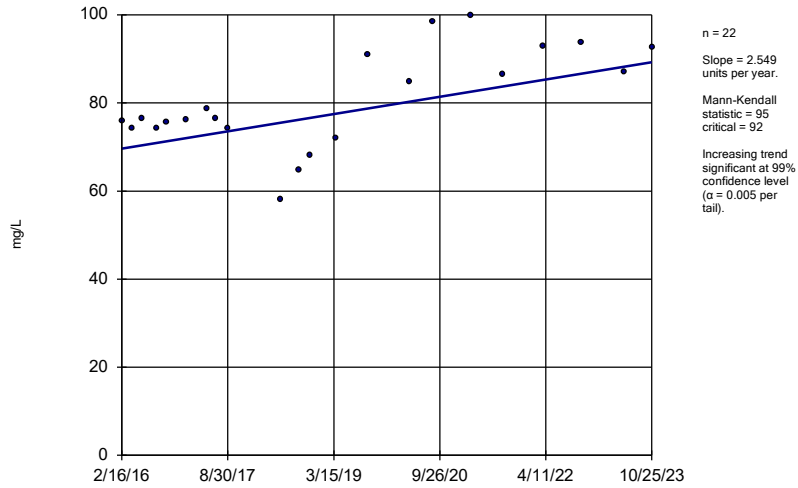
GC-AP-MW-7



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

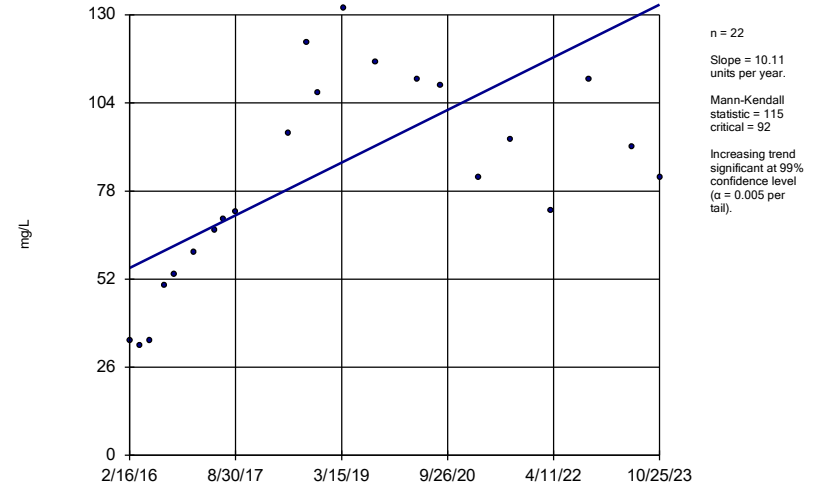
GC-AP-MW-8



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

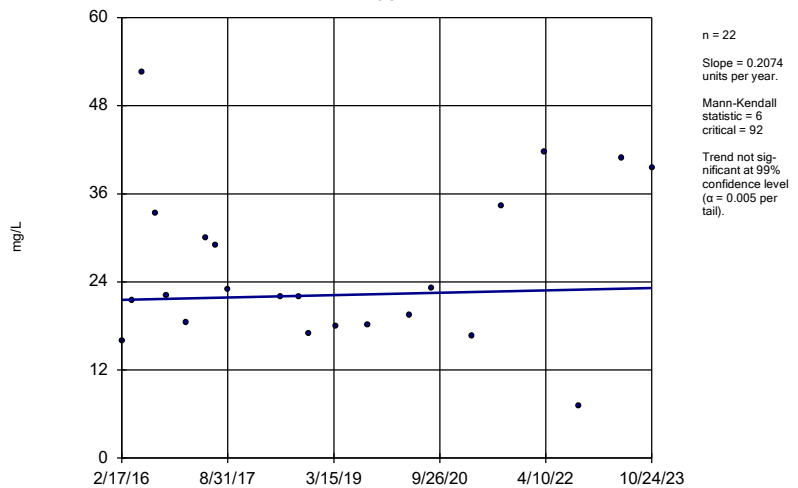
GC-AP-MW-9



Constituent: Calcium Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

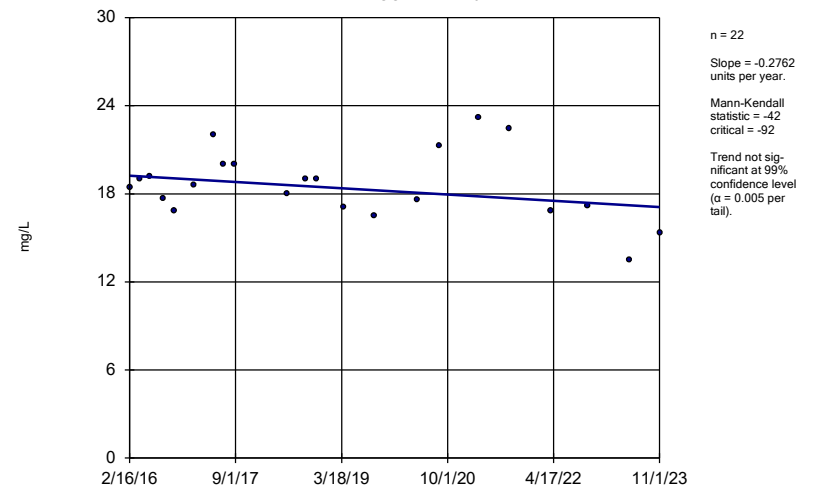
GC-AP-MW-1



Constituent: Chloride Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

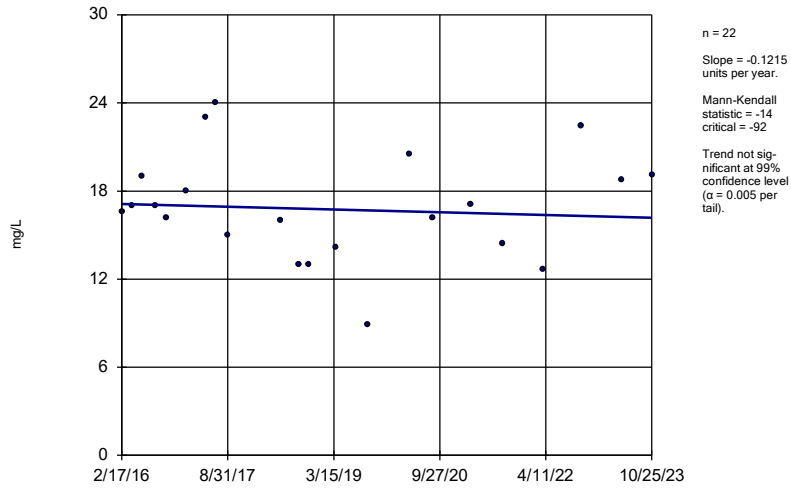
GC-AP-MW-10



Constituent: Chloride Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

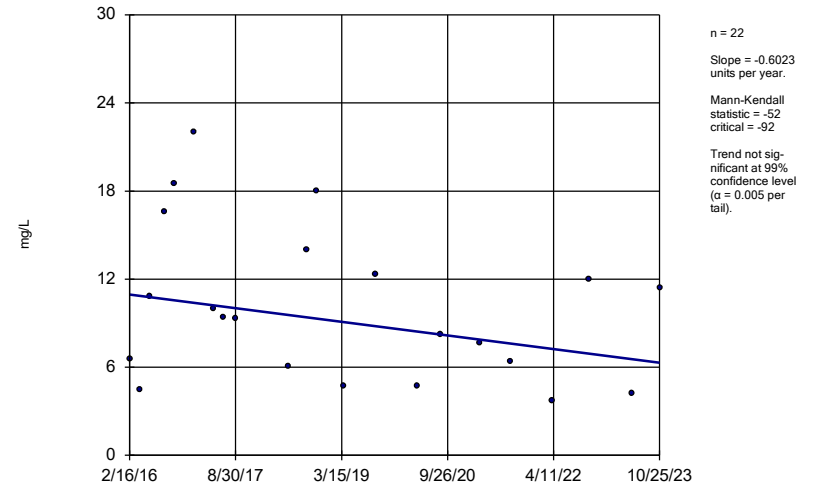
GC-AP-MW-11



Constituent: Chloride Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

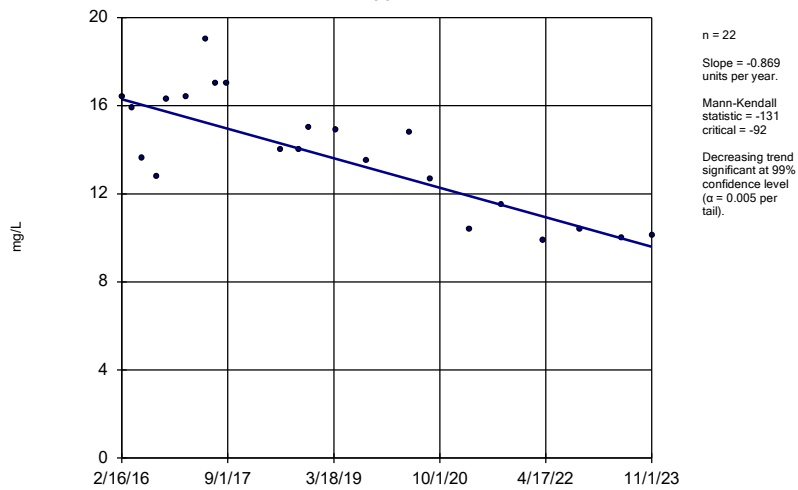
GC-AP-MW-13



Constituent: Chloride Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

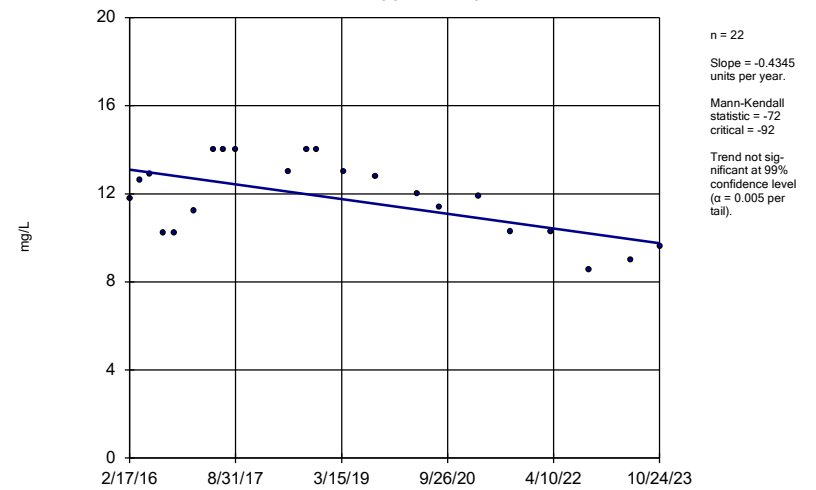
GC-AP-MW-14



Constituent: Chloride Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-15

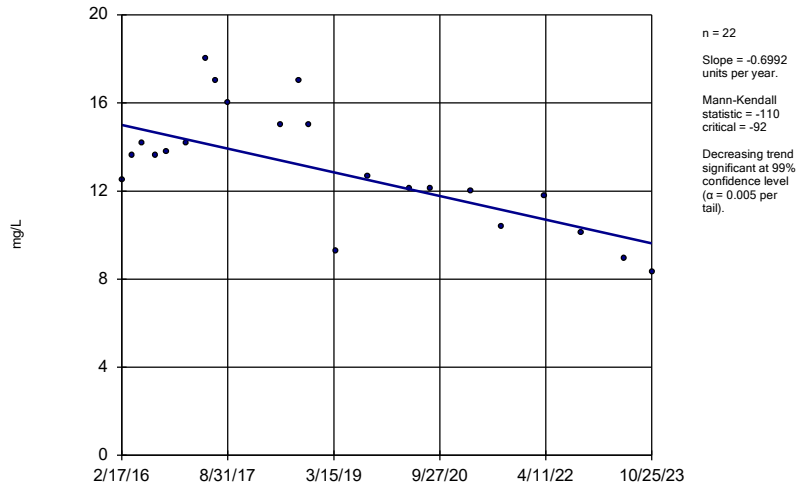


Constituent: Chloride Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP



### Sen's Slope Estimator

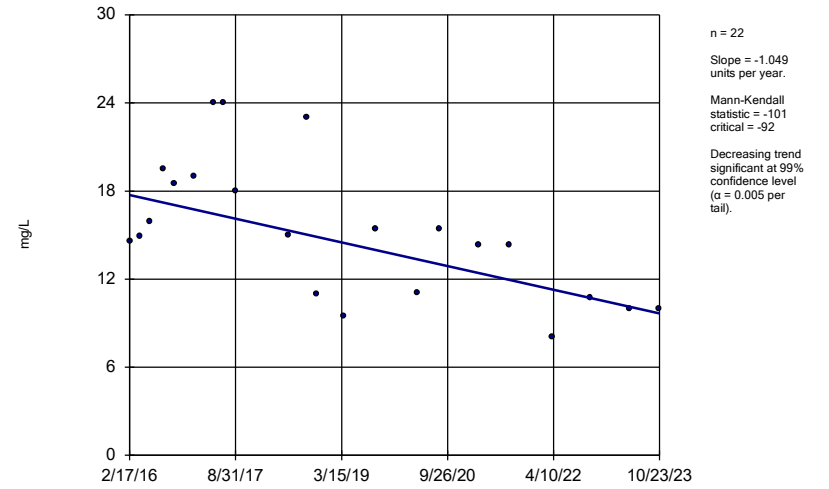
GC-AP-MW-16



Constituent: Chloride Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

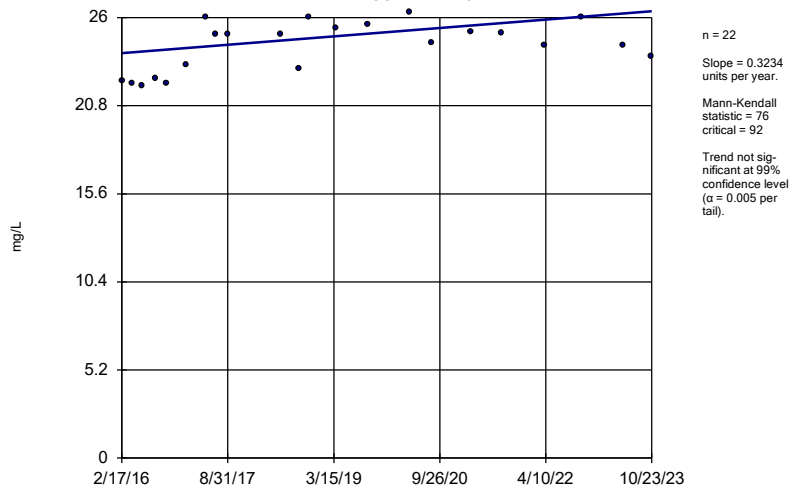
GC-AP-MW-17



Constituent: Chloride Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

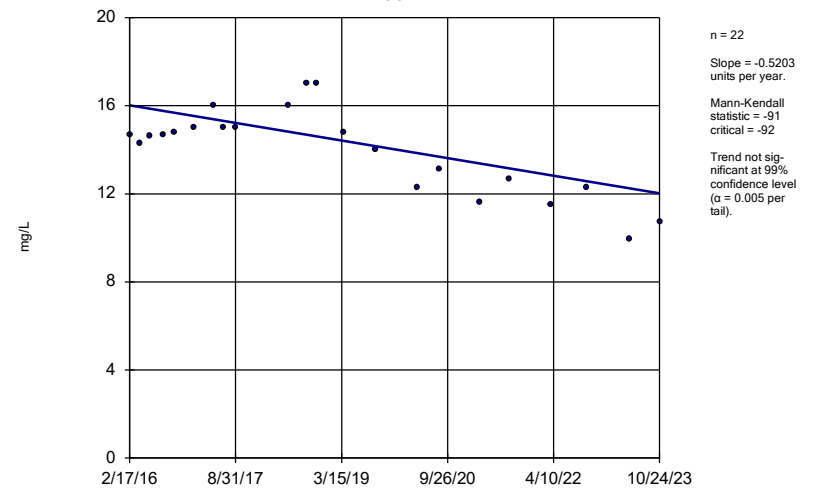
GC-AP-MW-18



Constituent: Chloride Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

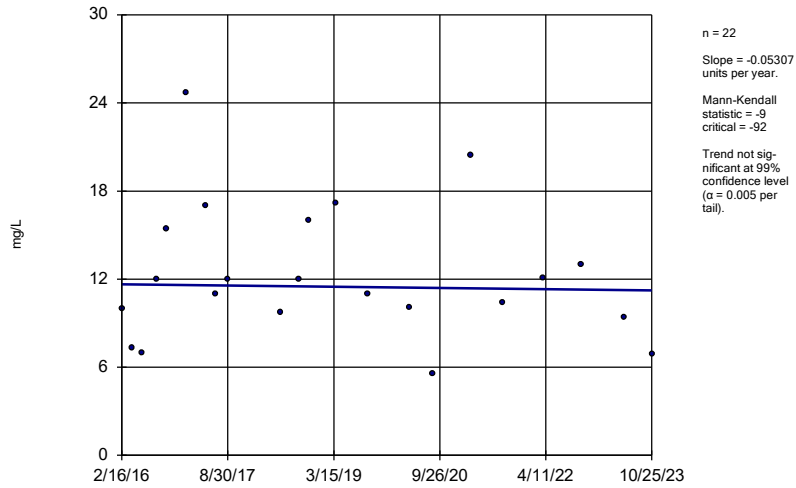
GC-AP-MW-2



Constituent: Chloride Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

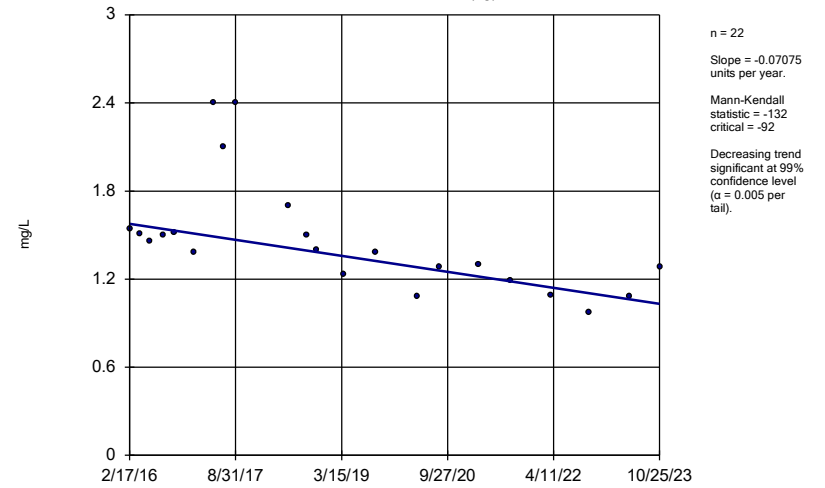
GC-AP-MW-21



Constituent: Chloride Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

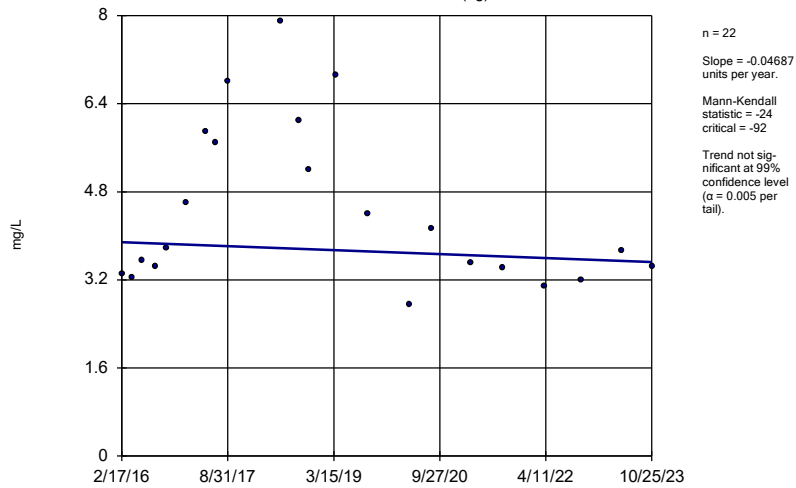
GC-AP-MW-23 (bg)



Constituent: Chloride Analysis Run 1/8/2024 11:46 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

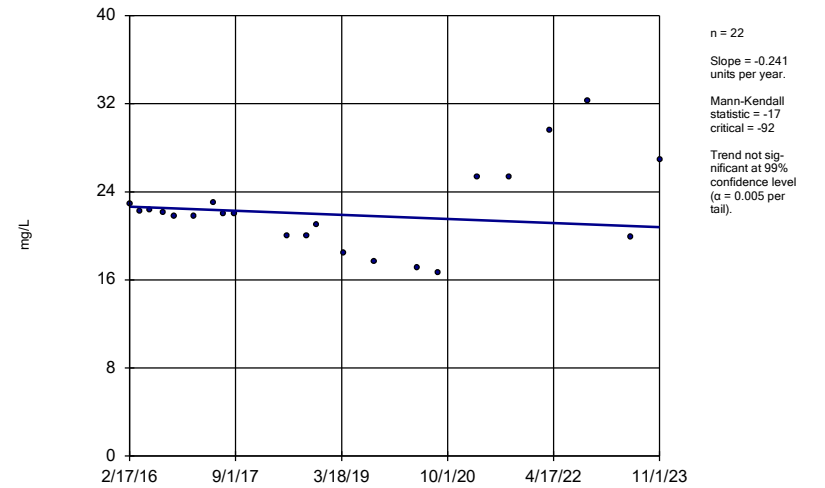
GC-AP-MW-24 (bg)



Constituent: Chloride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

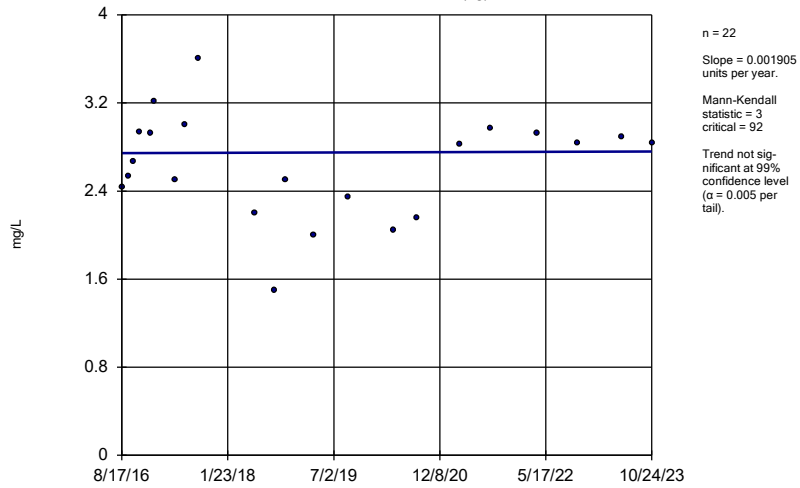
GC-AP-MW-25



Constituent: Chloride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-26 (bg)

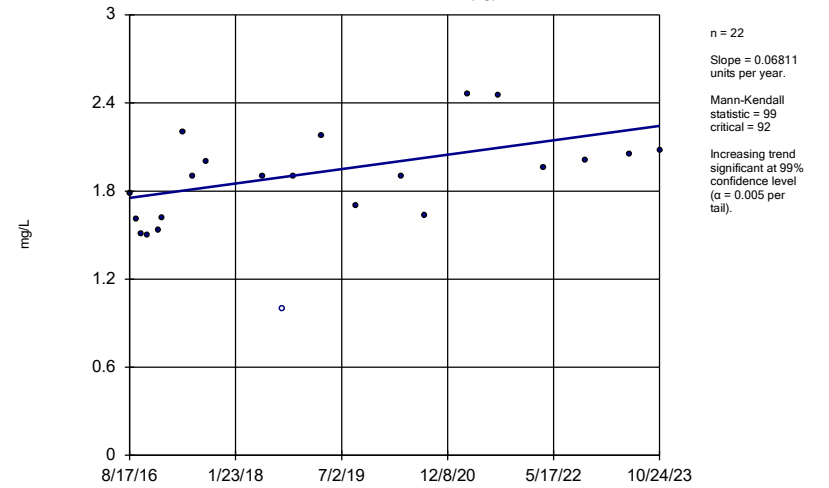


Constituent: Chloride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

GC-AP-MW-27 (bg)

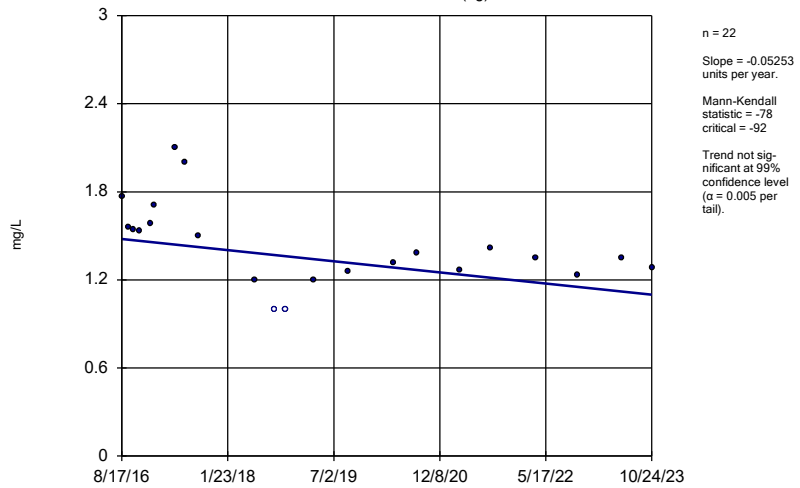


Constituent: Chloride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

GC-AP-MW-28 (bg)

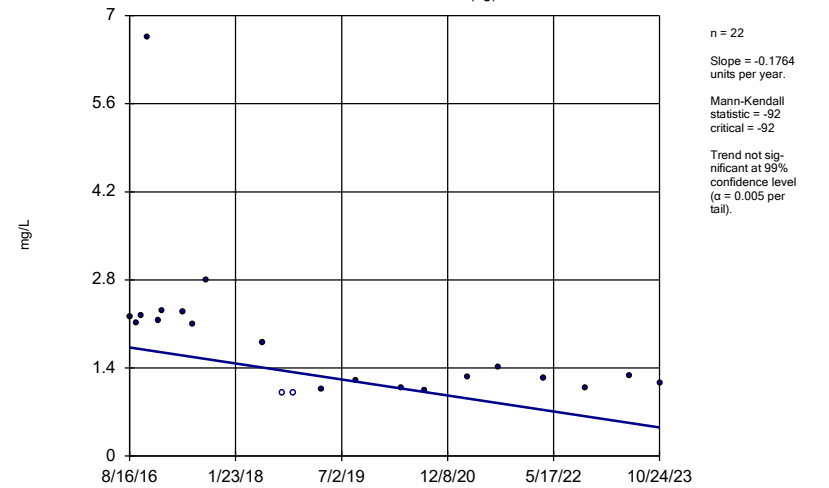


Constituent: Chloride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

GC-AP-MW-29 (bg)

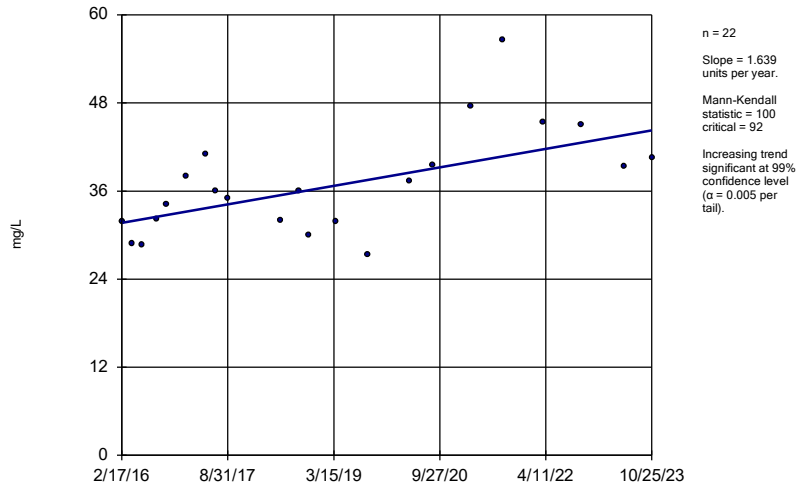


Constituent: Chloride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP



### Sen's Slope Estimator

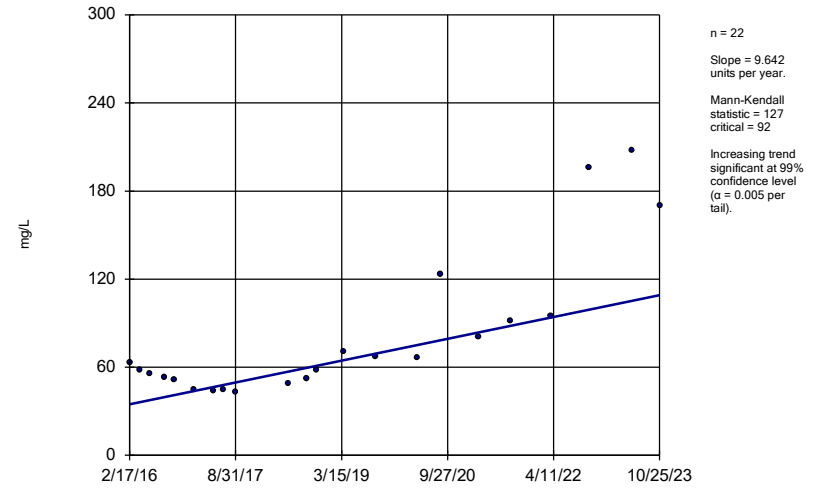
GC-AP-MW-6



Constituent: Chloride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

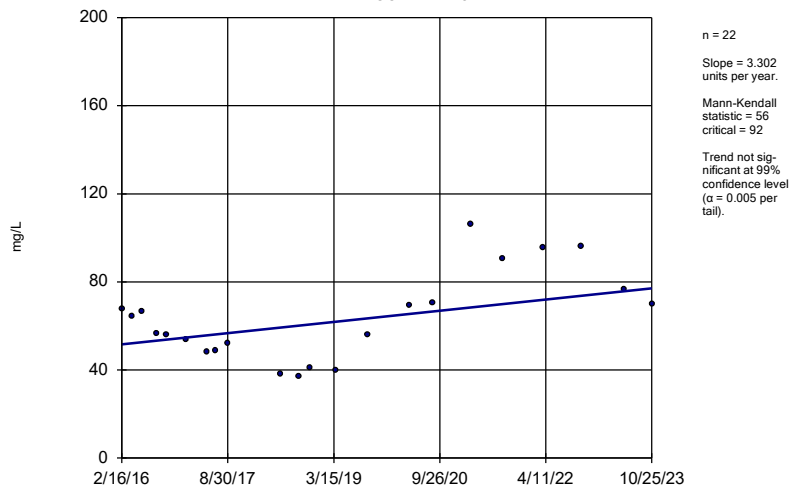
GC-AP-MW-7



Constituent: Chloride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

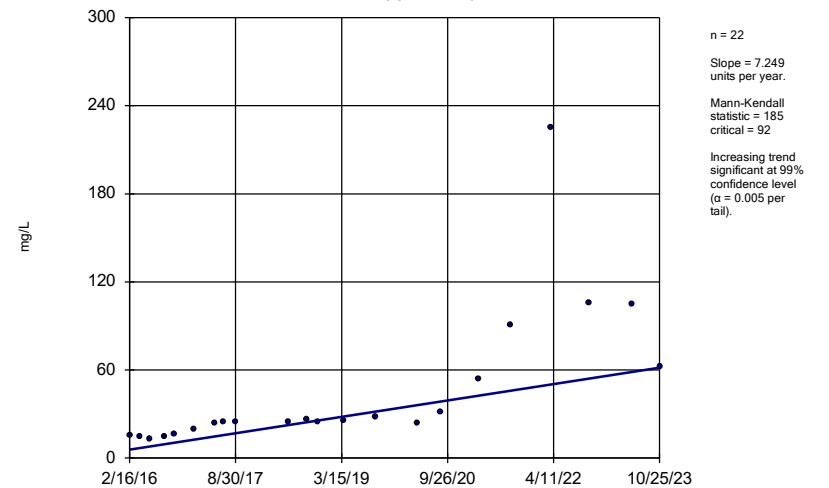
GC-AP-MW-8



Constituent: Chloride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

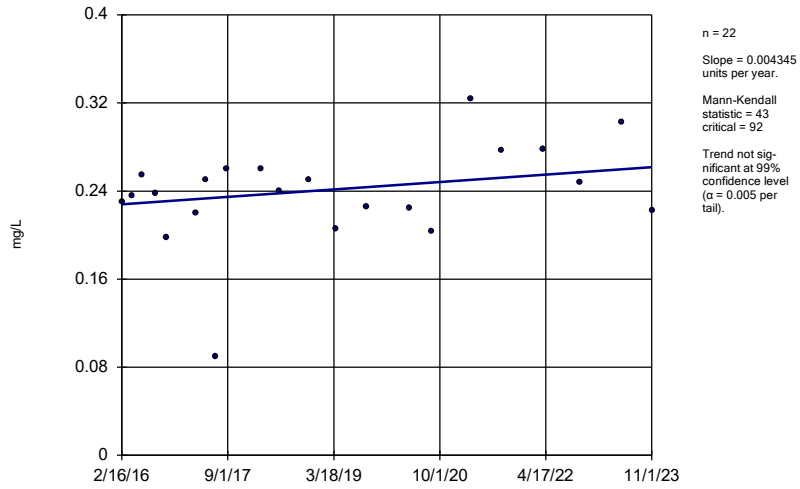
GC-AP-MW-9



Constituent: Chloride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

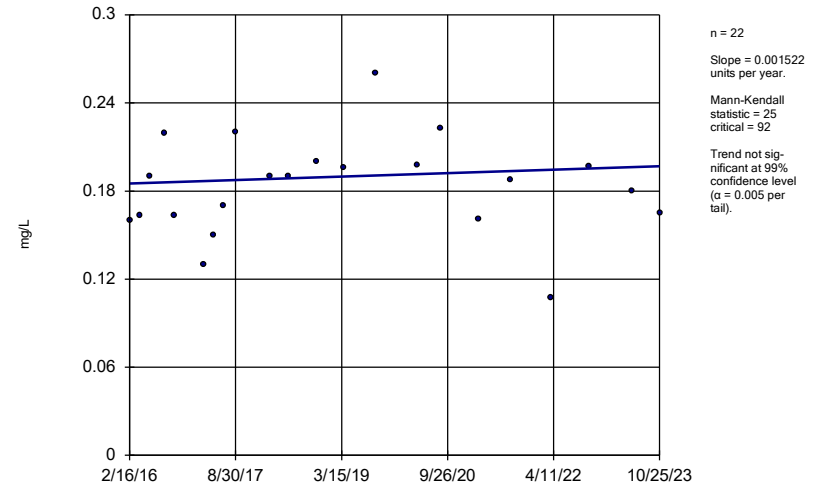
GC-AP-MW-10



Constituent: Fluoride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

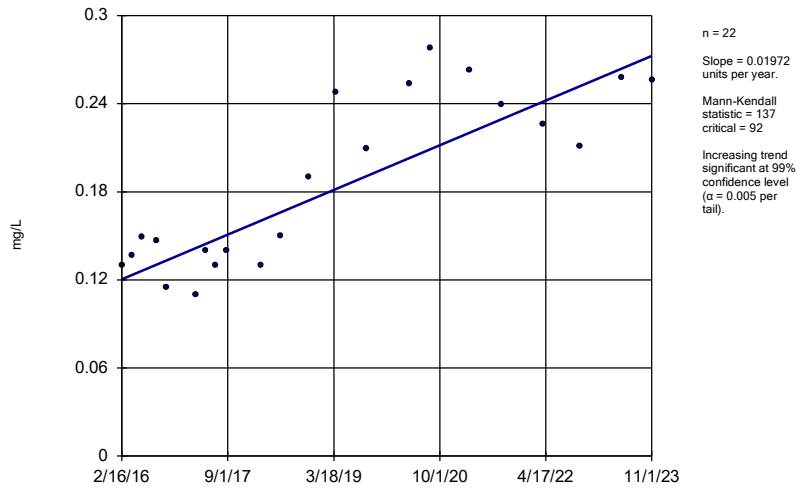
GC-AP-MW-12



Constituent: Fluoride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

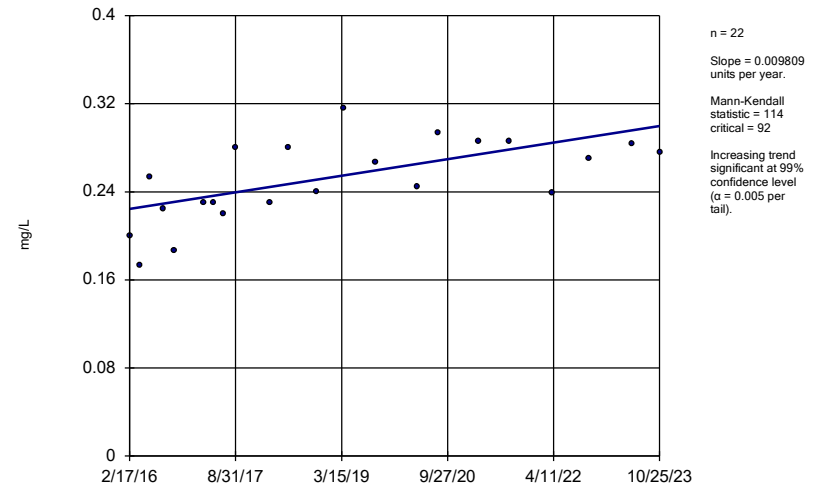
GC-AP-MW-14



Constituent: Fluoride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

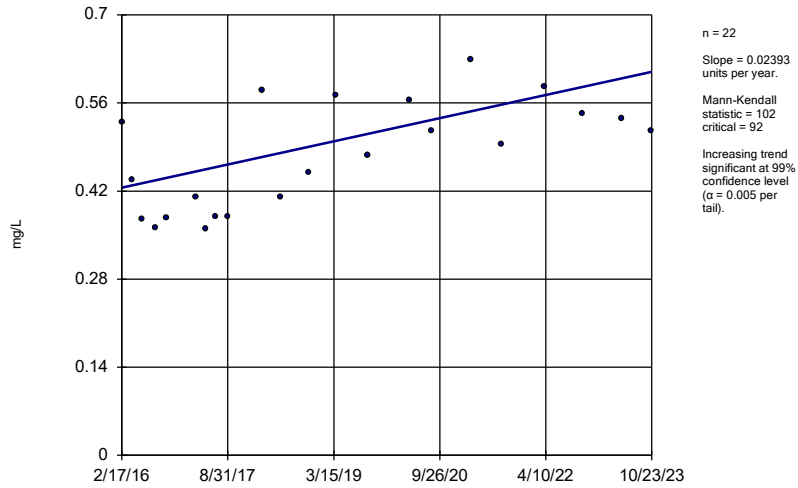
GC-AP-MW-16



Constituent: Fluoride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

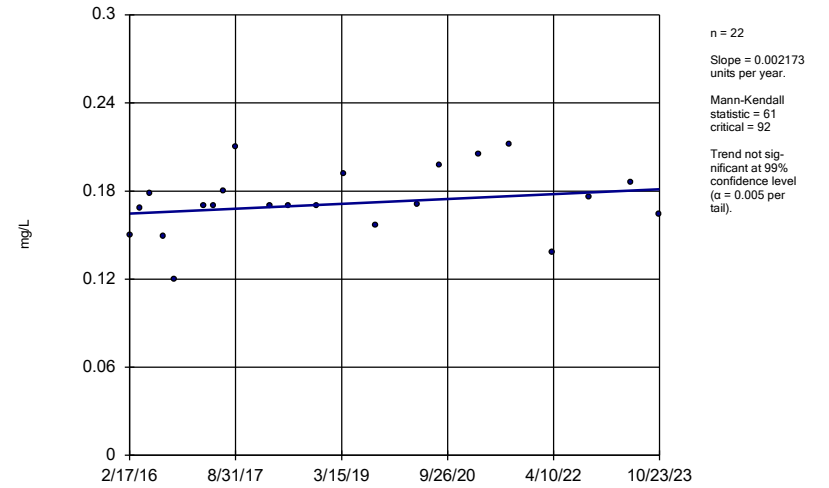
GC-AP-MW-17



Constituent: Fluoride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

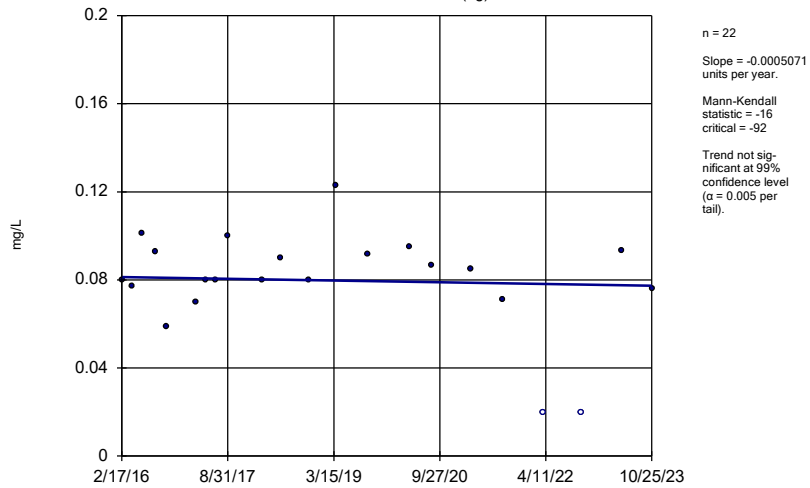
GC-AP-MW-18



Constituent: Fluoride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

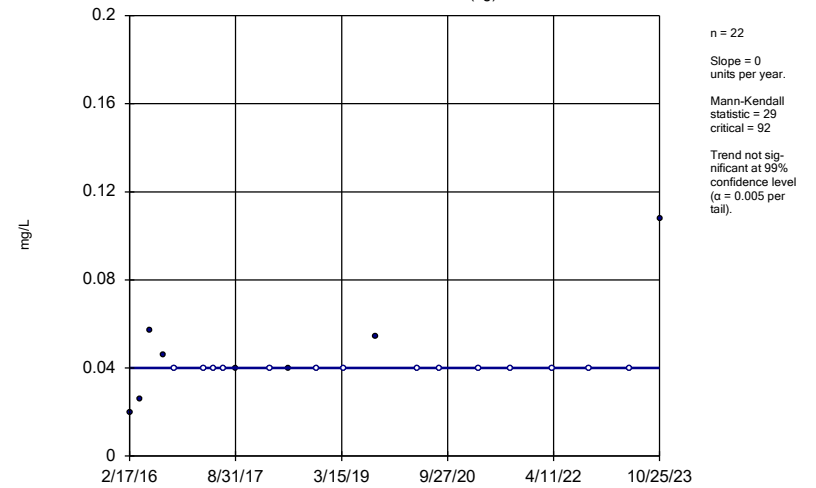
GC-AP-MW-23 (bg)



Constituent: Fluoride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

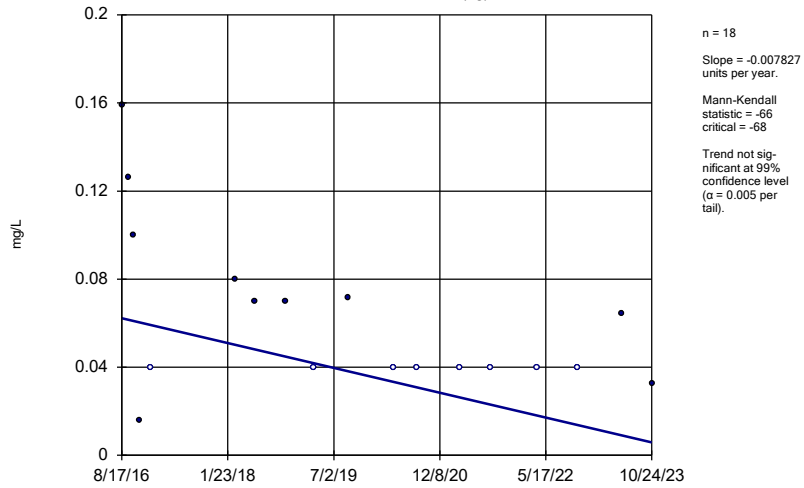
GC-AP-MW-24 (bg)



Constituent: Fluoride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

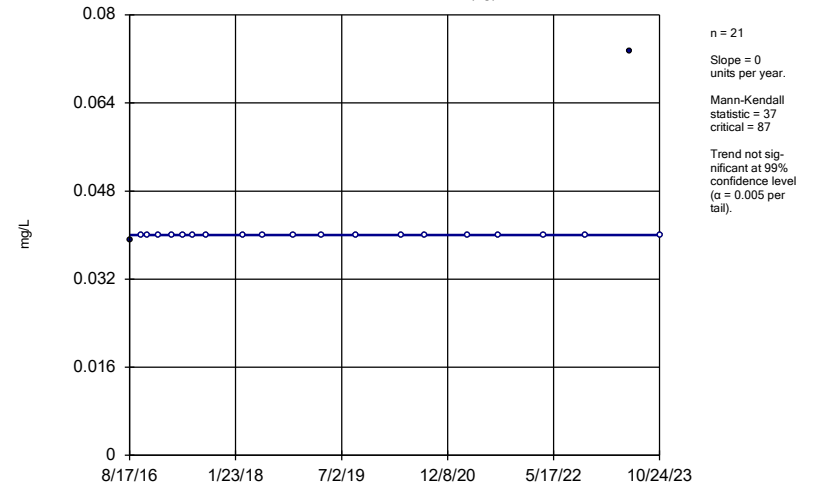
GC-AP-MW-26 (bg)



Constituent: Fluoride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

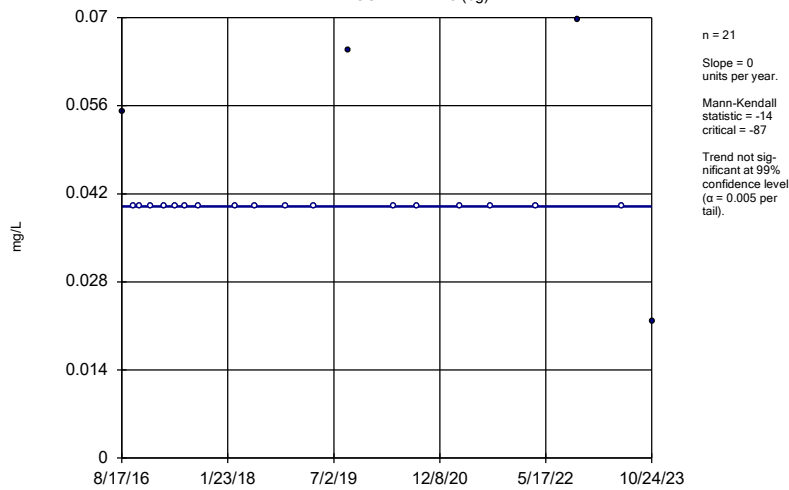
GC-AP-MW-27 (bg)



Constituent: Fluoride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

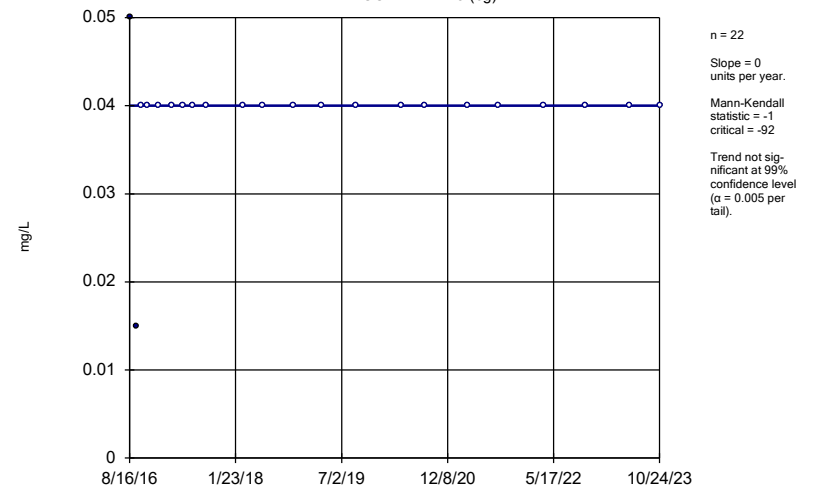
GC-AP-MW-28 (bg)



Constituent: Fluoride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-29 (bg)

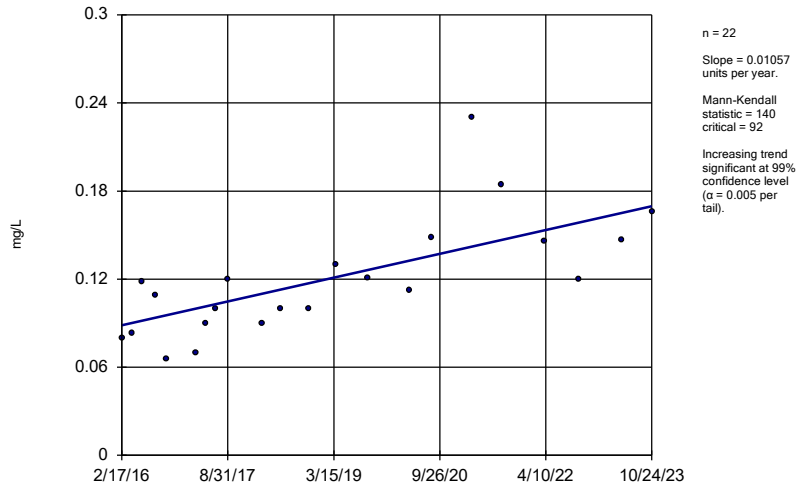


Constituent: Fluoride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP



### Sen's Slope Estimator

GC-AP-MW-3

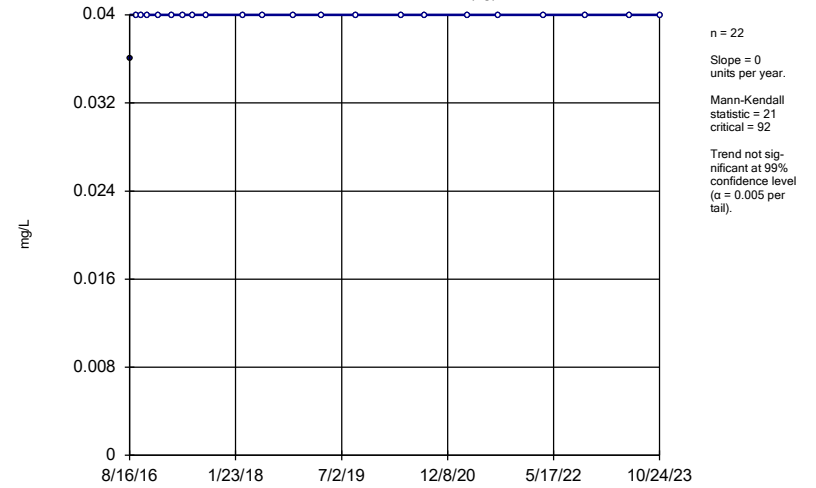


Constituent: Fluoride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

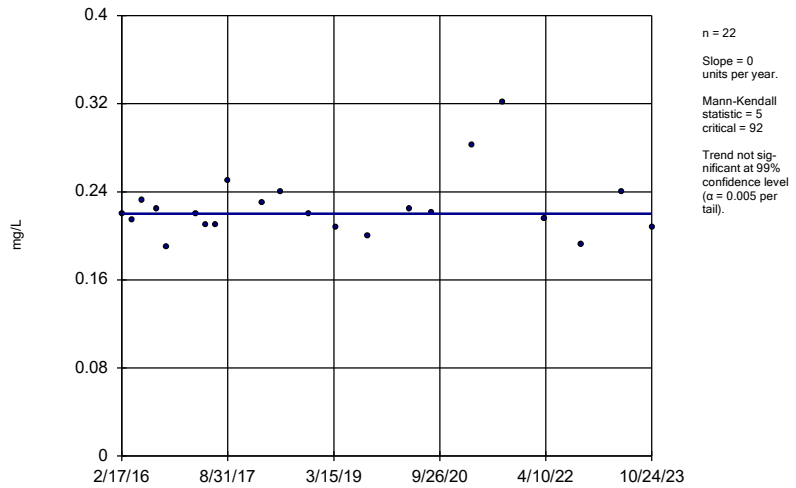
GC-AP-MW-30 (bg)



Constituent: Fluoride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

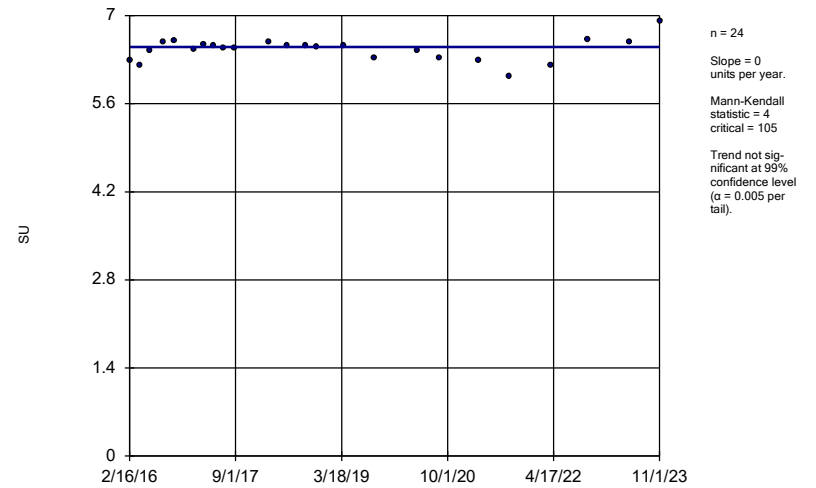
GC-AP-MW-5



Constituent: Fluoride Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

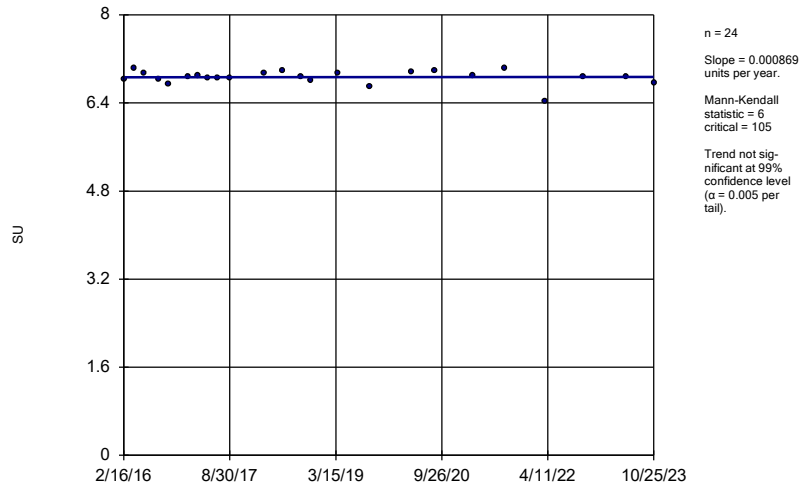
GC-AP-MW-10



Constituent: pH Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

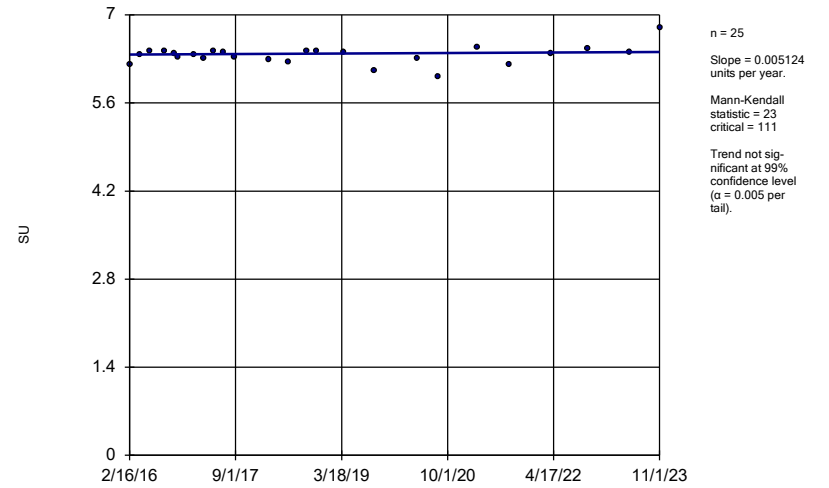
GC-AP-MW-12



Constituent: pH Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

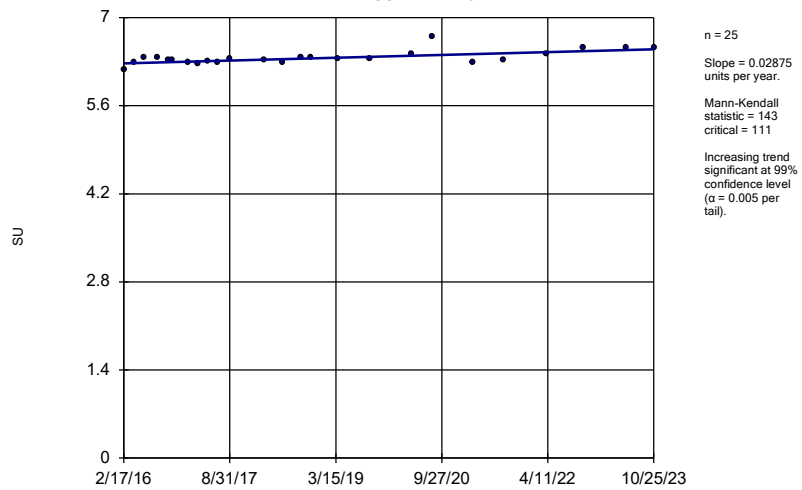
GC-AP-MW-14



Constituent: pH Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

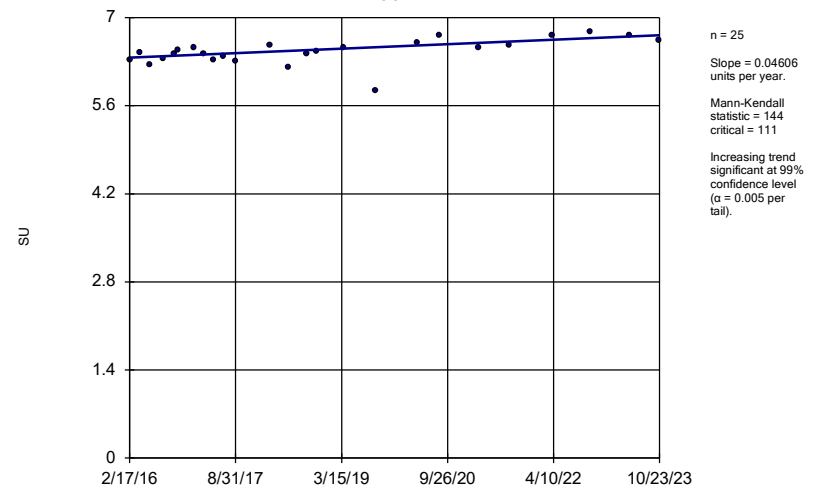
GC-AP-MW-16



Constituent: pH Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

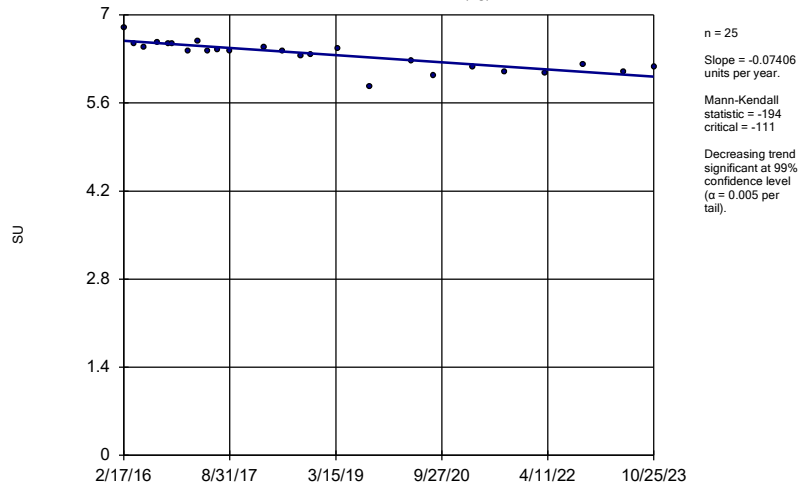
GC-AP-MW-17



Constituent: pH Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

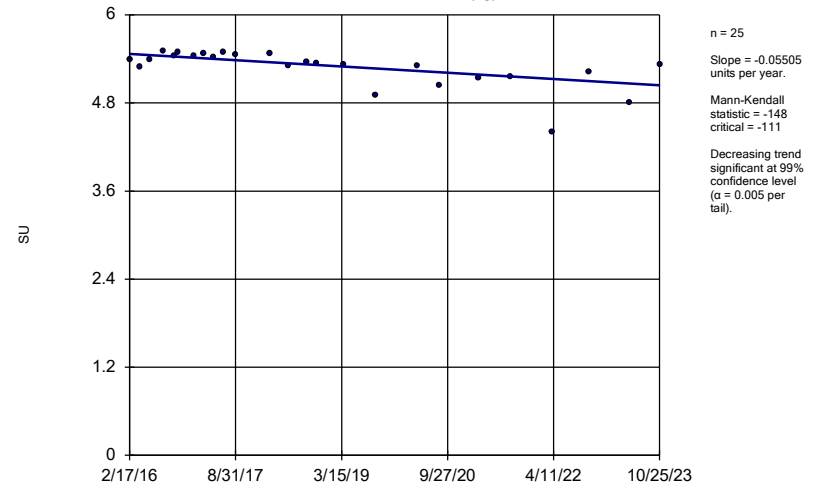
GC-AP-MW-23 (bg)



Constituent: pH Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

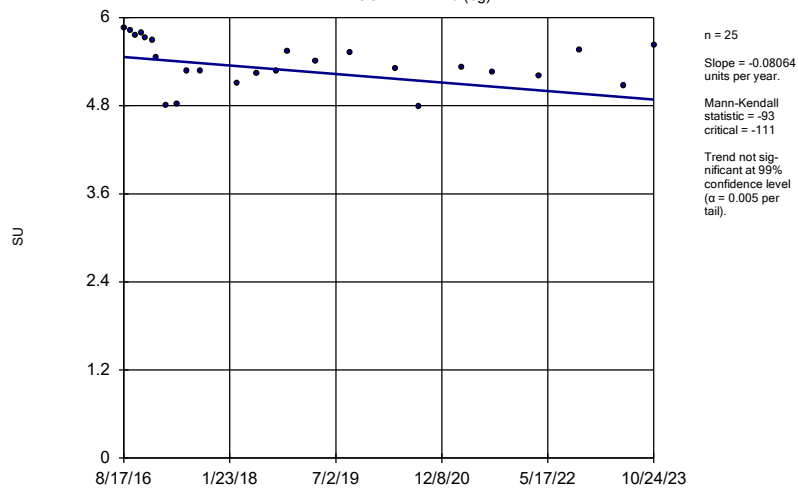
GC-AP-MW-24 (bg)



Constituent: pH Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

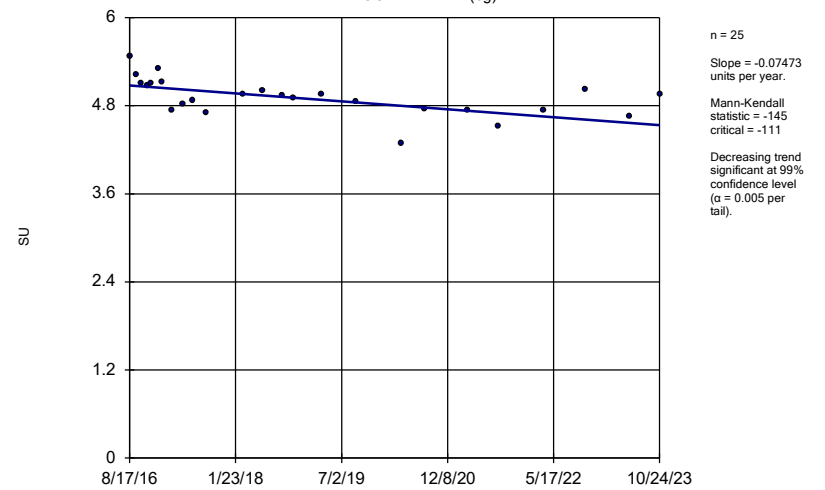
GC-AP-MW-26 (bg)



Constituent: pH Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

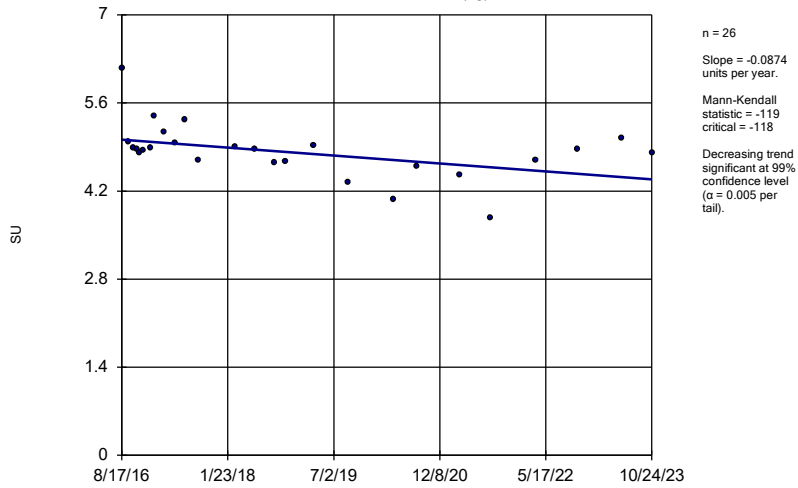
GC-AP-MW-27 (bg)



Constituent: pH Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

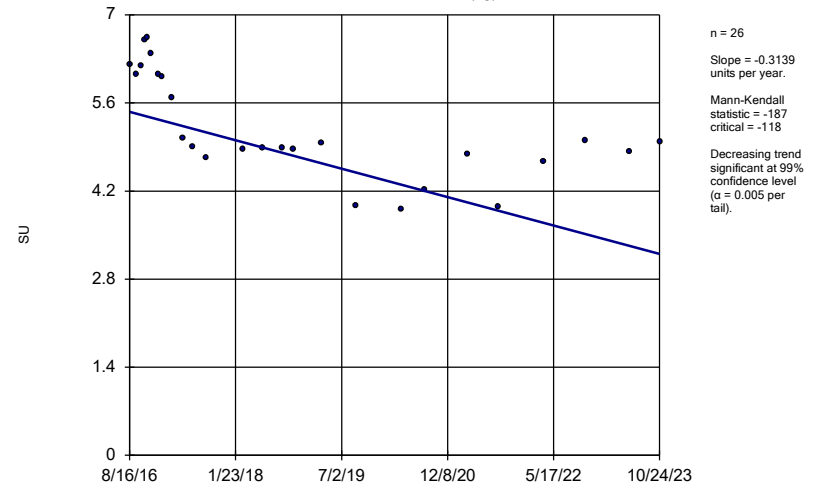
GC-AP-MW-28 (bg)



Constituent: pH Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

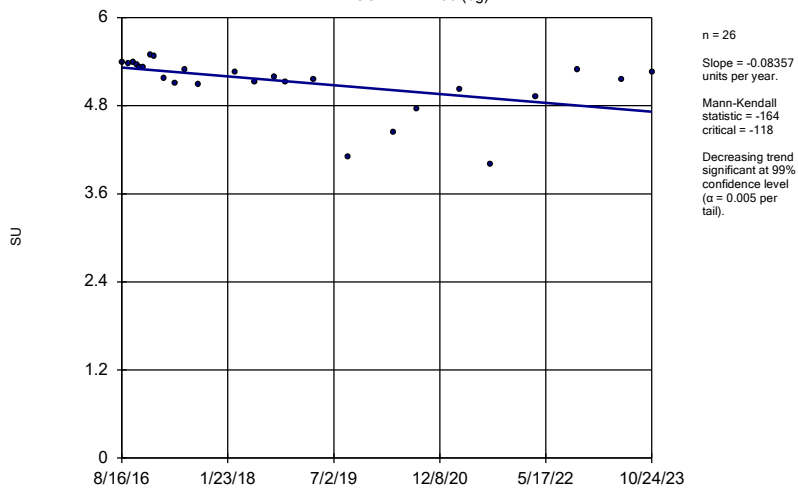
GC-AP-MW-29 (bg)



Constituent: pH Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

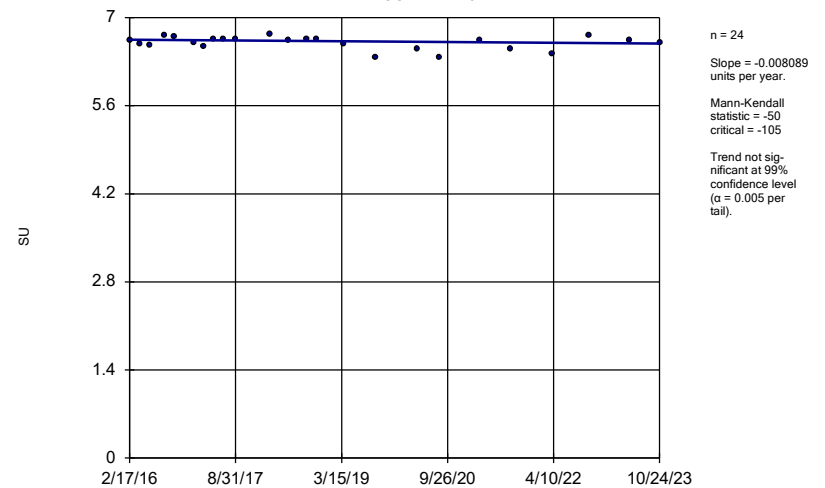
GC-AP-MW-30 (bg)



Constituent: pH Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

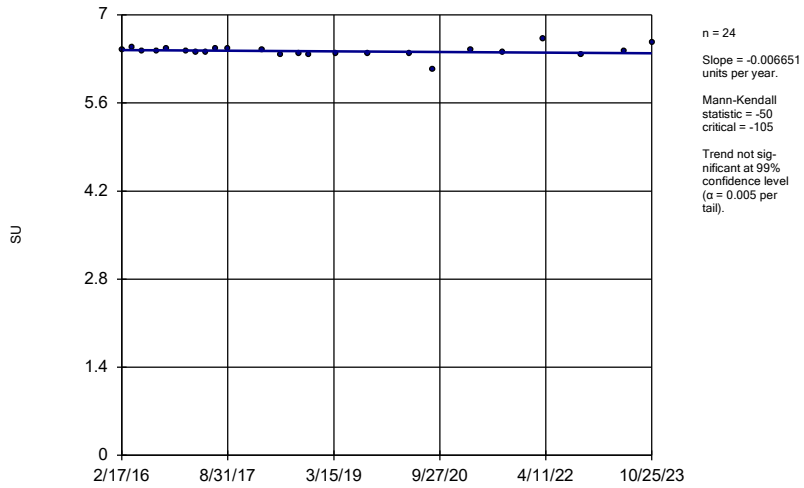
GC-AP-MW-5



Constituent: pH Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

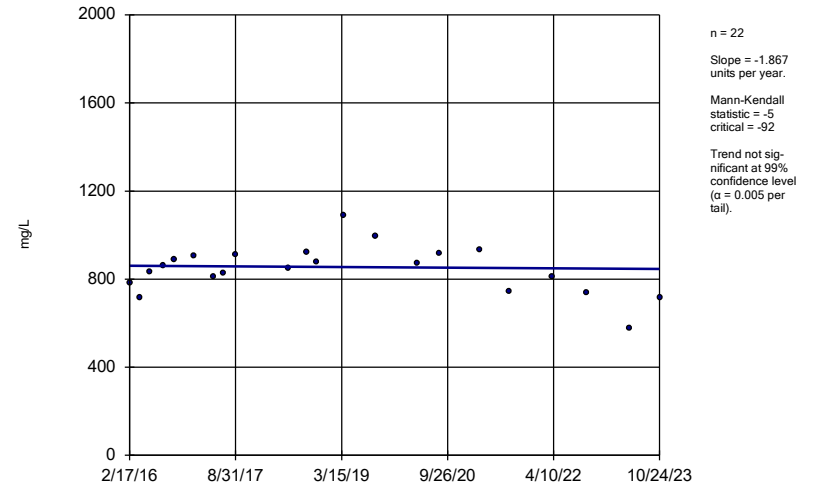
GC-AP-MW-7



Constituent: pH Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

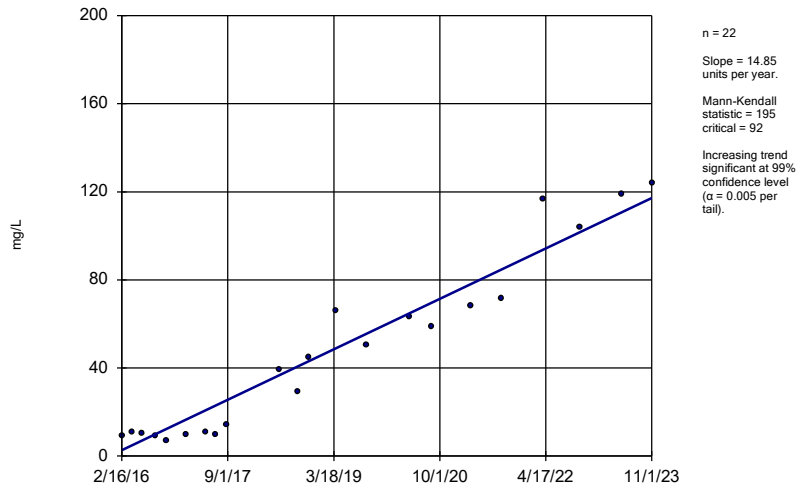
GC-AP-MW-1



Constituent: Sulfate Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

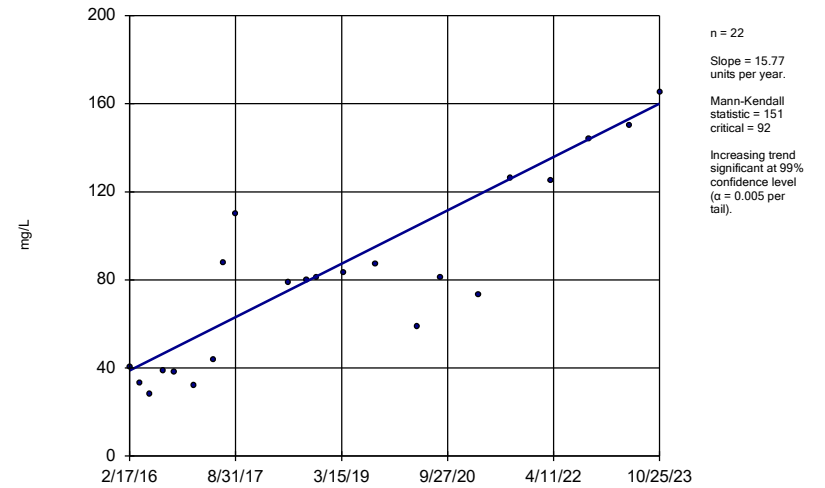
GC-AP-MW-10



Constituent: Sulfate Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

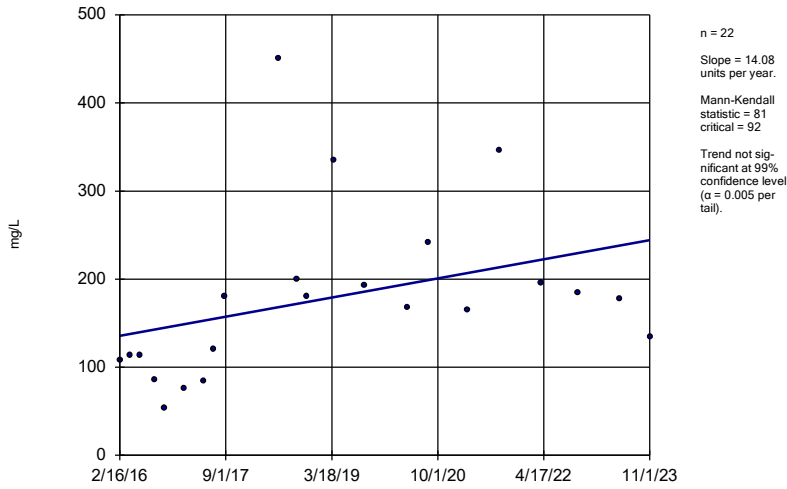
GC-AP-MW-11



Constituent: Sulfate Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

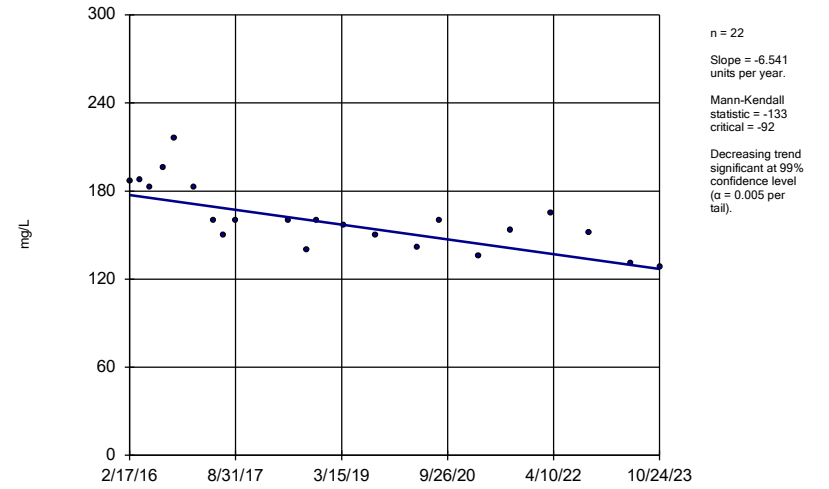
GC-AP-MW-14



Constituent: Sulfate Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

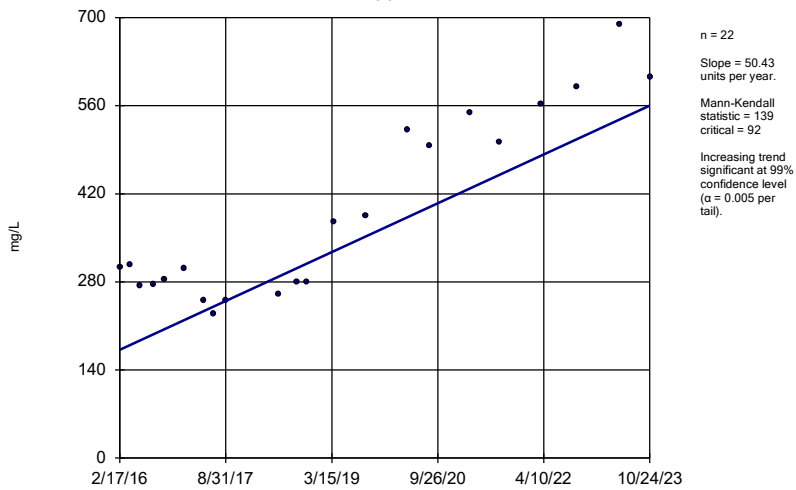
GC-AP-MW-15



Constituent: Sulfate Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

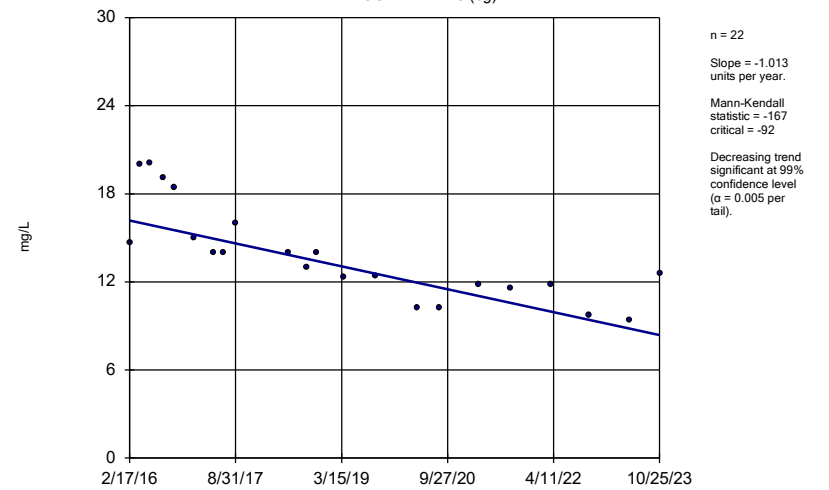
GC-AP-MW-2



Constituent: Sulfate Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

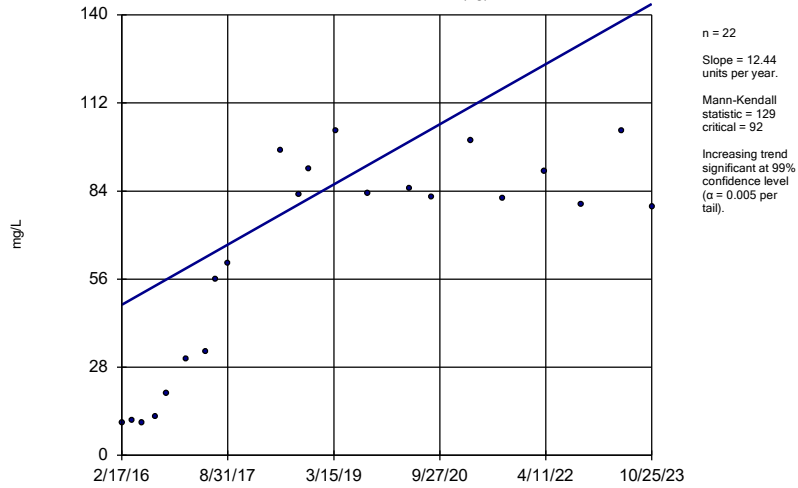
GC-AP-MW-23 (bg)



Constituent: Sulfate Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

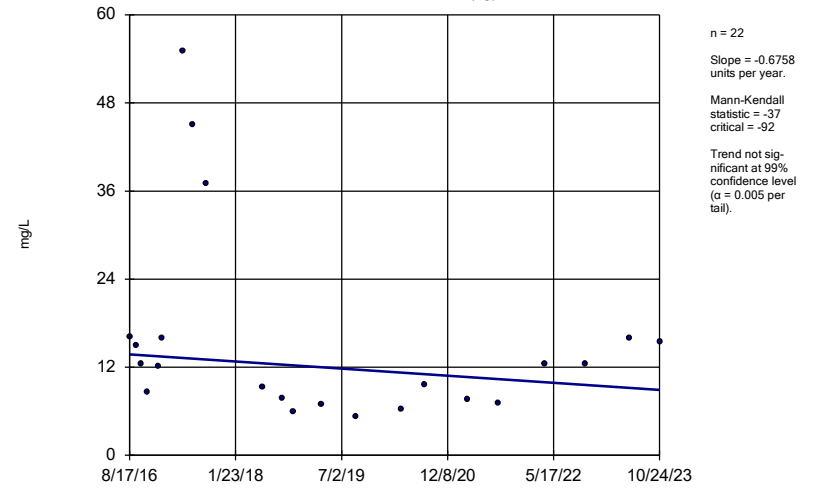
GC-AP-MW-24 (bg)



Constituent: Sulfate Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

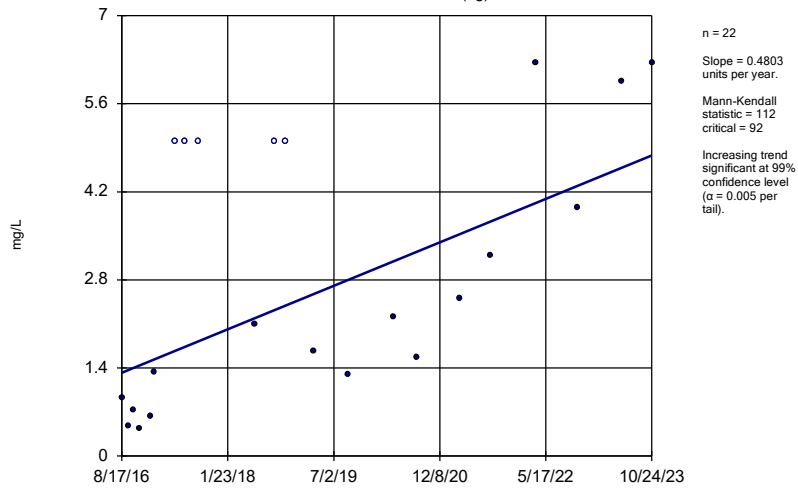
GC-AP-MW-26 (bg)



Constituent: Sulfate Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

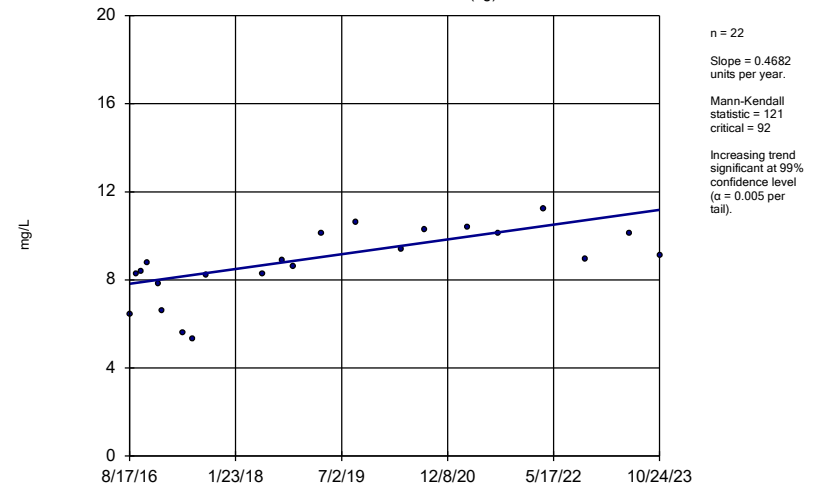
GC-AP-MW-27 (bg)



Constituent: Sulfate Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

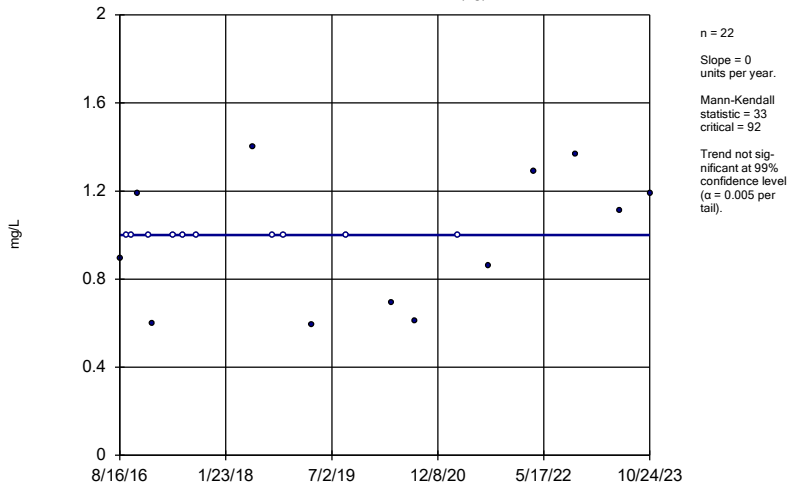
GC-AP-MW-28 (bg)



Constituent: Sulfate Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

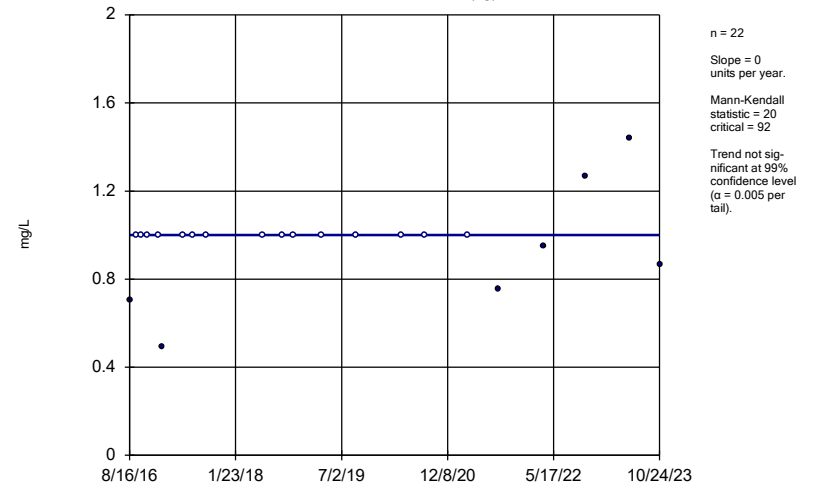
GC-AP-MW-29 (bg)



Constituent: Sulfate Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

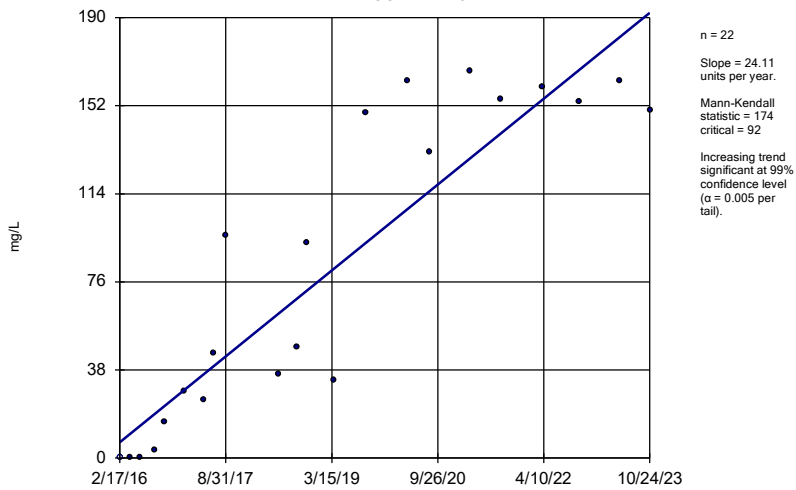
GC-AP-MW-30 (bg)



Constituent: Sulfate Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

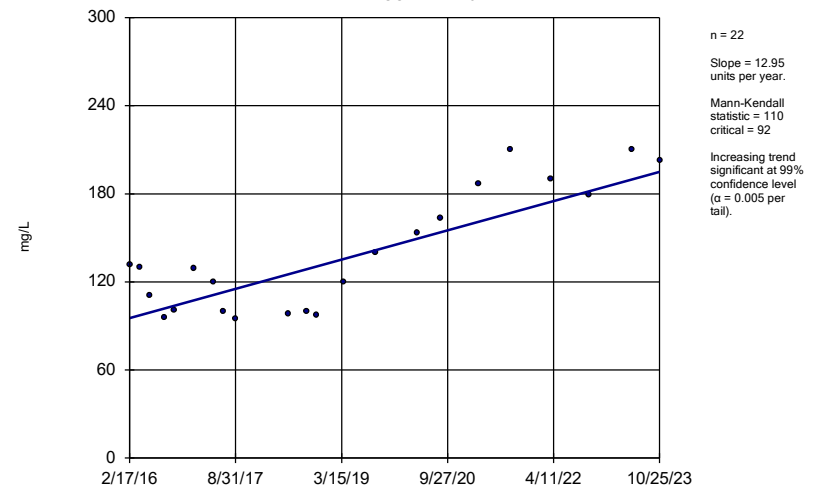
GC-AP-MW-5



Constituent: Sulfate Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-6

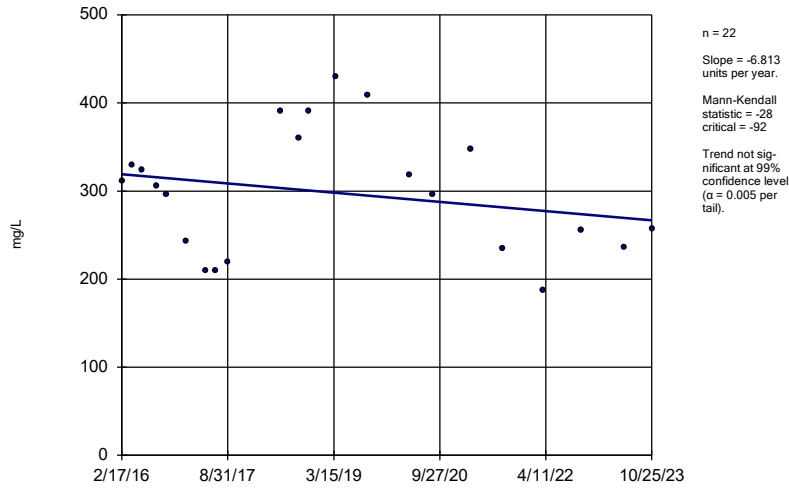


Constituent: Sulfate Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP



### Sen's Slope Estimator

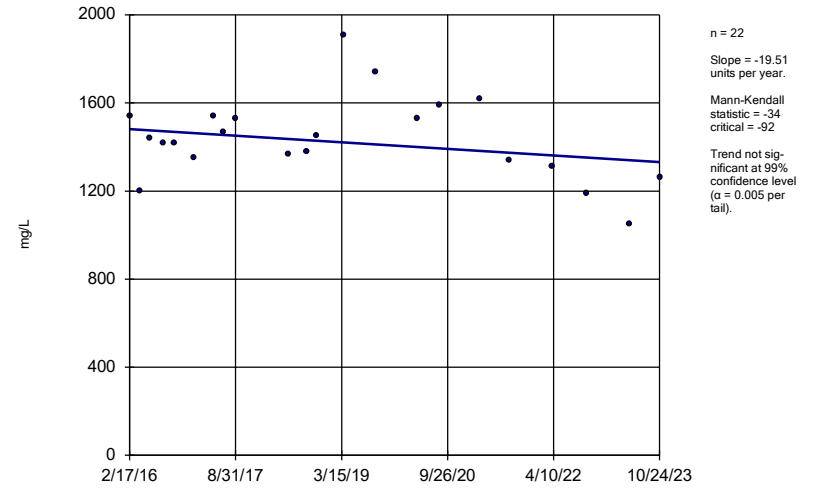
GC-AP-MW-7



Constituent: Sulfate Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

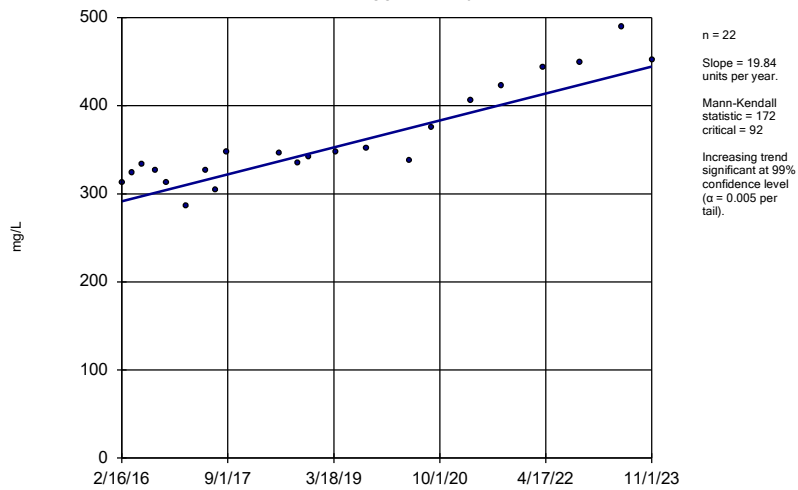
GC-AP-MW-1



Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

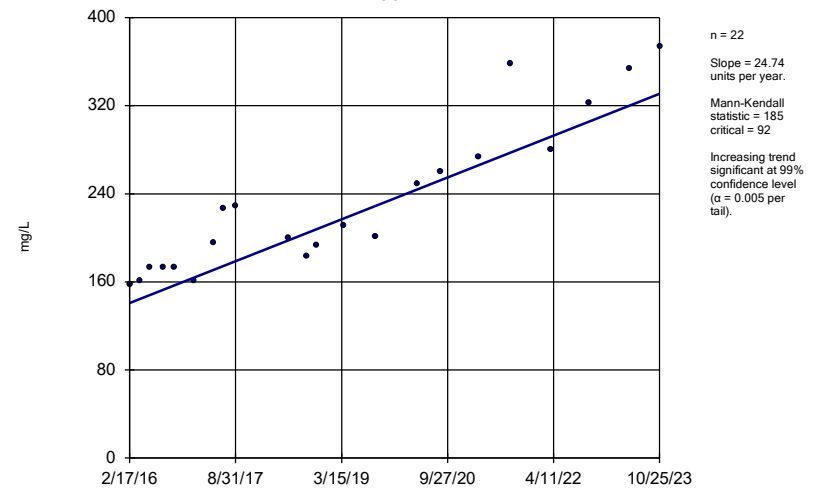
GC-AP-MW-10



Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

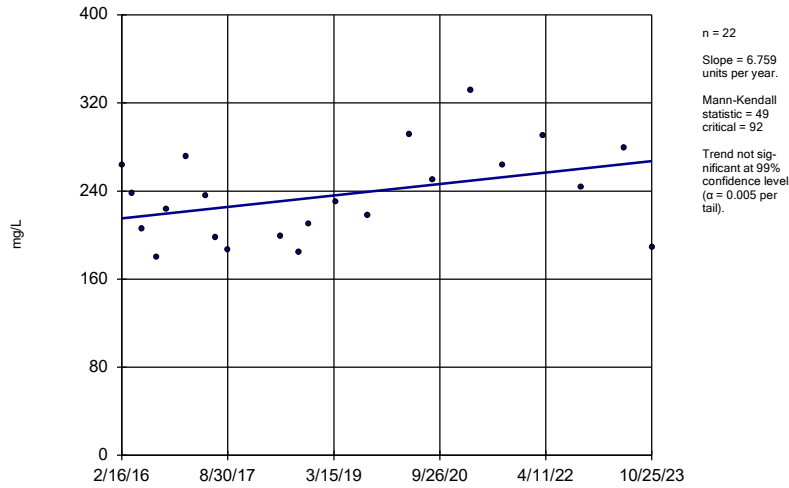
GC-AP-MW-11



Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

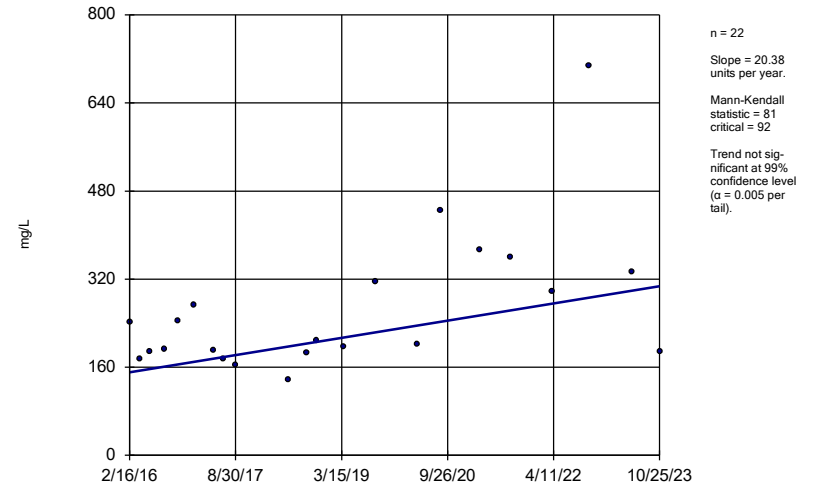
GC-AP-MW-12



Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

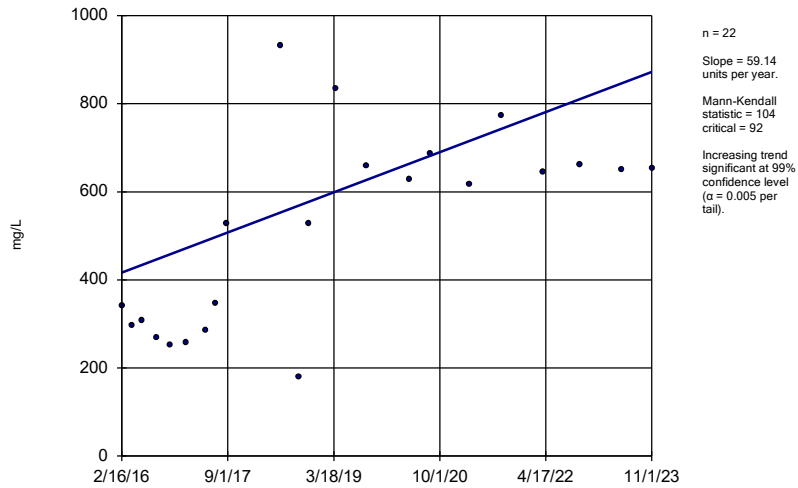
GC-AP-MW-13



Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

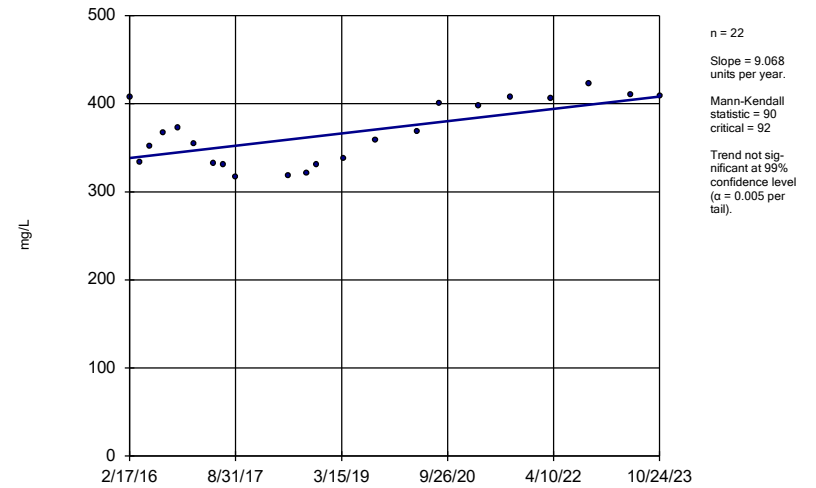
GC-AP-MW-14



Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

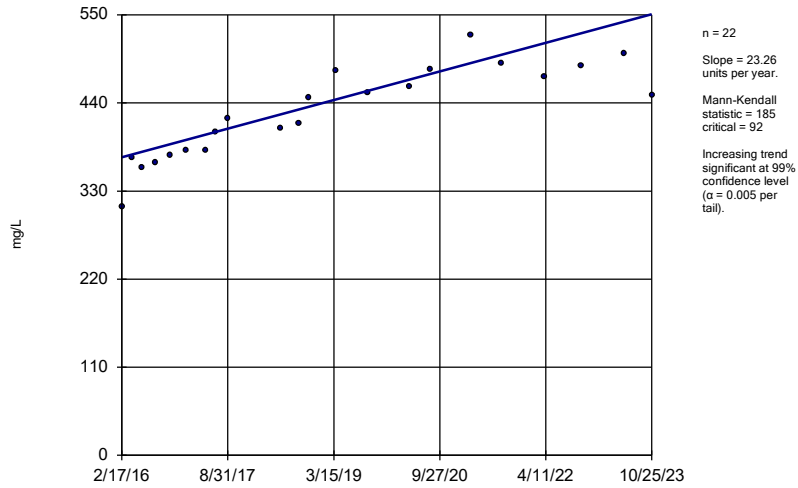
GC-AP-MW-15



Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

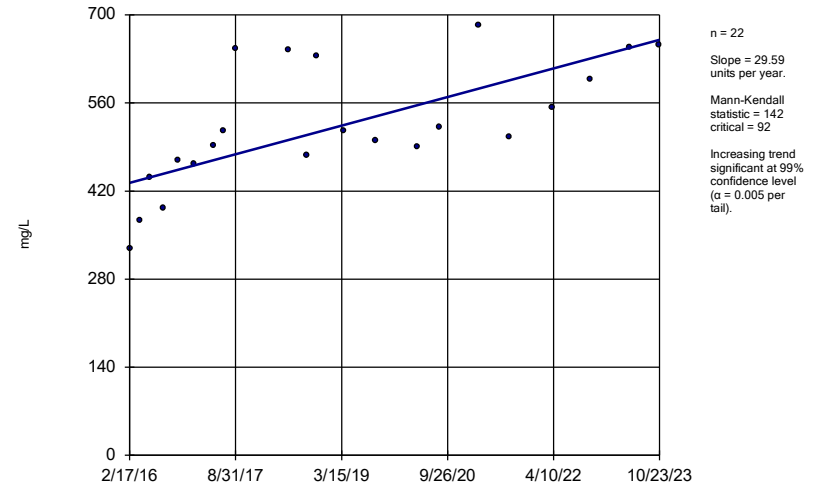
GC-AP-MW-16



Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

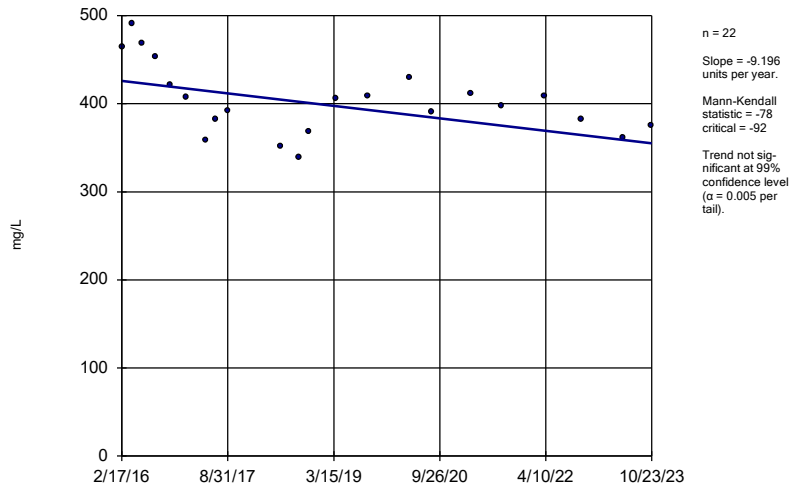
GC-AP-MW-17



Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

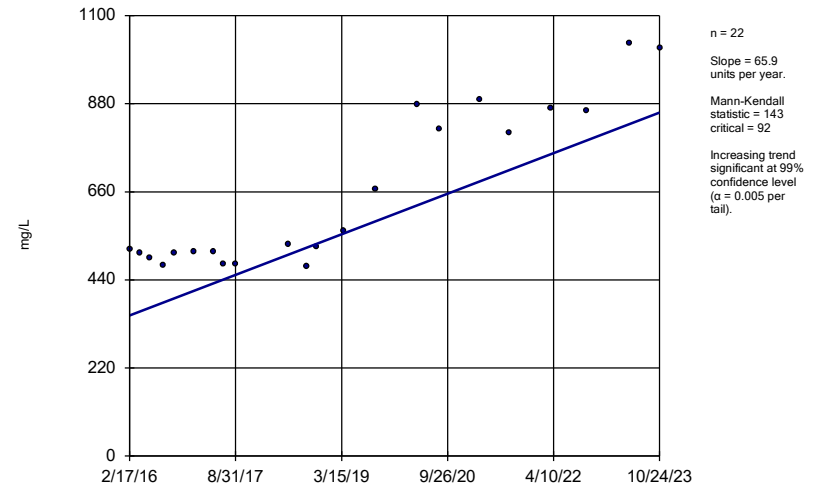
GC-AP-MW-18



Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

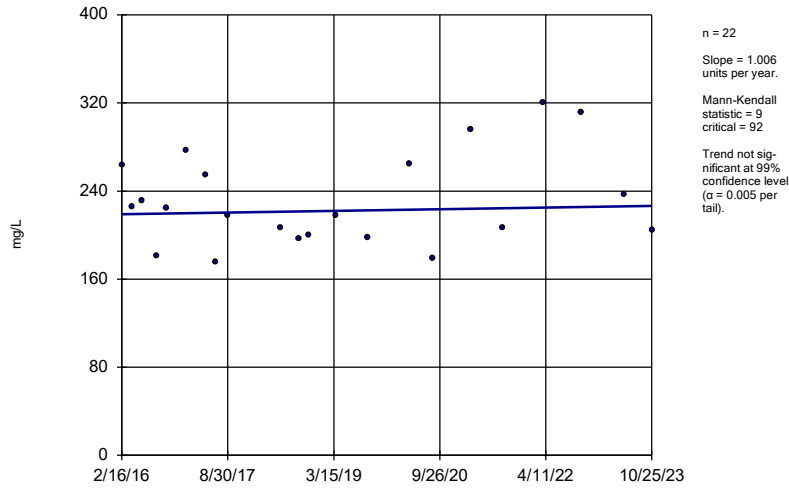
GC-AP-MW-2



Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

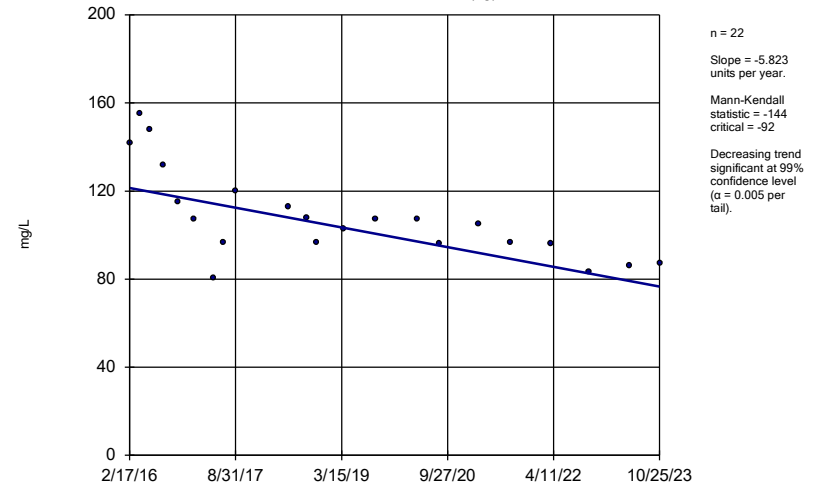
GC-AP-MW-21



Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

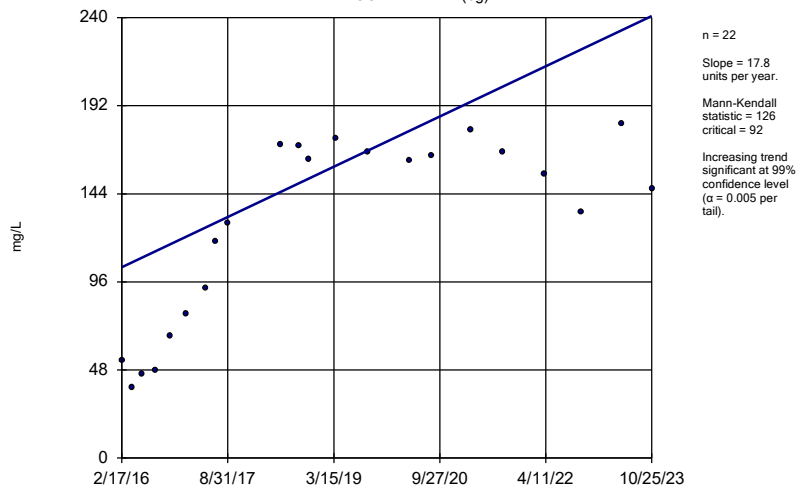
GC-AP-MW-23 (bg)



Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

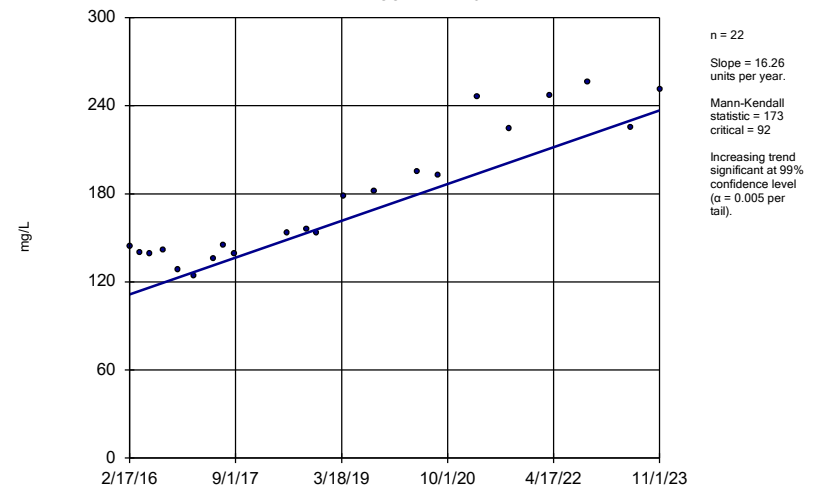
GC-AP-MW-24 (bg)



Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

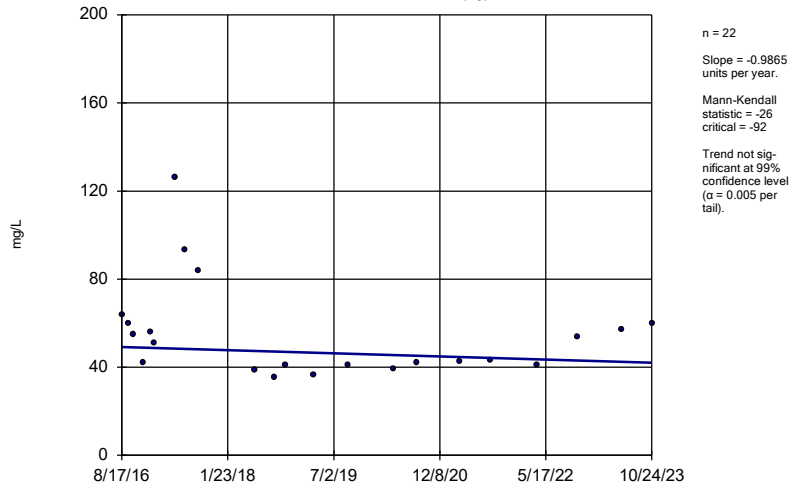
GC-AP-MW-25



Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-26 (bg)

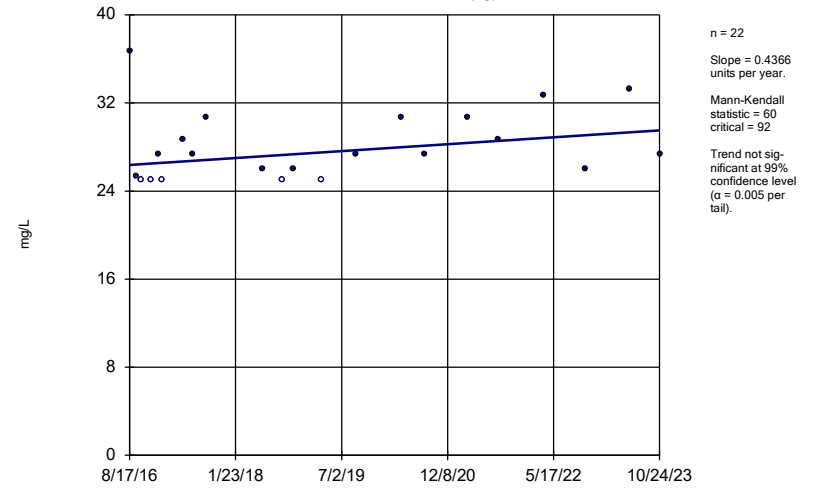


Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

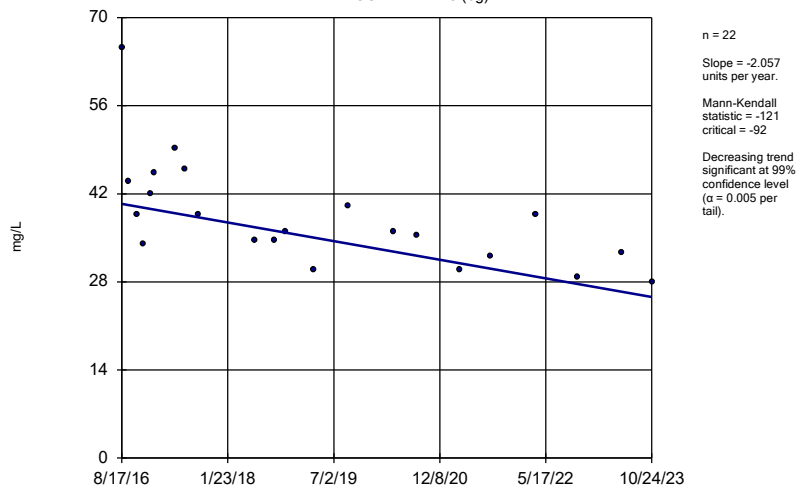
GC-AP-MW-27 (bg)



Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-28 (bg)

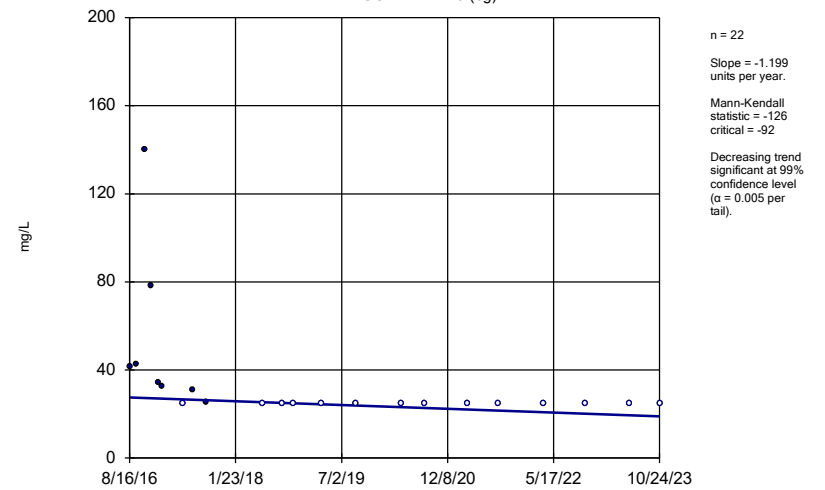


Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

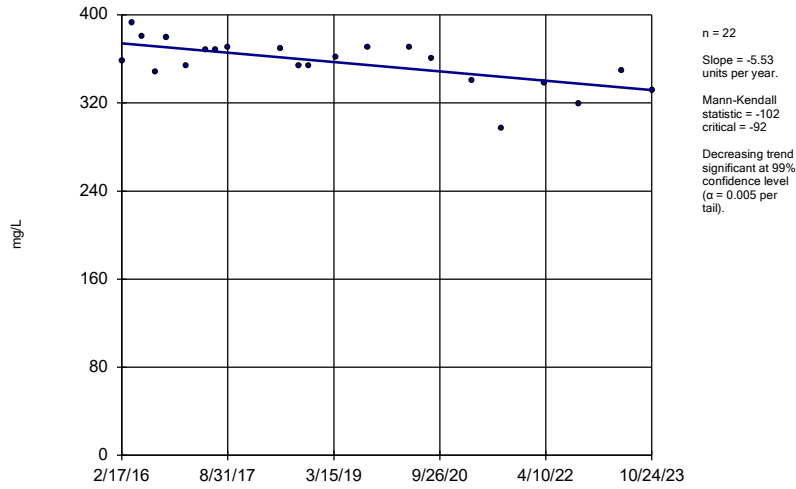
GC-AP-MW-29 (bg)



Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-3

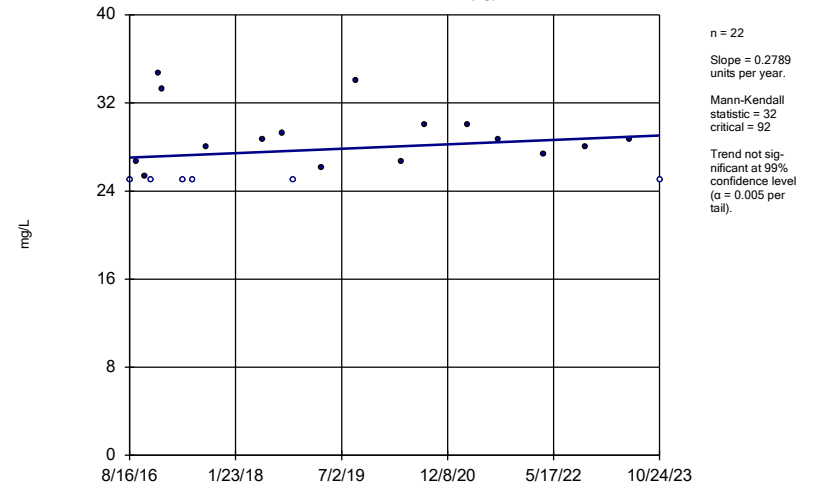


Constituent: TDS Analysis Run 1/8/2024 11:47 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

Hollow symbols indicate censored values.

### Sen's Slope Estimator

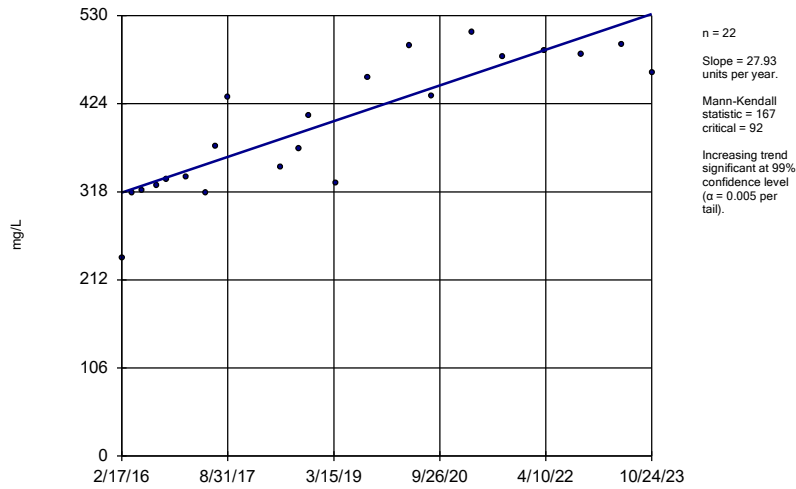
GC-AP-MW-30 (bg)



Constituent: TDS Analysis Run 1/8/2024 11:48 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

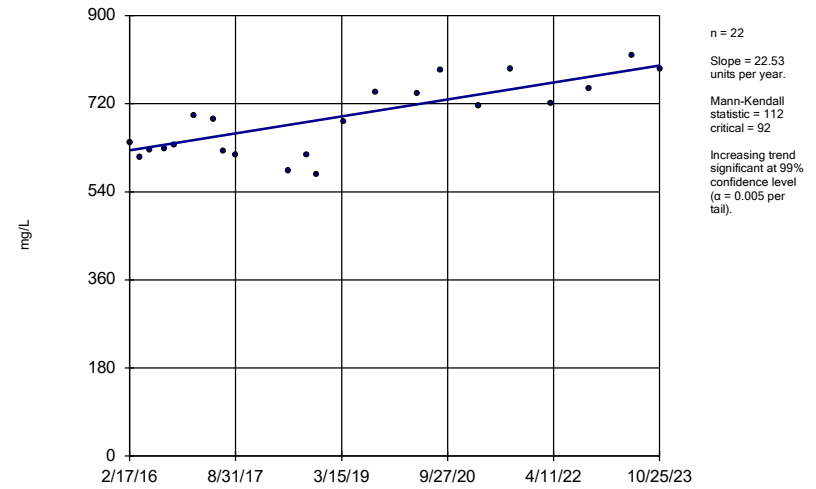
GC-AP-MW-5



Constituent: TDS Analysis Run 1/8/2024 11:48 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

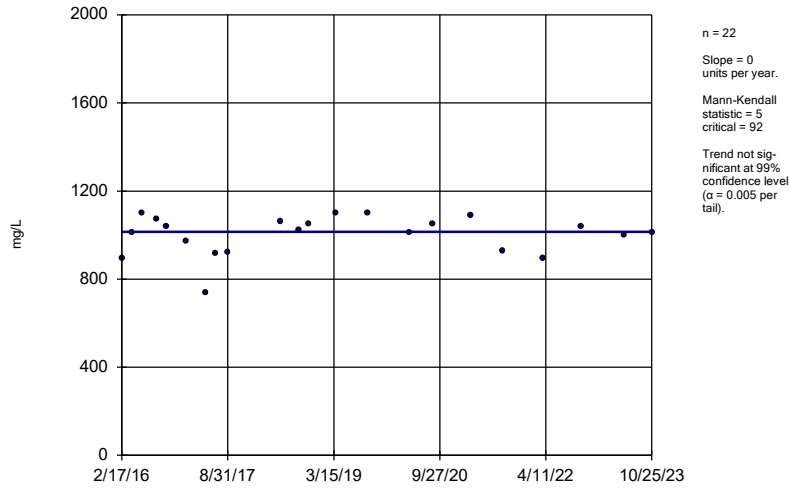
GC-AP-MW-6



Constituent: TDS Analysis Run 1/8/2024 11:48 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

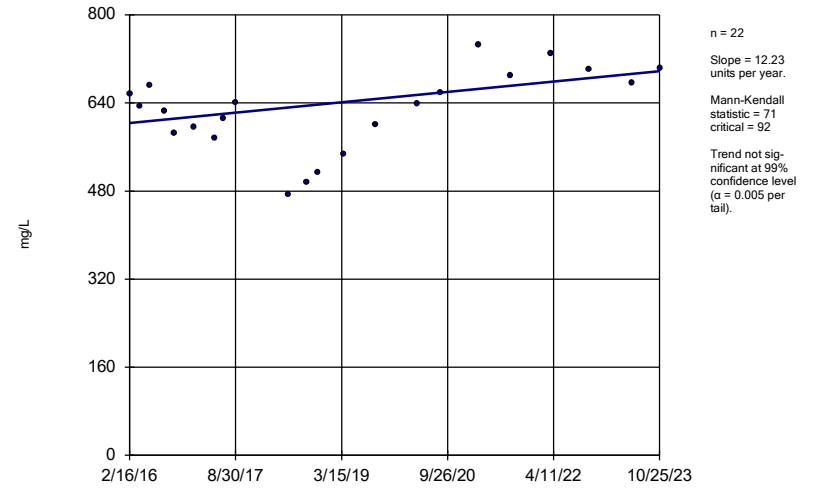
GC-AP-MW-7



Constituent: TDS Analysis Run 1/8/2024 11:48 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

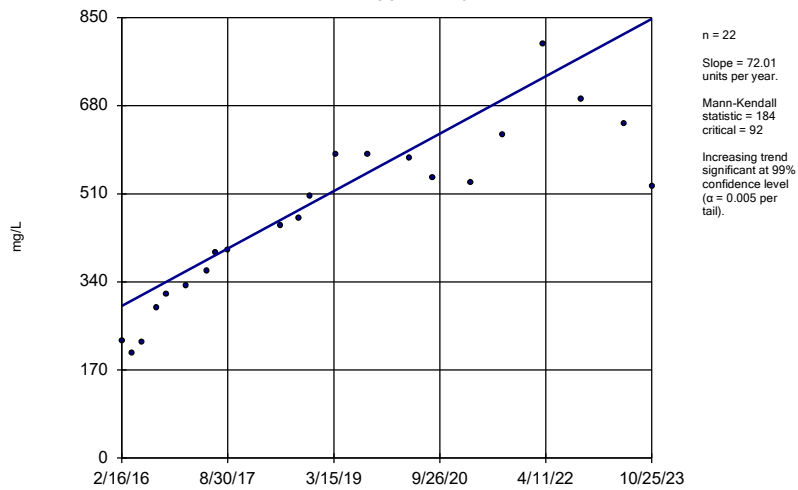
GC-AP-MW-8



Constituent: TDS Analysis Run 1/8/2024 11:48 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-9



Constituent: TDS Analysis Run 1/8/2024 11:48 AM View: Appendix III - Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

FIGURE G.

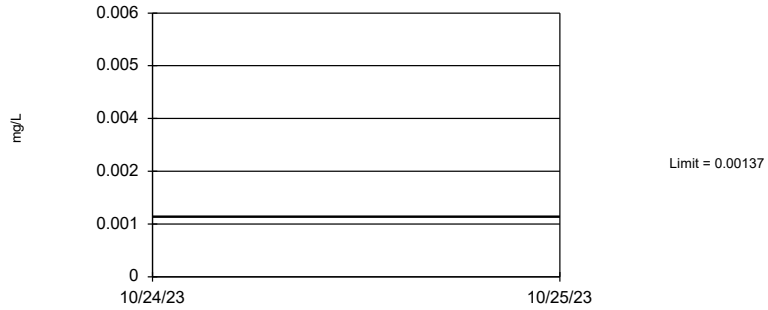


# Upper Tolerance Limits Summary Table

Plant Greene County Data: Greene County AP Printed 1/8/2024, 2:22 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.00137	147	n/a	n/a	93.2	n/a	n/a	0.0005313	NP Inter
Arsenic (mg/L)	0.0044	147	n/a	n/a	80.95	n/a	n/a	0.0005313	NP Inter
Barium (mg/L)	0.347	147	n/a	n/a	0	n/a	n/a	0.0005313	NP Inter
Beryllium (mg/L)	0.00226	147	n/a	n/a	89.12	n/a	n/a	0.0005313	NP Inter
Cadmium (mg/L)	0.000912	147	n/a	n/a	70.75	n/a	n/a	0.0005313	NP Inter
Chromium (mg/L)	0.001015	147	n/a	n/a	74.83	n/a	n/a	0.0005313	NP Inter
Cobalt (mg/L)	0.0167	147	n/a	n/a	51.02	n/a	n/a	0.0005313	NP Inter
Combined Radium 226 + 228 (pCi/L)	3.88	147	n/a	n/a	2.721	n/a	n/a	0.0005313	NP Inter
Fluoride (mg/L)	0.159	148	n/a	n/a	68.24	n/a	n/a	0.0005048	NP Inter
Lead (mg/L)	0.000203	147	n/a	n/a	98.64	n/a	n/a	0.0005313	NP Inter
Lithium (mg/L)	0.02	147	n/a	n/a	100	n/a	n/a	0.0005313	NP Inter
Mercury (mg/L)	0.0005	147	n/a	n/a	100	n/a	n/a	0.0005313	NP Inter
Molybdenum (mg/L)	0.01015	147	n/a	n/a	97.28	n/a	n/a	0.0005313	NP Inter
Selenium (mg/L)	0.0072	147	n/a	n/a	86.39	n/a	n/a	0.0005313	NP Inter
Thallium (mg/L)	0.00039	147	n/a	n/a	98.64	n/a	n/a	0.0005313	NP Inter

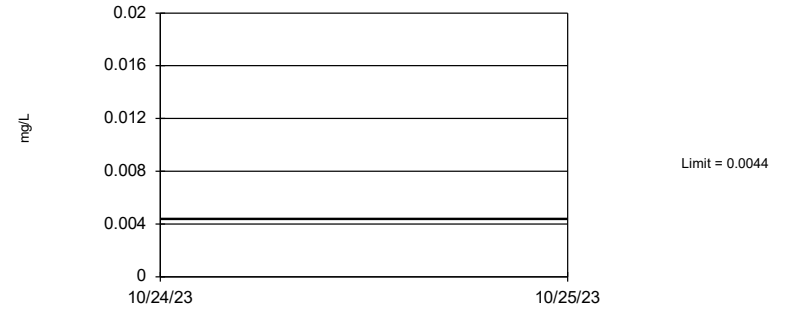
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 147 background values. 93.2% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005313.

Constituent: Antimony Analysis Run 1/8/2024 2:21 PM View: Appendix IV UTLs  
Plant Greene County Data: Greene County AP

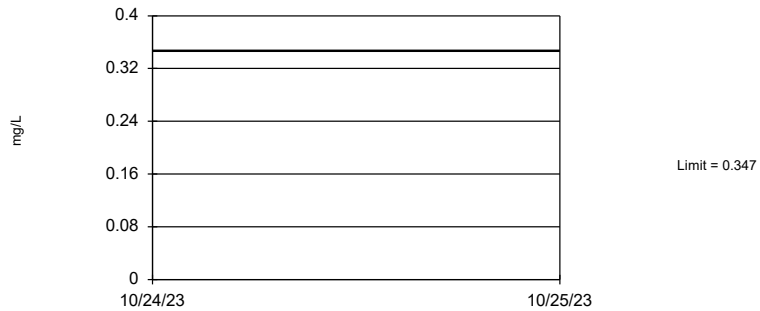
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 147 background values. 80.95% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005313.

Constituent: Arsenic Analysis Run 1/8/2024 2:21 PM View: Appendix IV UTLs  
Plant Greene County Data: Greene County AP

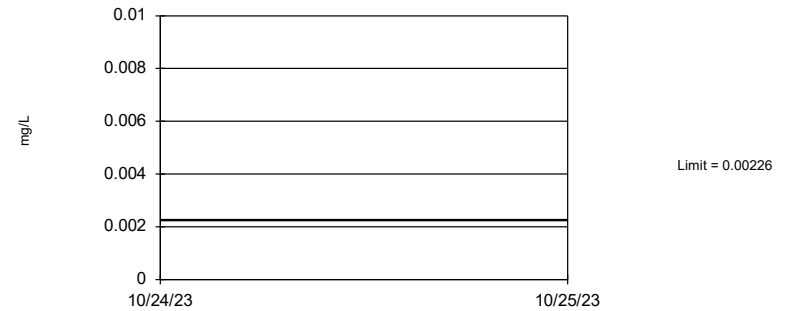
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 147 background values. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005313.

Constituent: Barium Analysis Run 1/8/2024 2:21 PM View: Appendix IV UTLs  
Plant Greene County Data: Greene County AP

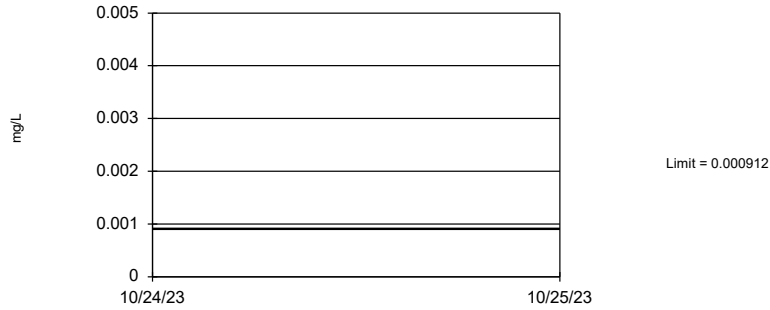
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 147 background values. 89.12% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005313.

Constituent: Beryllium Analysis Run 1/8/2024 2:21 PM View: Appendix IV UTLs  
Plant Greene County Data: Greene County AP

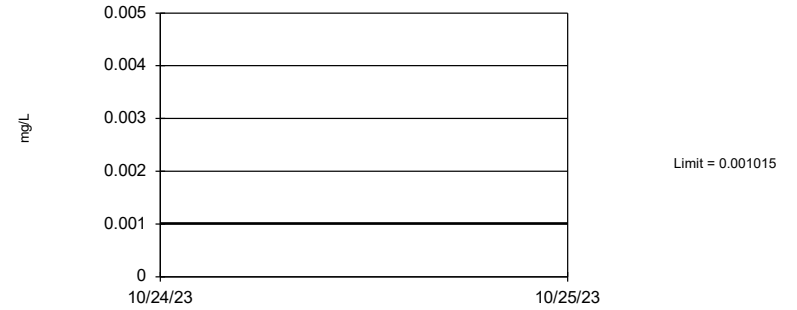
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 147 background values. 70.75% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005313.

Constituent: Cadmium Analysis Run 1/8/2024 2:21 PM View: Appendix IV UTLs  
Plant Greene County Data: Greene County AP

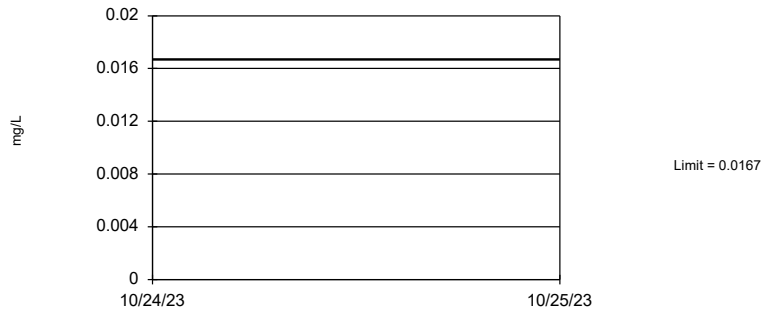
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 147 background values. 74.83% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005313.

Constituent: Chromium Analysis Run 1/8/2024 2:21 PM View: Appendix IV UTLs  
Plant Greene County Data: Greene County AP

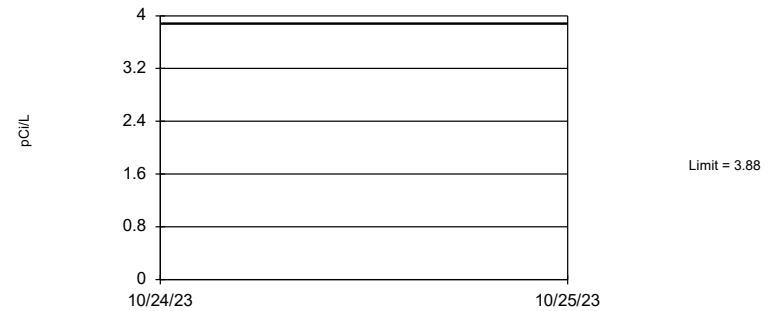
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 147 background values. 51.02% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005313.

Constituent: Cobalt Analysis Run 1/8/2024 2:21 PM View: Appendix IV UTLs  
Plant Greene County Data: Greene County AP

### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 147 background values. 2.721% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005313.

Constituent: Combined Radium 226 + 228 Analysis Run 1/8/2024 2:21 PM View: Appendix IV UTLs  
Plant Greene County Data: Greene County AP

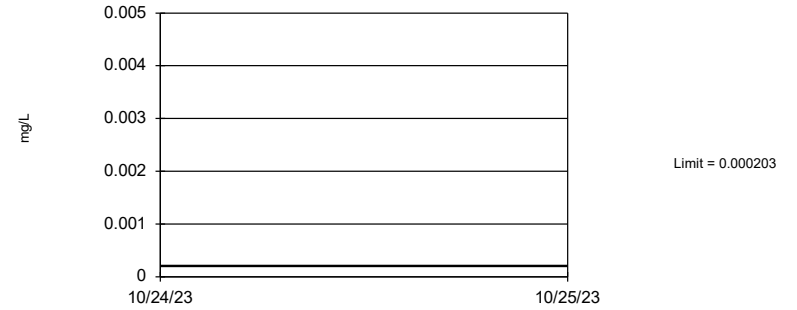
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 148 background values. 68.24% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005048.

Constituent: Fluoride Analysis Run 1/8/2024 2:21 PM View: Appendix IV UTLs  
Plant Greene County Data: Greene County AP

### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 147 background values. 98.64% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005313.

Constituent: Lead Analysis Run 1/8/2024 2:21 PM View: Appendix IV UTLs  
Plant Greene County Data: Greene County AP

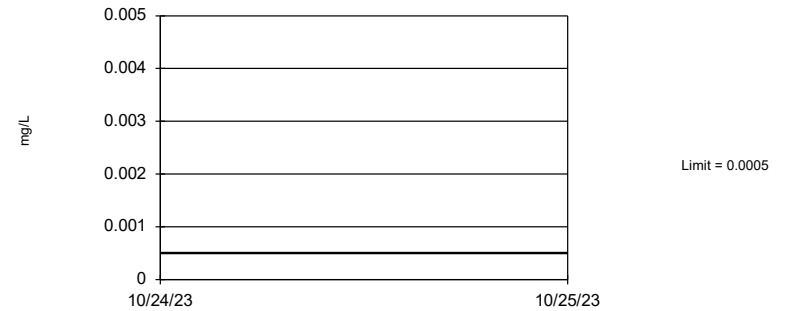
### Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005313.

Constituent: Lithium Analysis Run 1/8/2024 2:21 PM View: Appendix IV UTLs  
Plant Greene County Data: Greene County AP

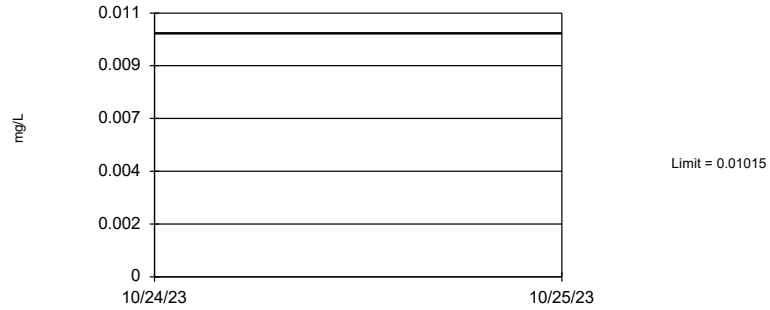
### Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005313.

Constituent: Mercury Analysis Run 1/8/2024 2:21 PM View: Appendix IV UTLs  
Plant Greene County Data: Greene County AP

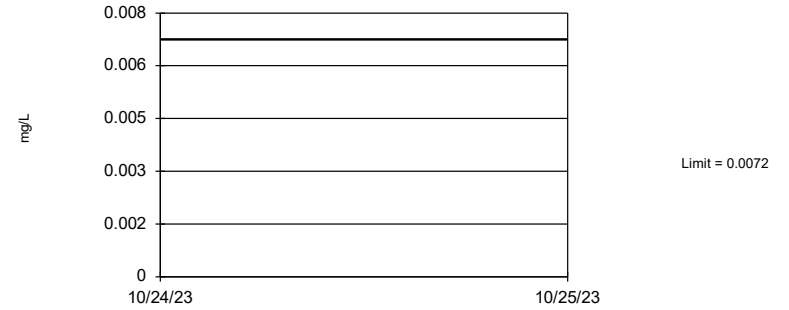
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 147 background values. 97.28% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005313.

Constituent: Molybdenum Analysis Run 1/8/2024 2:21 PM View: Appendix IV UTLs  
Plant Greene County Data: Greene County AP

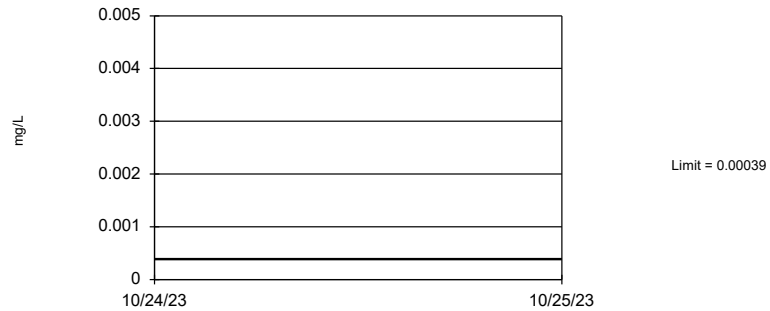
### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 147 background values. 86.39% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005313.

Constituent: Selenium Analysis Run 1/8/2024 2:21 PM View: Appendix IV UTLs  
Plant Greene County Data: Greene County AP

### Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 147 background values. 98.64% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005313.

Constituent: Thallium Analysis Run 1/8/2024 2:21 PM View: Appendix IV UTLs  
Plant Greene County Data: Greene County AP

FIGURE H.

<b>GREENE COUNTY ASH POND GWPS</b>			
<b>Analyte</b>	<b>Units</b>	<b>Background</b>	<b>GWPS</b>
Antimony	mg/L	0.00137	0.006
Arsenic	mg/L	0.0044	0.01
Barium	mg/L	0.347	2
Beryllium	mg/L	0.00226	0.004
Cadmium	mg/L	0.000912	0.005
Chromium	mg/L	0.001015	0.1
Cobalt	mg/L	0.0167	0.0167
Combined Radium-226/228	pCi/L	3.88	5
Fluoride	mg/L	0.159	4
Lead	mg/L	0.000203	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.01015	0.1
Selenium	mg/L	0.0072	0.05
Thallium	mg/L	0.00039	0.002

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2019.

FIGURE I.



# Confidence Interval - Significant Results

Plant Greene County Data: Greene County AP Printed 1/1/2024, 5:10 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	GC-AP-MW-1	0.02425	0.01365	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-10	0.01281	0.01177	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-14	0.02938	0.02027	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-16	0.1016	0.06116	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-17	1.005	0.6901	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-18	0.05098	0.04777	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-5	0.4457	0.3695	0.01	Yes	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-1	0.2676	0.1969	0.0167	Yes	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-10	0.04119	0.01712	0.0167	Yes	8	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-11	0.04097	0.01851	0.0167	Yes	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-14	0.04113	0.03077	0.0167	Yes	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-15	0.01916	0.01779	0.0167	Yes	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-2	0.03671	0.02291	0.0167	Yes	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-9	0.03048	0.01852	0.0167	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-10	0.2675	0.1187	0.04	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-11	0.1601	0.07183	0.04	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-12	0.1449	0.09527	0.04	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-13	0.6269	0.1976	0.04	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-14	0.8412	0.5	0.04	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-15	0.6193	0.5402	0.04	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-16	0.6624	0.5738	0.04	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-17	0.762	0.562	0.04	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-18	0.3647	0.2868	0.04	Yes	8	0	None	No	0.01	Param.
Lithium (mg/L)	GC-AP-MW-21	0.1108	0.06108	0.04	Yes	8	0	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-5	0.1372	0.08334	0.04	Yes	8	0	None	No	0.01	Param.

# Confidence Interval - All Results

Plant Greene County    Data: Greene County AP    Printed 1/1/2024, 5:10 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GC-AP-MW-12	0.001015	0.000815	0.006	No	8	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GC-AP-MW-13	0.003242	0.001547	0.006	No	8	0	None	sqrt(x)	0.01	Param.
Antimony (mg/L)	GC-AP-MW-7	0.001015	0.00066	0.006	No	8	75	None	No	0.004	NP (NDs)
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-1</b>	<b>0.02425</b>	<b>0.01365</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>0.01281</b>	<b>0.01177</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	GC-AP-MW-11	0.005607	0.002043	0.01	No	8	0	None	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-12	0.0002966	0.0002006	0.01	No	8	25	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-13	0.0195	0.00176	0.01	No	8	0	None	No	0.004	NP (normality)
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.02938</b>	<b>0.02027</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	GC-AP-MW-15	0.0004415	0.0002462	0.01	No	8	25	Kaplan-Meier	No	0.01	Param.
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>0.1016</b>	<b>0.06116</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>1.005</b>	<b>0.6901</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-18</b>	<b>0.05098</b>	<b>0.04777</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	GC-AP-MW-2	0.008943	0.003127	0.01	No	8	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-21	0.0001894	0.0001154	0.01	No	8	37.5	Kaplan-Meier	x^3	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-25	0.0003468	0.0001707	0.01	No	8	25	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-3	0.01229	0.00901	0.01	No	8	0	None	x^2	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-31	0.000203	0.000111	0.01	No	8	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-32	0.000203	0.000142	0.01	No	8	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GC-AP-MW-33	0.0002004	0.00009347	0.01	No	8	50	Kaplan-Meier	No	0.01	Param.
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>0.4457</b>	<b>0.3695</b>	<b>0.01</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	GC-AP-MW-6	0.000261	0.0001312	0.01	No	8	37.5	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-7	0.00024	0.00005964	0.01	No	8	37.5	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-8	0.0002682	0.000162	0.01	No	8	25	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	GC-AP-MW-9	0.01152	0.006499	0.01	No	8	0	None	x^2	0.01	Param.
Barium (mg/L)	GC-AP-MW-1	0.03184	0.02014	2	No	8	0	None	ln(x)	0.01	Param.
Barium (mg/L)	GC-AP-MW-10	0.2823	0.216	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-11	0.0957	0.05575	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-12	0.03639	0.02409	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-13	0.1496	0.05163	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-14	0.1243	0.09258	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-15	0.04118	0.03457	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-16	0.1174	0.09283	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-17	0.3199	0.2491	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-18	0.08646	0.06912	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-2	0.03686	0.03074	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-21	0.1038	0.0527	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-25	0.1054	0.0708	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-3	0.1579	0.1259	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-31	0.03554	0.02753	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-32	0.0764	0.0127	2	No	8	0	None	No	0.004	NP (normality)
Barium (mg/L)	GC-AP-MW-33	0.1004	0.02784	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-5	0.1415	0.1327	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-6	0.07465	0.06145	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-7	0.08405	0.06848	2	No	8	0	None	x^3	0.01	Param.
Barium (mg/L)	GC-AP-MW-8	0.1372	0.1048	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	GC-AP-MW-9	0.1711	0.1364	2	No	8	0	None	No	0.01	Param.
Cadmium (mg/L)	GC-AP-MW-1	0.000203	0.000089	0.005	No	8	62.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-11	0.000347	0.000203	0.005	No	8	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-13	0.000203	0.00008	0.005	No	8	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-15	0.00046	0.00012	0.005	No	8	25	None	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-16	0.000203	0.000069	0.005	No	8	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-2	0.000203	0.000077	0.005	No	8	62.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-21	0.0001213	0.00007056	0.005	No	8	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Cadmium (mg/L)	GC-AP-MW-25	0.000203	0.00007	0.005	No	8	37.5	None	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-6	0.00278	0.000076	0.005	No	8	37.5	None	No	0.004	NP (normality)
Cadmium (mg/L)	GC-AP-MW-7	0.000292	0.000203	0.005	No	8	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-8	0.000241	0.000203	0.005	No	8	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GC-AP-MW-9	0.000308	0.000203	0.005	No	8	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-1	0.001015	0.000287	0.1	No	8	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-10	0.001015	0.000217	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-11	0.001015	0.00023	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-12	0.001015	0.000224	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-13	0.001015	0.000232	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-14	0.001015	0.00023	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-15	0.001015	0.00027	0.1	No	8	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	GC-AP-MW-16	0.001015	0.000267	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-17	0.001015	0.000211	0.1	No	8	37.5	None	No	0.004	NP (normality)

# Confidence Interval - All Results

Plant Greene County    Data: Greene County AP    Printed 1/1/2024, 5:10 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	GC-AP-MW-18	0.001015	0.00023	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-2	0.00267	0.000256	0.1	No	8	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-21	0.001015	0.00022	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-25	0.001015	0.000214	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-3	0.001015	0.000286	0.1	No	8	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-31	0.001015	0.000268	0.1	No	8	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-32	0.001015	0.000301	0.1	No	8	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-33	0.0005839	0.0003485	0.1	No	8	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	GC-AP-MW-5	0.001015	0.00025	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-6	0.001015	0.000228	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-7	0.001015	0.00024	0.1	No	8	25	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-8	0.001015	0.000217	0.1	No	8	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	GC-AP-MW-9	0.001015	0.000238	0.1	No	8	25	None	No	0.004	NP (normality)
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-1</b>	<b>0.2676</b>	<b>0.1969</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>0.04119</b>	<b>0.01712</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>ln(x)</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-11</b>	<b>0.04097</b>	<b>0.01851</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	GC-AP-MW-12	0.001007	0.0003159	0.0167	No	8	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-13	0.002887	0.0000557	0.0167	No	8	25	Kaplan-Meier	sqrt(x)	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.04113</b>	<b>0.03077</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>0.01916</b>	<b>0.01779</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	GC-AP-MW-16	0.01561	0.01369	0.0167	No	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-17	0.01453	0.008055	0.0167	No	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-18	0.02051	0.01609	0.0167	No	8	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-2</b>	<b>0.03671</b>	<b>0.02291</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Cobalt (mg/L)	GC-AP-MW-21	0.003824	0.000625	0.0167	No	8	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-25	0.01415	0.01004	0.0167	No	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-3	0.001654	0.0001807	0.0167	No	8	12.5	None	ln(x)	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-31	0.0007063	0.0004175	0.0167	No	8	25	Kaplan-Meier	x^3	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-32	0.00105	0.000203	0.0167	No	8	75	Kaplan-Meier	No	0.004	NP (NDs)
Cobalt (mg/L)	GC-AP-MW-33	0.00117	0.000203	0.0167	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	GC-AP-MW-5	0.009228	0.006007	0.0167	No	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-6	0.003608	0.001957	0.0167	No	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-7	0.003725	0.001563	0.0167	No	8	0	None	No	0.01	Param.
Cobalt (mg/L)	GC-AP-MW-8	0.009844	0.005228	0.0167	No	8	0	None	No	0.01	Param.
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>0.03048</b>	<b>0.01852</b>	<b>0.0167</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-1	1.579	0.8261	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-10	1.819	0.9981	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-11	0.9444	0.3224	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-12	1.137	0.01197	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-13	0.5556	0.2901	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-14	1.554	0.8148	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-15	0.983	0.273	5	No	8	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-16	1.592	0.5121	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-17	2.381	1.246	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-18	1.6	0.8194	5	No	8	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-2	1.764	0.6844	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-21	0.8409	0.1217	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-25	1.165	0.2486	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-3	1.018	0.5362	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-31	0.8289	0.2726	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-32	3.18	0.467	5	No	8	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-33	2.293	0.8056	5	No	8	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-5	2.043	0.9871	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-6	1.069	0.3577	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-7	1.029	0.4849	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-8	1.5	0.628	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GC-AP-MW-9	1.832	1.151	5	No	8	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-1	0.15	0.08993	4	No	8	0	None	x^2	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-10	0.3051	0.2148	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-11	0.1669	0.08113	4	No	8	12.5	None	x^2	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-12	0.2141	0.1407	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-13	0.1254	0.05166	4	No	8	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-14	0.271	0.2253	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-15	0.1569	0.1214	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-16	0.2938	0.2513	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-17	0.594	0.5014	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-18	0.2069	0.1558	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-2	0.1487	0.06747	4	No	8	0	None	No	0.01	Param.

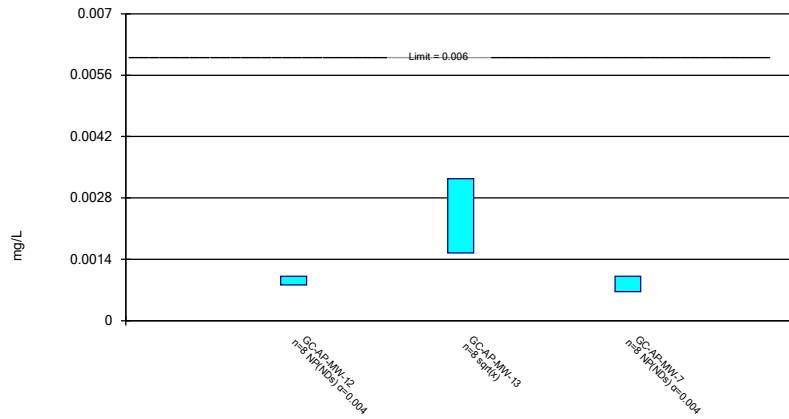
# Confidence Interval - All Results

Plant Greene County Data: Greene County AP Printed 1/1/2024, 5:10 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GC-AP-MW-21	0.1693	0.06144	4	No	8	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-25	0.1003	0.05218	4	No	8	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-3	0.1964	0.1169	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-31	0.0671	0.0258	4	No	8	75	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-32	0.0401	0.04	4	No	8	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-33	0.064	0.04	4	No	8	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GC-AP-MW-5	0.2838	0.1925	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-6	0.2132	0.1506	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-7	0.1103	0.07574	4	No	8	0	None	No	0.01	Param.
Fluoride (mg/L)	GC-AP-MW-8	0.179	0.0981	4	No	8	0	None	No	0.004	NP (normality)
Fluoride (mg/L)	GC-AP-MW-9	0.1793	0.09442	4	No	8	12.5	None	x^2	0.01	Param.
Lead (mg/L)	GC-AP-MW-16	0.0001269	0.00007772	0.015	No	8	25	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	GC-AP-MW-2	0.0007465	0.0002878	0.015	No	8	25	Kaplan-Meier	No	0.01	Param.
Lead (mg/L)	GC-AP-MW-25	0.000203	0.0000884	0.015	No	8	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-3	0.000203	0.000097	0.015	No	8	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-31	0.000203	0.00015	0.015	No	8	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-32	0.000203	0.000121	0.015	No	8	75	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-33	0.000203	0.000115	0.015	No	8	50	None	No	0.004	NP (normality)
Lead (mg/L)	GC-AP-MW-5	0.000203	0.000118	0.015	No	8	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-7	0.00036	0.000203	0.015	No	8	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	GC-AP-MW-9	0.000203	0.0000784	0.015	No	8	75	None	No	0.004	NP (NDs)
Lithium (mg/L)	GC-AP-MW-1	0.02	0.0081	0.04	No	8	87.5	None	No	0.004	NP (NDs)
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>0.2675</b>	<b>0.1187</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-11</b>	<b>0.1601</b>	<b>0.07183</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-12</b>	<b>0.1449</b>	<b>0.09527</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-13</b>	<b>0.6269</b>	<b>0.1976</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.8412</b>	<b>0.5</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>0.6193</b>	<b>0.5402</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-16</b>	<b>0.6624</b>	<b>0.5738</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>0.762</b>	<b>0.562</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-18</b>	<b>0.3647</b>	<b>0.2868</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-21</b>	<b>0.1108</b>	<b>0.06108</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>x^(1/3)</b>	<b>0.01</b>	<b>Param.</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-5</b>	<b>0.1372</b>	<b>0.08334</b>	<b>0.04</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Lithium (mg/L)	GC-AP-MW-6	0.0518	0.00951	0.04	No	8	50	None	No	0.004	NP (normality)
Lithium (mg/L)	GC-AP-MW-8	0.04159	0.007572	0.04	No	8	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Lithium (mg/L)	GC-AP-MW-9	0.05704	0.01066	0.04	No	8	0	None	No	0.01	Param.
Mercury (mg/L)	GC-AP-MW-11	0.0005	0.000321	0.002	No	8	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-1	0.01015	0.000117	0.1	No	8	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-10	0.01165	0.005778	0.1	No	8	12.5	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-11	0.01726	0.007183	0.1	No	8	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-12	0.0839	0.04491	0.1	No	8	0	None	x^(1/3)	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-13	0.07838	0.01203	0.1	No	8	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-14	0.02254	0.01161	0.1	No	8	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-16	0.01015	0.000113	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-17	0.06394	0.04391	0.1	No	8	0	None	No	0.01	Param.
Molybdenum (mg/L)	GC-AP-MW-18	0.01015	0.000305	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-2	0.01015	0.0000804	0.1	No	8	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-21	0.0562	0.00666	0.1	No	8	25	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-25	0.01015	0.0000843	0.1	No	8	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-31	0.01015	0.0000741	0.1	No	8	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GC-AP-MW-5	0.01015	0.00255	0.1	No	8	25	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-6	0.01015	0.00142	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-7	0.01015	0.00012	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	GC-AP-MW-8	0.01015	0.0000812	0.1	No	8	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-1	0.001779	0.0006601	0.05	No	8	25	Kaplan-Meier	ln(x)	0.01	Param.
Selenium (mg/L)	GC-AP-MW-12	0.00281	0.00081	0.05	No	8	50	None	No	0.004	NP (normality)
Selenium (mg/L)	GC-AP-MW-13	0.02753	0.003986	0.05	No	8	0	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	GC-AP-MW-2	0.001015	0.00054	0.05	No	8	75	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-3	0.001015	0.000538	0.05	No	8	25	None	No	0.004	NP (normality)
Selenium (mg/L)	GC-AP-MW-32	0.001015	0.00059	0.05	No	8	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	GC-AP-MW-33	0.001015	0.000704	0.05	No	8	62.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	GC-AP-MW-1	0.000164	0.000105	0.002	No	8	25	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-11	0.000203	0.00007	0.002	No	8	37.5	None	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-13	0.001799	0.0002466	0.002	No	8	0	None	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-15	0.000203	0.000084	0.002	No	8	50	None	No	0.004	NP (normality)
Thallium (mg/L)	GC-AP-MW-16	0.0003598	0.0003202	0.002	No	8	0	None	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-2	0.0001532	0.0001032	0.002	No	8	25	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	GC-AP-MW-21	0.000203	0.000106	0.002	No	8	62.5	Kaplan-Meier	No	0.004	NP (NDs)

### Parametric and Non-Parametric (NP) Confidence Interval

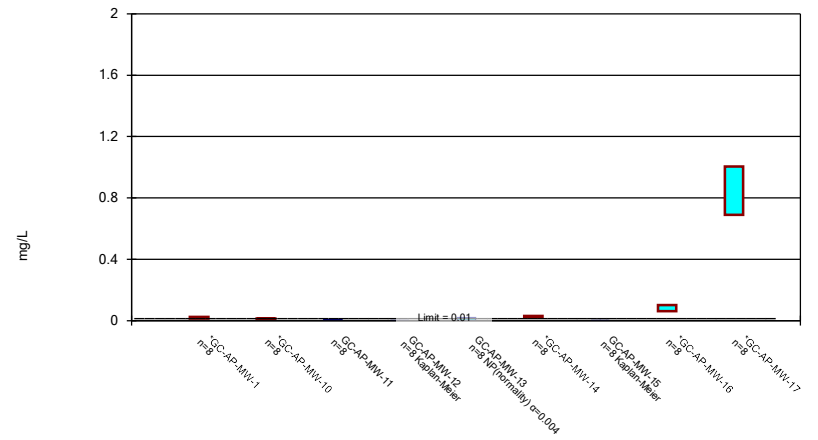
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 1/1/2024 5:08 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

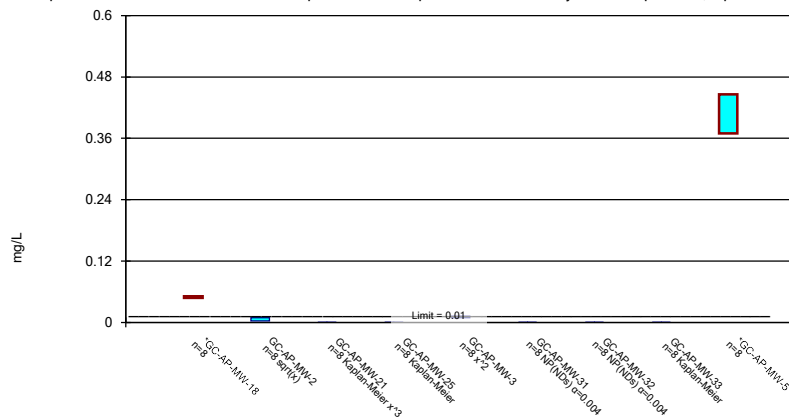
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 1/1/2024 5:08 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

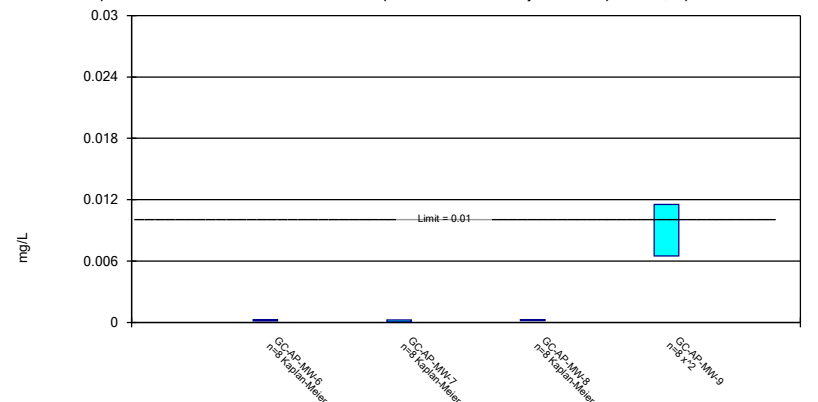
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric Confidence Interval

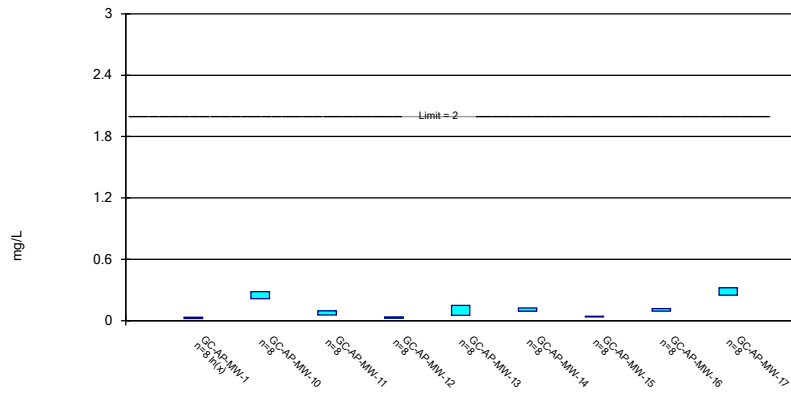
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric Confidence Interval

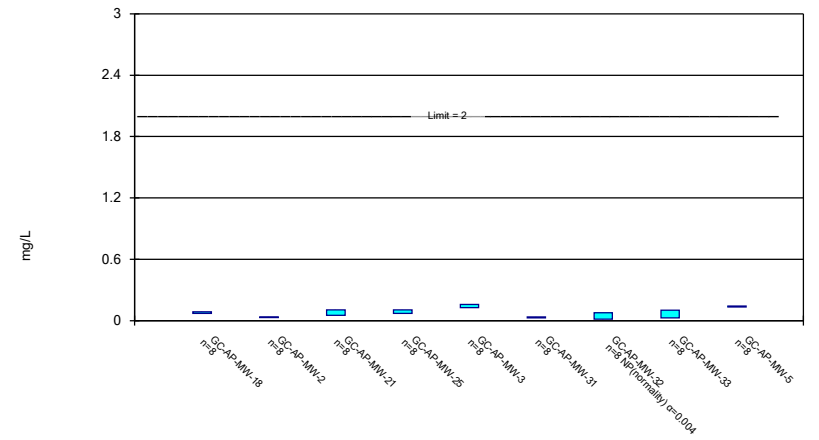
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

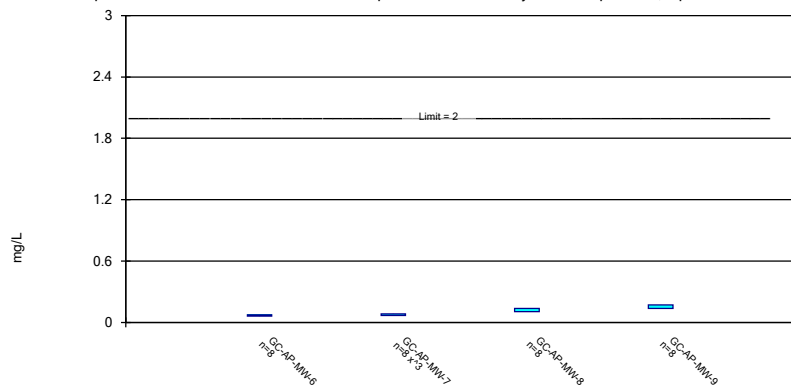
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric Confidence Interval

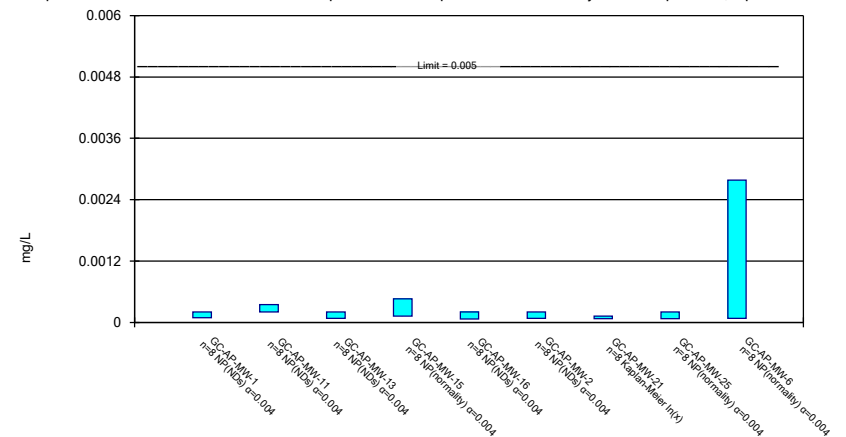
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

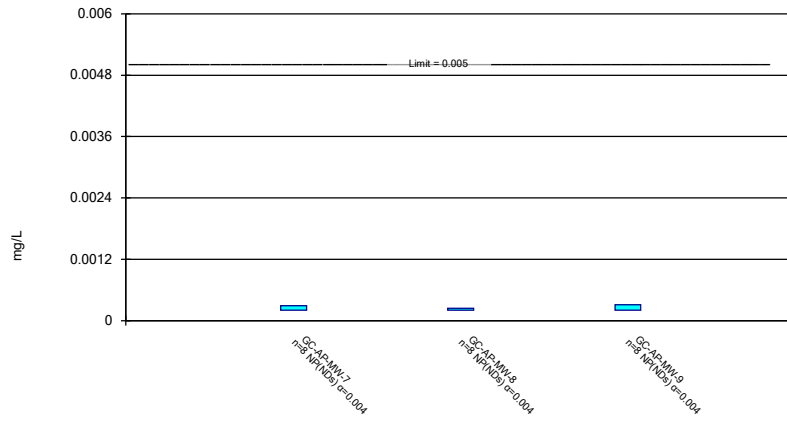
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Non-Parametric Confidence Interval

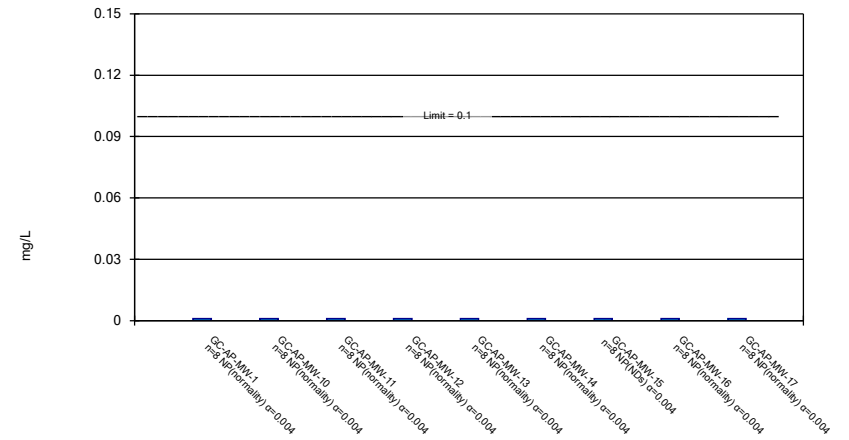
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Non-Parametric Confidence Interval

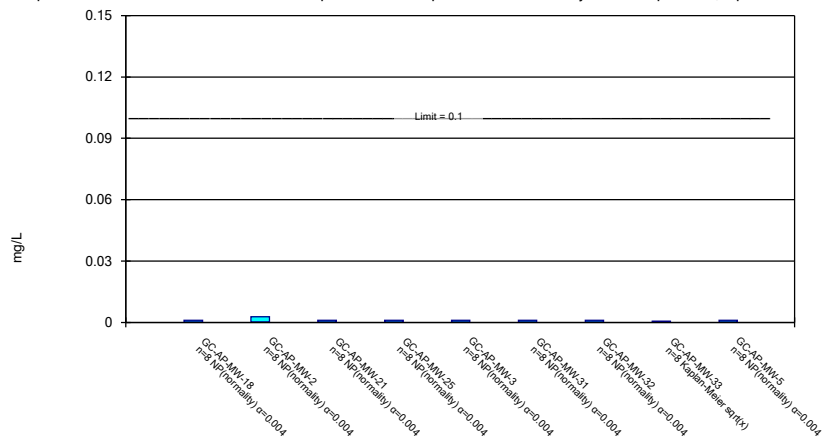
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

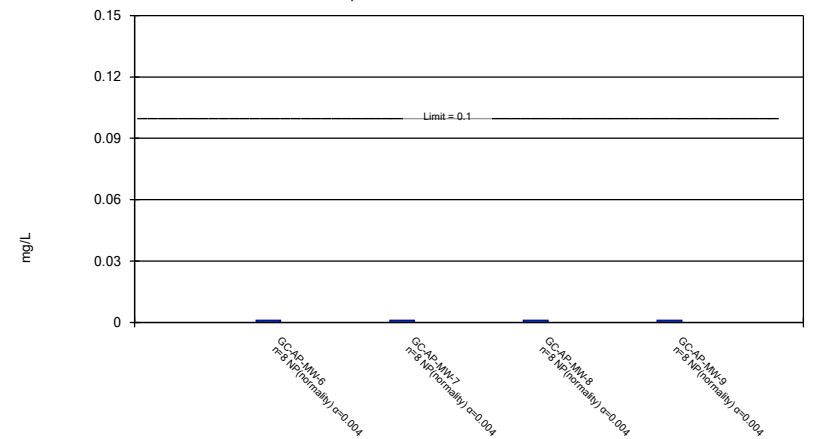
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Non-Parametric Confidence Interval

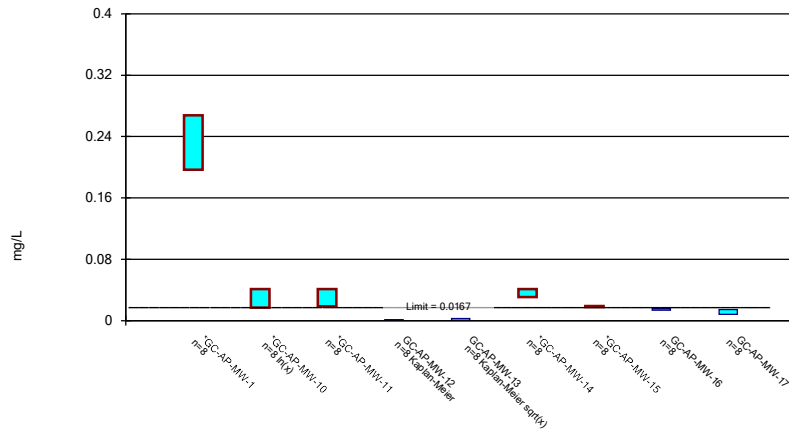
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric Confidence Interval

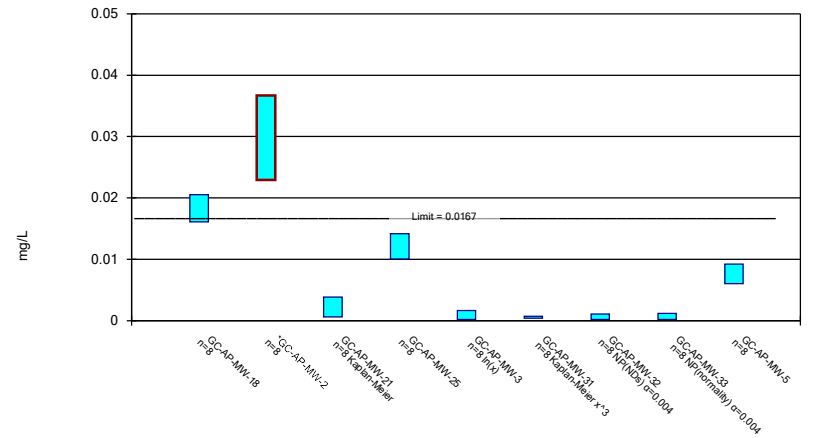
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

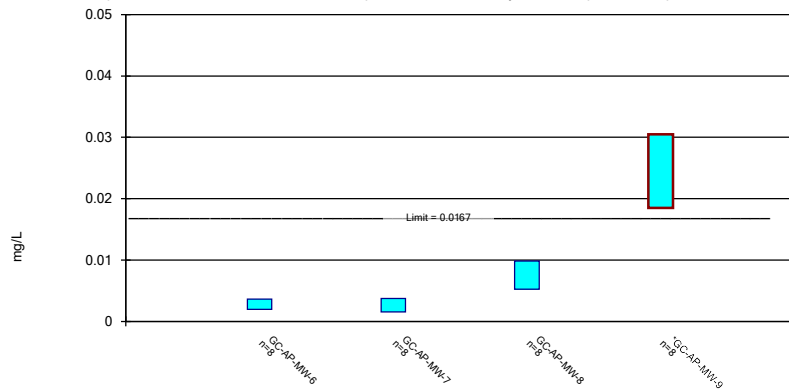
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric Confidence Interval

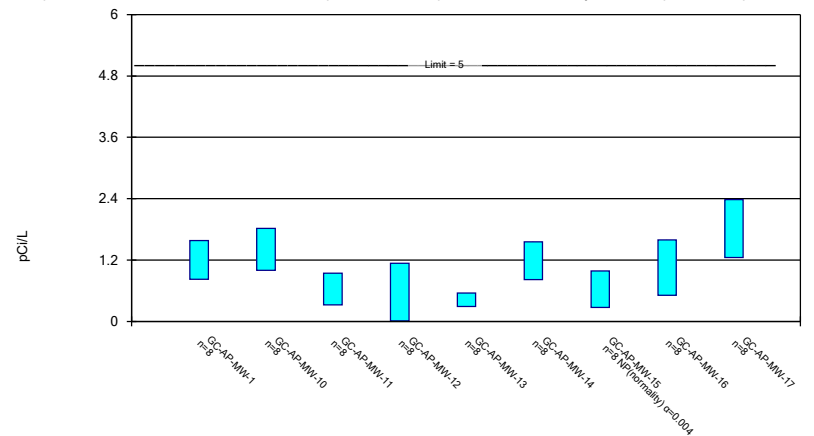
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

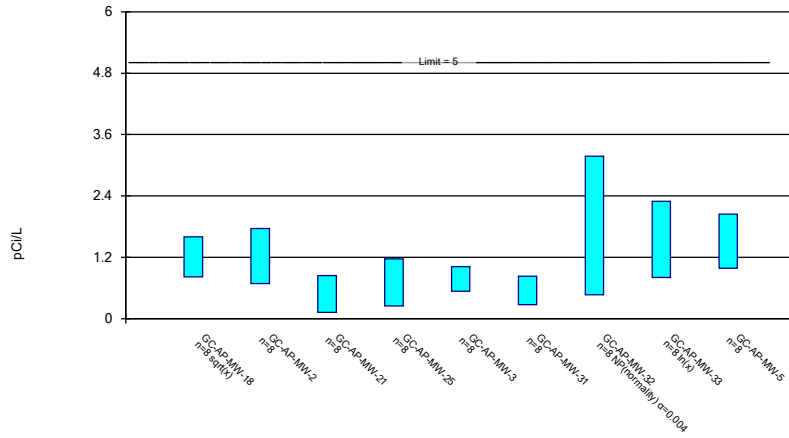


Constituent: Combined Radium 226 + 228 Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP



### Parametric and Non-Parametric (NP) Confidence Interval

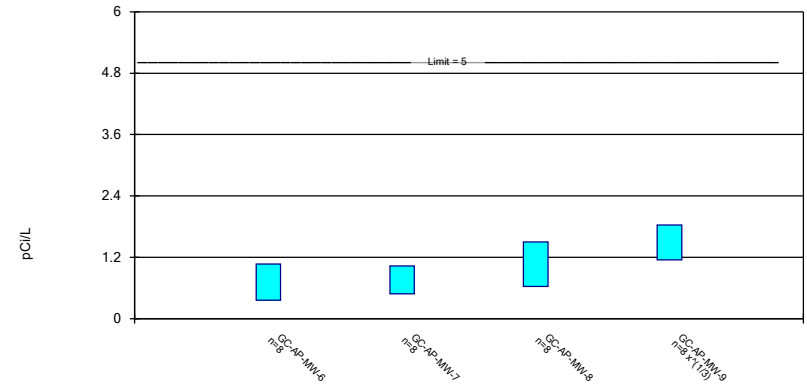
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric Confidence Interval

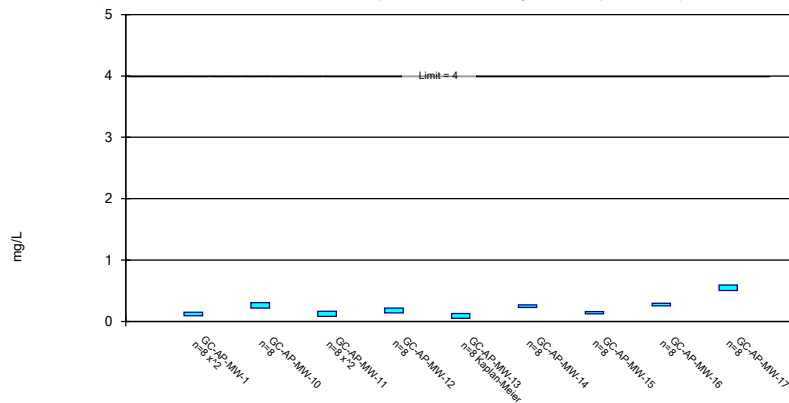
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric Confidence Interval

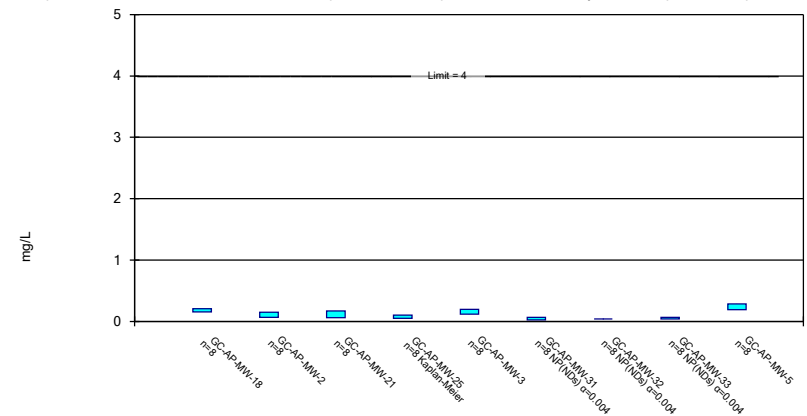
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

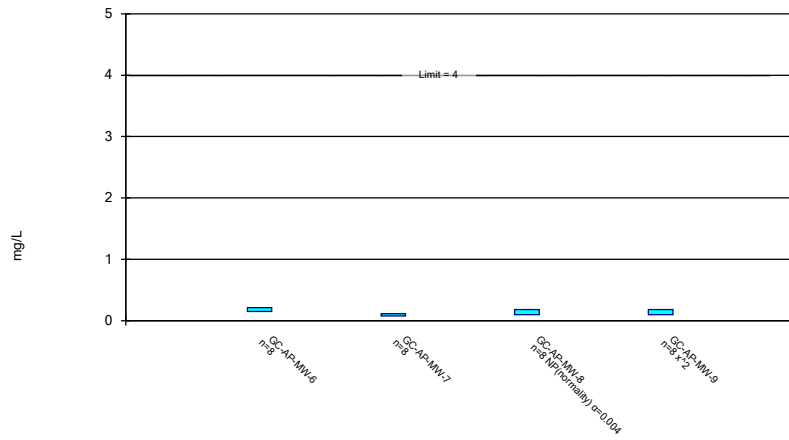
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

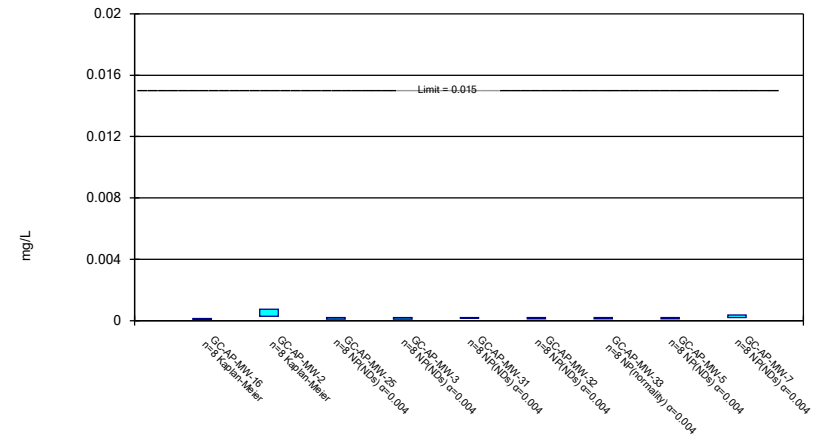
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

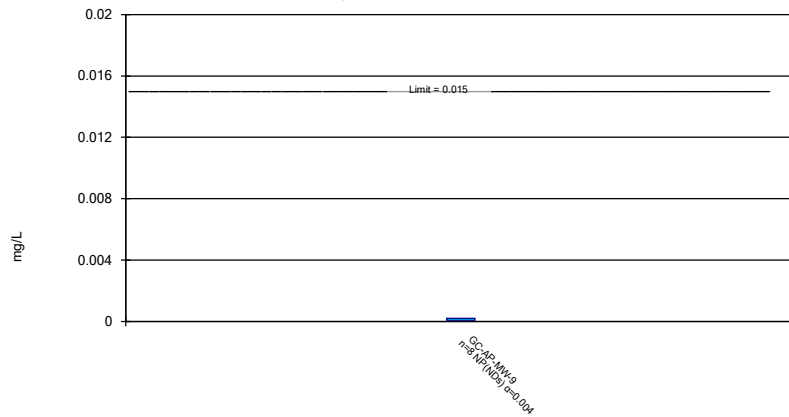
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Non-Parametric Confidence Interval

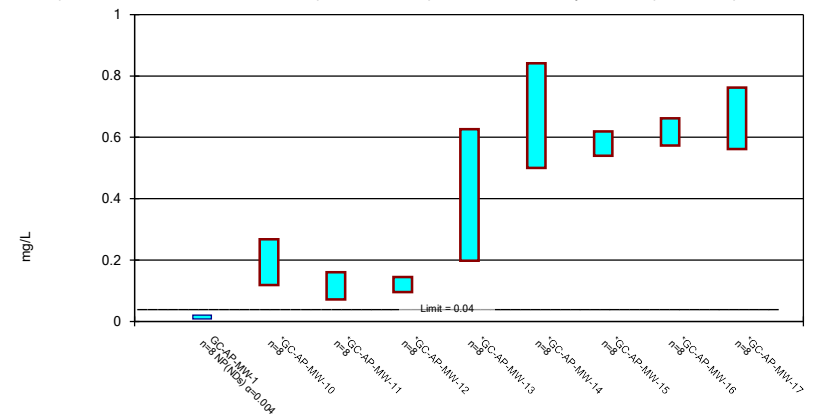
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

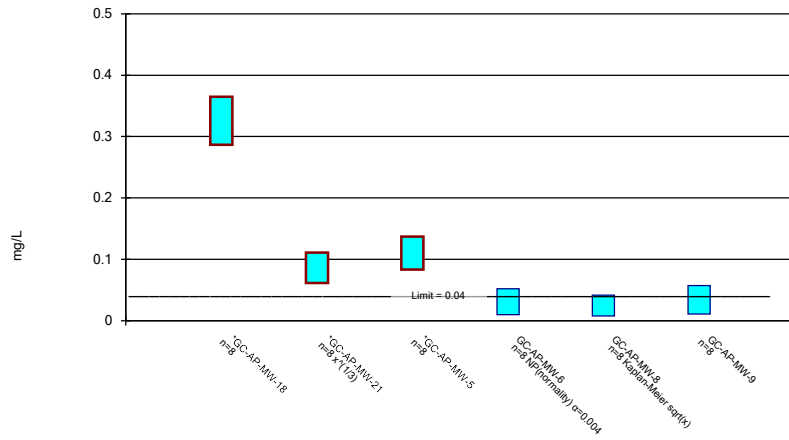
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

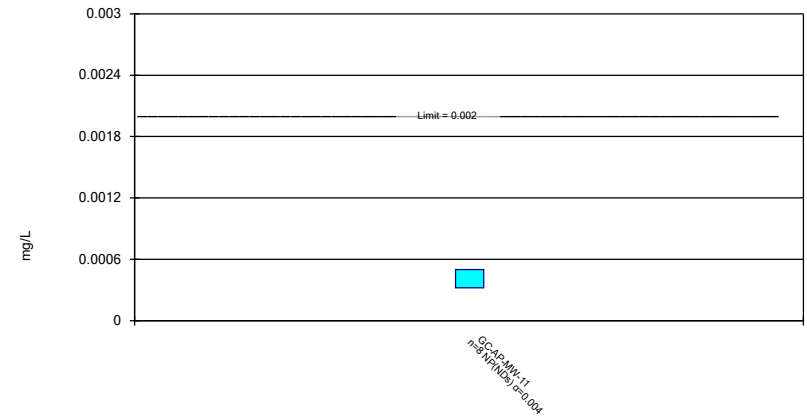
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Non-Parametric Confidence Interval

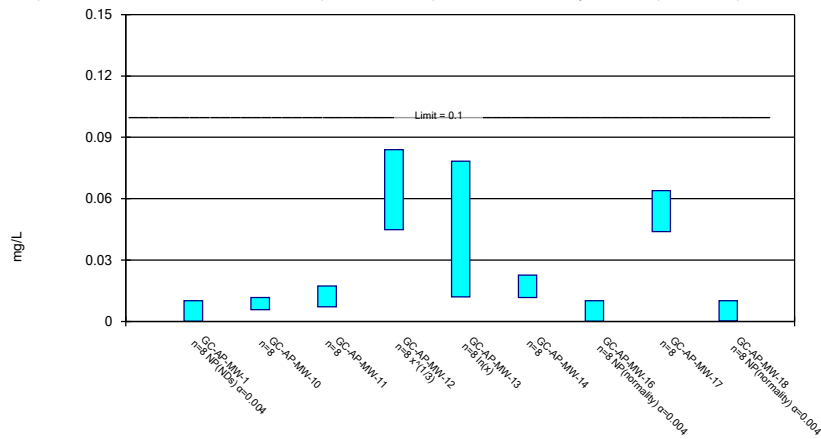
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

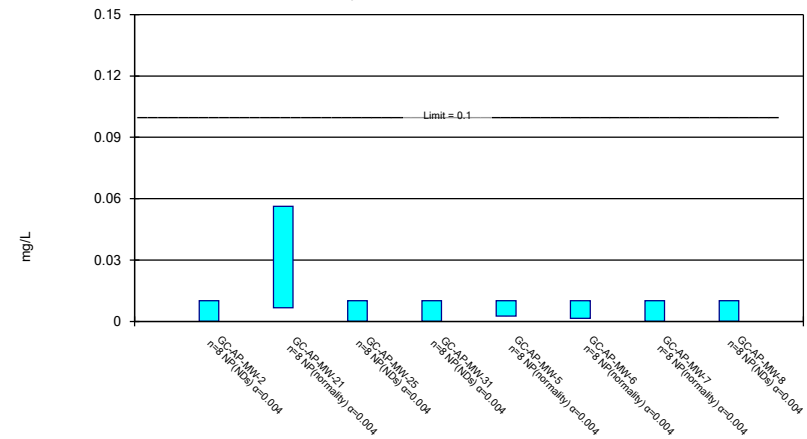
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Non-Parametric Confidence Interval

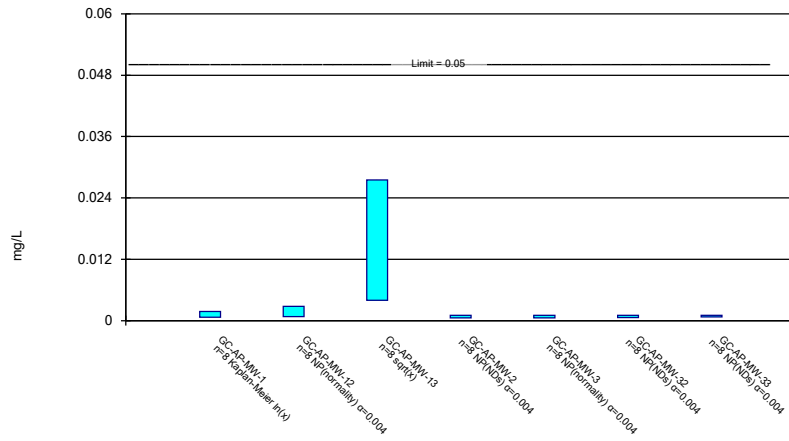
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

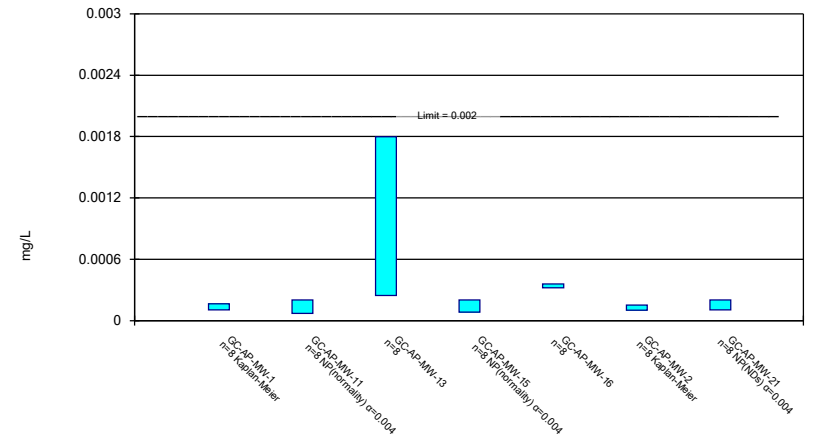
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

### Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 1/1/2024 5:09 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-7
4/20/2020		0.00338	
4/21/2020	<0.001015		<0.001015
8/18/2020	<0.001015	0.00388	
8/19/2020			<0.001015
3/9/2021			<0.001015
3/10/2021	<0.001015		
3/15/2021		0.0016	
8/24/2021			0.00075 (J)
8/25/2021	<0.001015	0.00263	
3/29/2022	<0.001015		0.00066 (J)
4/6/2022		0.002	
10/17/2022	<0.001015	0.002	
10/18/2022			<0.001015
5/30/2023	<0.001015		<0.001015
5/31/2023		0.00192	
10/25/2023	0.000815 (J)	0.00161	<0.001015
Mean	0.00099	0.002378	0.0009375
Std. Dev.	7.071E-05	0.0008463	0.0001455
Upper Lim.	0.001015	0.003242	0.001015
Lower Lim.	0.000815	0.001547	0.00066

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
4/20/2020					0.00181 (J)		<0.000203	0.105	
4/21/2020	0.0219			<0.000203		0.0178			0.689
4/22/2020		0.0121	0.00616						
8/11/2020						0.0207		0.0698	0.581
8/12/2020							<0.000203		
8/17/2020	0.0265								
8/18/2020		0.0121	0.00457 (J)	<0.000203	0.00176 (J)				
3/9/2021						0.0292		0.113	0.86
3/10/2021			0.00317	0.000251			0.000349		
3/15/2021		0.0125			0.00207				
3/16/2021	0.0238								
8/17/2021	0.0206							0.0765	0.937
8/24/2021		0.0129							
8/25/2021			0.00518	0.00023	0.00302	0.0224	0.00046		
3/29/2022				0.00023			0.00032		
3/30/2022			0.00097						
4/4/2022	0.0164	0.0117				0.0241			0.861
4/6/2022					0.00261			0.078	
10/5/2022	0.0152								
10/17/2022			0.00251	0.000335	0.00397				
10/18/2022		0.0117				0.0269	0.000379	0.0653	0.897
5/16/2023	0.012								
5/17/2023			0.00314						1.06
5/23/2023							0.000389		
5/24/2023		0.0123				0.0277			
5/30/2023				0.00029					
5/31/2023					0.00639			0.0855	
10/23/2023									0.895
10/24/2023	0.0152						0.000448		
10/25/2023			0.0049	0.000274	0.0195			0.058	
11/1/2023		0.013				0.0298			
Mean	0.01895	0.01229	0.003825	0.000252	0.005141	0.02483	0.0003439	0.08139	0.8475
Std. Dev.	0.004998	0.0004912	0.001681	4.565E-05	0.006	0.004297	9.848E-05	0.01908	0.1485
Upper Lim.	0.02425	0.01281	0.005607	0.0002966	0.0195	0.02938	0.0004415	0.1016	1.005
Lower Lim.	0.01365	0.01177	0.002043	0.0002006	0.00176	0.02027	0.0002462	0.06116	0.6901

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5
4/20/2020					0.00751				
4/21/2020	0.0478	0.013	<0.000203						0.42
4/22/2020				<0.000203		<0.000203	<0.000203	<0.000203	
8/11/2020				<0.000203		<0.000203			
8/12/2020	0.0485						<0.000203	<0.000203	0.415
8/17/2020		0.00768			0.00909				
8/18/2020			<0.000203						
3/9/2021	0.0505								
3/10/2021			0.000216	0.00033					
3/15/2021						0.000111 (J)	0.000142 (J)	<0.000203	
3/16/2021		0.0045			0.0112				0.473
8/17/2021	0.0509	0.00514			0.0119				
8/23/2021						<0.000203	0.00019 (J)	<0.000203	0.368
8/24/2021				0.00028					
8/25/2021			0.00014 (J)						
3/28/2022		0.00381				<0.000203	<0.000203	0.00015 (J)	
3/29/2022				0.00026					
3/30/2022			0.00017 (J)						
4/4/2022									0.432
4/5/2022					0.01				
4/6/2022	0.049								
10/5/2022		0.00331			0.0119	<0.000203	<0.000203	8.1E-05 (J)	
10/17/2022	0.0475		0.000217						0.366
10/18/2022				0.000434					
5/17/2023		0.00431			0.0116				0.405
5/22/2023	0.0491						<0.000203	0.000242	
5/23/2023						<0.000203			
5/30/2023			<0.000203	0.000217					
10/23/2023	0.0517								
10/24/2023		0.00587			0.0121				0.382
10/25/2023			0.000132 (J)						
10/30/2023						<0.000203	<0.000203	0.000169 (J)	
11/1/2023				0.000183 (J)					
Mean	0.04938	0.005953	0.0001855	0.0002638	0.01066	0.0001915	0.0001938	0.0001818	0.4076
Std. Dev.	0.001511	0.003155	3.384E-05	8.429E-05	0.001654	3.253E-05	2.14E-05	4.893E-05	0.03594
Upper Lim.	0.05098	0.008943	0.0001894	0.0003468	0.01229	0.000203	0.000203	0.0002004	0.4457
Lower Lim.	0.04777	0.003127	0.0001154	0.0001707	0.00901	0.000111	0.000142	9.347E-05	0.3695

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
4/21/2020	<0.000203	<0.000203	<0.000203	0.0102
8/18/2020				0.0108
8/19/2020	<0.000203	<0.000203	<0.000203	
3/9/2021	0.000303	0.00015 (J)	0.000248	0.0105
8/24/2021	0.00028	0.0001 (J)	0.00027	0.00695
3/29/2022	0.00013 (J)	8E-05 (J)	0.00015 (J)	0.00316
10/18/2022	0.000182 (J)	0.000148 (J)	0.000261	0.00787
5/30/2023	<0.000203	<0.000203	0.000274	0.0107
10/25/2023	0.000206	0.000362	0.000184 (J)	0.0116
Mean	0.0002138	0.0001811	0.0002241	0.008973
Std. Dev.	5.449E-05	8.703E-05	4.554E-05	0.002832
Upper Lim.	0.000261	0.00024	0.0002682	0.01152
Lower Lim.	0.0001312	5.964E-05	0.000162	0.006499



# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
4/20/2020					0.104		0.0338	0.0921	
4/21/2020	0.0206			0.0325		0.102			0.306
4/22/2020		0.186	0.0967						
8/11/2020						0.0806		0.0948	0.29
8/12/2020							0.0352		
8/17/2020	0.0218								
8/18/2020		0.223	0.0866	0.021	0.199				
3/9/2021						0.125		0.102	0.352
3/10/2021			0.0637	0.0373			0.0365		
3/15/2021		0.261			0.0699				
3/16/2021	0.024								
8/17/2021	0.0211							0.101	0.254
8/24/2021		0.287							
8/25/2021			0.104	0.0323	0.114	0.11	0.0402		
3/29/2022				0.0355			0.0381		
3/30/2022			0.0485						
4/4/2022	0.0235	0.26				0.103			0.27
4/6/2022					0.0701			0.103	
10/5/2022	0.0256								
10/17/2022			0.0611	0.0301	0.119				
10/18/2022		0.248				0.103	0.036	0.103	0.253
5/16/2023	0.0336								
5/17/2023			0.0705						0.291
5/23/2023							0.0433		
5/24/2023		0.269				0.127			
5/30/2023				0.0309					
5/31/2023					0.0536			0.119	
10/23/2023									0.26
10/24/2023	0.0368						0.0399		
10/25/2023			0.0747	0.0223	0.0752			0.126	
11/1/2023		0.259				0.117			
Mean	0.02588	0.2491	0.07573	0.03024	0.1006	0.1085	0.03788	0.1051	0.2845
Std. Dev.	0.006041	0.03129	0.01884	0.005803	0.0462	0.01498	0.00312	0.01159	0.03343
Upper Lim.	0.03184	0.2823	0.0957	0.03639	0.1496	0.1243	0.04118	0.1174	0.3199
Lower Lim.	0.02014	0.216	0.05575	0.02409	0.05163	0.09258	0.03457	0.09283	0.2491

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5
4/20/2020					0.109				
4/21/2020	0.0926	0.0335	0.0763						0.138
4/22/2020				0.11		0.0285	0.0133	0.102	
8/11/2020				0.111		0.0264			
8/12/2020	0.0815						0.0127	0.0601	0.134
8/17/2020		0.0376			0.139				
8/18/2020			0.0517						
3/9/2021	0.0849								
3/10/2021			0.111	0.0797					
3/15/2021						0.0316	0.0692	0.0144	
3/16/2021		0.033			0.159				0.143
8/17/2021	0.0763	0.0347			0.15				
8/23/2021						0.0317	0.0764	0.0141	0.139
8/24/2021				0.0988					
8/25/2021			0.0865						
3/28/2022		0.0301				0.0325	0.0132	0.0773	
3/29/2022				0.0717					
3/30/2022			0.112						
4/4/2022									0.131
4/5/2022					0.145				
4/6/2022	0.0769								
10/5/2022		0.0344			0.138	0.0283	0.0133	0.0665	
10/17/2022	0.07		0.0774						0.134
10/18/2022				0.0704					
5/17/2023		0.0298			0.153				0.136
5/22/2023	0.0709						0.0152	0.102	
5/23/2023						0.0361			
5/30/2023			0.0604	0.0824					
10/23/2023	0.0692								
10/24/2023		0.0373			0.142				0.142
10/25/2023			0.0507						
10/30/2023						0.0372	0.0134	0.0764	
11/1/2023				0.0806					
Mean	0.07779	0.0338	0.07825	0.08808	0.1419	0.03154	0.02834	0.0641	0.1371
Std. Dev.	0.008182	0.002885	0.0241	0.0163	0.0151	0.003778	0.02752	0.03421	0.004155
Upper Lim.	0.08646	0.03686	0.1038	0.1054	0.1579	0.03554	0.0764	0.1004	0.1415
Lower Lim.	0.06912	0.03074	0.0527	0.0708	0.1259	0.02753	0.0127	0.02784	0.1327

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
4/21/2020	0.0728	0.0762	0.116	0.175
8/18/2020				0.165
8/19/2020	0.0784	0.0816	0.119	
3/9/2021	0.0664	0.083	0.15	0.16
8/24/2021	0.0737	0.0782	0.122	0.168
3/29/2022	0.0614	0.0639	0.104	0.139
10/18/2022	0.0619	0.084	0.107	0.147
5/30/2023	0.0665	0.0795	0.136	0.15
10/25/2023	0.0633	0.0645	0.114	0.126
Mean	0.06805	0.07636	0.121	0.1538
Std. Dev.	0.006226	0.00792	0.01526	0.01633
Upper Lim.	0.07465	0.08405	0.1372	0.1711
Lower Lim.	0.06145	0.06848	0.1048	0.1364

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-11	GC-AP-MW-13	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-6
4/20/2020			<0.000203	<0.000203	<0.000203				
4/21/2020	<0.000203					<0.000203	<0.000203		<0.000203
4/22/2020		<0.000203						<0.000203	
8/11/2020					<0.000203			<0.000203	
8/12/2020				<0.000203					
8/17/2020	<0.000203					<0.000203			
8/18/2020		<0.000203	<0.000203				<0.000203		
8/19/2020									<0.000203
3/9/2021					<0.000203				0.00278
3/10/2021		0.000347		0.00012 (J)			7.02E-05 (J)	<0.000203	
3/15/2021			<0.000203						
3/16/2021	<0.000203					0.00013 (J)			
8/17/2021	<0.000203				<0.000203	<0.000203			
8/24/2021								9E-05 (J)	0.00018 (J)
8/25/2021		<0.000203	<0.000203	0.00014 (J)			<0.000203		
3/28/2022						0.00012 (J)			
3/29/2022				0.00046				7E-05 (J)	0.0005
3/30/2022		<0.000203					7E-05 (J)		
4/4/2022	<0.000203								
4/6/2022			8E-05 (J)		<0.000203				
10/5/2022	9.2E-05 (J)					<0.000203			
10/17/2022		<0.000203	0.000145 (J)				0.000102 (J)		
10/18/2022				0.000135 (J)	6.9E-05 (J)			8.3E-05 (J)	<0.000203
5/16/2023	8.9E-05 (J)								
5/17/2023		<0.000203				7.7E-05 (J)			
5/23/2023				0.00019 (J)					
5/30/2023							0.000138 (J)	0.0001 (J)	8.1E-05 (J)
5/31/2023			<0.000203		<0.000203				
10/24/2023	8.9E-05 (J)			0.000123 (J)		<0.000203			
10/25/2023		<0.000203	<0.000203		<0.000203		9.8E-05 (J)		7.6E-05 (J)
11/1/2023								8.9E-05 (J)	
Mean	0.0001606	0.000221	0.0001804	0.0001968	0.0001863	0.0001678	0.0001359	0.0001301	0.0005283
Std. Dev.	5.849E-05	5.091E-05	4.535E-05	0.000112	4.738E-05	5.093E-05	5.947E-05	6.092E-05	0.0009192
Upper Lim.	0.000203	0.000347	0.000203	0.00046	0.000203	0.000203	0.0001213	0.000203	0.00278
Lower Lim.	8.9E-05	0.000203	8E-05	0.00012	6.9E-05	7.7E-05	7.056E-05	7E-05	7.6E-05

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
4/21/2020	<0.000203	<0.000203	<0.000203
8/18/2020			<0.000203
8/19/2020	<0.000203	<0.000203	
3/9/2021	<0.000203	0.000241	<0.000203
8/24/2021	<0.000203	<0.000203	<0.000203
3/29/2022	<0.000203	<0.000203	<0.000203
10/18/2022	<0.000203	<0.000203	<0.000203
5/30/2023	<0.000203	<0.000203	<0.000203
10/25/2023	0.000292	<0.000203	0.000308
Mean	0.0002141	0.0002078	0.0002161
Std. Dev.	3.147E-05	1.344E-05	3.712E-05
Upper Lim.	0.000292	0.000241	0.000308
Lower Lim.	0.000203	0.000203	0.000203

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
4/20/2020					<0.001015		<0.001015	<0.001015	
4/21/2020	<0.001015			<0.001015		<0.001015			<0.001015
4/22/2020		<0.001015	<0.001015						
8/11/2020						<0.001015		<0.001015	<0.001015
8/12/2020							<0.001015		
8/17/2020	<0.001015								
8/18/2020		<0.001015	<0.001015	<0.001015	<0.001015				
3/9/2021						0.000357 (J)		0.000444 (J)	0.000216 (J)
3/10/2021			<0.001015	0.000224 (J)			0.000301 (J)		
3/15/2021		0.000357 (J)			0.000311 (J)				
3/16/2021	0.000341 (J)								
8/17/2021	0.00034 (J)							0.0004 (J)	0.00022 (J)
8/24/2021		0.00036 (J)							
8/25/2021			0.00027 (J)	0.00035 (J)	0.00026 (J)	0.00023 (J)	0.00027 (J)		
3/29/2022				0.00043 (J)			<0.001015		
3/30/2022			0.00023 (J)						
4/4/2022	0.00045 (J)	<0.001015				0.00025 (J)			0.00022 (J)
4/6/2022					0.0003 (J)			0.00034 (J)	
10/5/2022	0.000287 (J)								
10/17/2022			0.000286 (J)	0.000332 (J)	0.000237 (J)				
10/18/2022		0.000217 (J)				<0.001015	<0.001015	0.000267 (J)	0.000211 (J)
5/16/2023	0.000326 (J)								
5/17/2023			0.000293 (J)						0.0003 (J)
5/23/2023							<0.001015		
5/24/2023		0.000338 (J)				0.000305 (J)			
5/30/2023				<0.001015					
5/31/2023					0.000232 (J)			0.000327 (J)	
10/23/2023									<0.001015
10/24/2023	0.000481 (J)						<0.001015		
10/25/2023			<0.001015	<0.001015	<0.001015			<0.001015	
11/1/2023		0.000231 (J)				<0.001015			
Mean	0.0005319	0.0005685	0.0006424	0.0006745	0.0005481	0.0006503	0.0008326	0.0006029	0.0005265
Std. Dev.	0.0003051	0.0003736	0.0003988	0.0003682	0.0003876	0.0003917	0.0003378	0.0003452	0.0004055
Upper Lim.	0.001015	0.001015	0.001015	0.001015	0.001015	0.001015	0.001015	0.001015	0.001015
Lower Lim.	0.000287	0.000217	0.00023	0.000224	0.000232	0.00023	0.00027	0.000267	0.000211

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5
4/20/2020					<0.001015				
4/21/2020	<0.001015	<0.001015	<0.001015						<0.001015
4/22/2020				<0.001015		<0.001015	<0.001015	<0.001015	
8/11/2020				<0.001015		<0.001015			
8/12/2020	<0.001015						<0.001015	<0.001015	<0.001015
8/17/2020		<0.001015			<0.001015				
8/18/2020			<0.001015						
3/9/2021	0.000346 (J)								
3/10/2021			0.000333 (J)	0.0003 (J)					
3/15/2021						0.000468 (J)	0.000431 (J)	0.000679 (J)	
3/16/2021		0.0004 (J)			0.000347 (J)				0.000285 (J)
8/17/2021	0.00023 (J)	0.00267			0.00032 (J)				
8/23/2021						0.00042 (J)	0.00038 (J)	0.0005 (J)	0.00027 (J)
8/24/2021				0.00028 (J)					
8/25/2021			0.00027 (J)						
3/28/2022		0.0003 (J)				0.00039 (J)	0.00042 (J)	0.00044 (J)	
3/29/2022				0.00041 (J)					
3/30/2022			0.00022 (J)						
4/4/2022									0.00025 (J)
4/5/2022					0.00039 (J)				
4/6/2022	0.00031 (J)								
10/5/2022		0.000256 (J)			0.000286 (J)	0.000268 (J)	0.000301 (J)	0.000311 (J)	
10/17/2022	0.000294 (J)		0.00026 (J)						0.000348 (J)
10/18/2022				<0.001015					
5/17/2023		0.000305 (J)			0.000301 (J)				<0.001015
5/22/2023	0.000293 (J)						0.000355 (J)	0.000477 (J)	
5/23/2023						0.000293 (J)			
5/30/2023			0.000232 (J)	0.000249 (J)					
10/23/2023	<0.001015								
10/24/2023		0.000356 (J)			0.000295 (J)				0.00036 (J)
10/25/2023			<0.001015						
10/30/2023						0.000329 (J)	0.000409 (J)	0.000385 (J)	
11/1/2023				0.000214 (J)					
Mean	0.0005648	0.0007896	0.000545	0.0005623	0.0004961	0.0005248	0.0005408	0.0006028	0.0005698
Std. Dev.	0.0003742	0.0008226	0.0003906	0.0003791	0.000322	0.0003096	0.0002956	0.0002754	0.0003705
Upper Lim.	0.001015	0.00267	0.001015	0.001015	0.001015	0.001015	0.001015	0.0005839	0.001015
Lower Lim.	0.00023	0.000256	0.00022	0.000214	0.000286	0.000268	0.000301	0.0003485	0.00025

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
4/21/2020	<0.001015	<0.001015	<0.001015	<0.001015
8/18/2020				<0.001015
8/19/2020	<0.001015	<0.001015	<0.001015	
3/9/2021	0.000347 (J)	0.000351 (J)	0.000346 (J)	0.000381 (J)
8/24/2021	0.00026 (J)	0.00036 (J)	0.00031 (J)	0.0003 (J)
3/29/2022	<0.001015	0.00024 (J)	0.00027 (J)	0.00027 (J)
10/18/2022	0.000228 (J)	0.000297 (J)	0.000217 (J)	0.000238 (J)
5/30/2023	0.000234 (J)	0.000284 (J)	0.000233 (J)	0.000368 (J)
10/25/2023	<0.001015	0.000431 (J)	<0.001015	0.000263 (J)
Mean	0.0006411	0.0004991	0.0005526	0.0004813
Std. Dev.	0.0004013	0.0003235	0.000385	0.0003332
Upper Lim.	0.001015	0.001015	0.001015	0.001015
Lower Lim.	0.000228	0.00024	0.000217	0.000238



# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
4/20/2020					<0.000203		0.0189	0.0146	
4/21/2020	0.206			<0.000203		0.0339			0.0158
4/22/2020		0.0233	0.0319						
8/11/2020						0.0373		0.0148	0.0122
8/12/2020							0.0184		
8/17/2020	0.195								
8/18/2020		0.0287	0.0298	<0.000203	<0.000203				
3/9/2021						0.0302		0.0162	0.0151
3/10/2021			0.0197	0.00118			0.0189		
3/15/2021		0.0475			0.000312				
3/16/2021	0.257								
8/17/2021	0.24							0.0155	0.0109
8/24/2021		0.0514							
8/25/2021			0.0507	0.00094	7E-05 (J)	0.0436	0.0181		
3/29/2022				0.00088			0.0172		
3/30/2022			0.0157						
4/4/2022	0.296	0.0218				0.0423			0.0115
4/6/2022					0.00126			0.0147	
10/5/2022	0.226								
10/17/2022			0.0256	0.00077	0.00424				
10/18/2022		0.0223				0.0349	0.0189	0.0143	0.00934
5/16/2023	0.236								
5/17/2023			0.0296						0.00834
5/23/2023							0.0182		
5/24/2023		0.0176				0.0346			
5/30/2023				0.000536					
5/31/2023					0.00348			0.0136	
10/23/2023									0.00717
10/24/2023	0.202						0.0192		
10/25/2023			0.0349	0.000578	0.0018			0.0135	
11/1/2023		0.0177				0.0308			
Mean	0.2323	0.02879	0.02974	0.0006613	0.001446	0.03595	0.01848	0.01465	0.01129
Std. Dev.	0.03334	0.01326	0.01059	0.0003483	0.00162	0.00489	0.0006453	0.0009024	0.003056
Upper Lim.	0.2676	0.04119	0.04097	0.001007	0.002887	0.04113	0.01916	0.01561	0.01453
Lower Lim.	0.1969	0.01712	0.01851	0.0003159	5.57E-05	0.03077	0.01779	0.01369	0.008055

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5
4/20/2020					0.00396 (J)				
4/21/2020	0.0173	0.0194	<0.000203						0.00601
4/22/2020				0.0133		<0.000203	<0.000203	<0.000203	
8/11/2020				0.0126		<0.000203			
8/12/2020	0.0152						<0.000203	<0.000203	0.00678
8/17/2020		0.0249			<0.000203				
8/18/2020			<0.000203						
3/9/2021	0.017								
3/10/2021			0.00204	0.0115					
3/15/2021						0.000624	0.000908	<0.000203	
3/16/2021		0.0272			0.00076				0.00857
8/17/2021	0.0175	0.0296			0.00039				
8/23/2021						0.0006	0.00105	<0.000203	0.00645
8/24/2021				0.0117					
8/25/2021			0.00147						
3/28/2022		0.0309				0.00061	<0.000203	0.00099	
3/29/2022				0.0101					
3/30/2022			0.00284						
4/4/2022									0.0104
4/5/2022					0.00083				
4/6/2022	0.0183								
10/5/2022		0.0293			0.000297	0.000728	<0.000203	0.000909	
10/17/2022	0.0201		0.00501						0.0062
10/18/2022				0.00995					
5/17/2023		0.0394			0.000658				0.00833
5/22/2023	0.019						<0.000203	0.00117	
5/23/2023						0.000627			
5/30/2023			0.00318	0.016					
10/23/2023	0.022								
10/24/2023		0.0378			0.000413				0.0082
10/25/2023			0.00285						
10/30/2023						0.000715	<0.000203	0.00108	
11/1/2023				0.0116					
Mean	0.0183	0.02981	0.002225	0.01209	0.0009262	0.0005388	0.000397	0.0006201	0.007618
Std. Dev.	0.002083	0.006509	0.001613	0.001938	0.00125	0.0002125	0.0003612	0.000452	0.001519
Upper Lim.	0.02051	0.03671	0.003824	0.01415	0.001654	0.0007063	0.00105	0.00117	0.009228
Lower Lim.	0.01609	0.02291	0.000625	0.01004	0.0001807	0.0004175	0.000203	0.000203	0.006007

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
4/21/2020	0.00228 (J)	0.00206 (J)	0.0111	0.0166
8/18/2020				0.0164
8/19/2020	0.00278 (J)	0.0046 (J)	0.00975	
3/9/2021	0.00367	0.00181	0.00707	0.0247
8/24/2021	0.00419	0.00333	0.00898	0.0323
3/29/2022	0.00223	0.0014	0.00619	0.0267
10/18/2022	0.00233	0.00301	0.00537	0.0297
5/30/2023	0.00194	0.00279	0.00504	0.0258
10/25/2023	0.00284	0.00215	0.00679	0.0238
Mean	0.002783	0.002644	0.007536	0.0245
Std. Dev.	0.0007787	0.00102	0.002178	0.005644
Upper Lim.	0.003608	0.003725	0.009844	0.03048
Lower Lim.	0.001957	0.001563	0.005228	0.01852

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L)    Analysis Run 1/1/2024 5:10 PM    View: Confidence Interval  
 Plant Greene County    Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
4/20/2020					0.256 (U)		0.693	0.493 (U)	
4/21/2020	0.712			-0.0655 (U)		0.653			0.859
4/22/2020		1.11	0.502 (U)						
8/11/2020						1.64		1.48	2.14
8/12/2020							0.983		
8/17/2020	1.46								
8/18/2020		1.08	0.457 (U)	0.135 (U)	0.568 (U)				
3/9/2021						1.28 (U)		1.2 (U)	2.27
3/10/2021			0.666 (U)	0.481 (U)			0.335 (U)		
3/15/2021		1.12 (U)			0.537 (U)				
3/16/2021	1.45								
8/17/2021	1.36							0.49 (U)	1.97
8/24/2021		1.45							
8/25/2021			0.729 (U)	0.113 (U)	0.3 (U)	1.01	0.314 (U)		
3/29/2022				1.37			0.273 (U)		
3/30/2022			0.597 (U)						
4/4/2022	0.899	2.08				1.03			2.17
4/6/2022					0.338 (U)			1 (U)	
10/5/2022	1.12								
10/17/2022			0.175 (U)	0.99 (U)	0.529 (U)				
10/18/2022		1.04				1.25	0.69 (U)	0.772 (U)	1.22
5/16/2023	0.881 (U)								
5/17/2023			0.741 (U)						2.29
5/23/2023							0.723 (U)		
5/24/2023		1.6				1.67			
5/30/2023				1.14					
5/31/2023					0.512 (U)			2	
10/23/2023									1.59
10/24/2023	1.74						0.295 (U)		
10/25/2023			1.2	0.431 (U)	0.343 (U)			0.983 (U)	
11/1/2023		1.79				0.943 (U)			
Mean	1.203	1.409	0.6334	0.5743	0.4229	1.185	0.5383	1.052	1.814
Std. Dev.	0.3554	0.3875	0.2934	0.5305	0.1253	0.3488	0.2673	0.5096	0.5354
Upper Lim.	1.579	1.819	0.9444	1.137	0.5556	1.554	0.983	1.592	2.381
Lower Lim.	0.8261	0.9981	0.3224	0.01197	0.2901	0.8148	0.273	0.5121	1.246

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L)    Analysis Run 1/1/2024 5:10 PM    View: Confidence Interval  
 Plant Greene County    Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5
4/20/2020					0.899				
4/21/2020	0.888	0.663 (U)	0.271 (U)						0.882
4/22/2020				0.218 (U)		0.0983 (U)	0.474 (U)	1.08	
8/11/2020				0.511 (U)		0.767			
8/12/2020	1.17						3.18	3.41	2.08
8/17/2020		0.817			0.738				
8/18/2020			-0.0105 (U)						
3/9/2021	1.11 (U)								
3/10/2021			0.418 (U)	1.03 (U)					
3/15/2021						0.817 (U)	1.11 (U)	0.771 (U)	
3/16/2021		1.05 (U)			0.553 (U)				1.71
8/17/2021	2.04	2.01			1.09				
8/23/2021						0.345 (U)	1.09	1.01 (U)	2.11
8/24/2021				0.693 (U)					
8/25/2021			0.305 (U)						
3/28/2022		0.745 (U)				0.413 (U)	0.682 (U)	1.36	
3/29/2022				0.37 (U)					
3/30/2022			1.04						
4/4/2022									1.13
4/5/2022					0.532 (U)				
4/6/2022	1.18 (U)								
10/5/2022		1.89			0.688 (U)	0.837 (U)	0.467 (U)	1.02	
10/17/2022	0.84 (U)		0.772 (U)						1.93
10/18/2022				0.617 (U)					
5/17/2023		1.32			1.1 (U)				1.25 (U)
5/22/2023	1.48 (U)						0.602 (U)	2.36	
5/23/2023						0.475 (U)			
5/30/2023			0.732 (U)	1.6					
10/23/2023	0.913 (U)								
10/24/2023		1.3			0.618 (U)				1.03 (U)
10/25/2023			0.323 (U)						
10/30/2023						0.654 (U)	0.553 (U)	1.24	
11/1/2023				0.617 (U)					
Mean	1.203	1.224	0.4813	0.707	0.7773	0.5508	1.02	1.531	1.515
Std. Dev.	0.3969	0.5094	0.3393	0.4325	0.2274	0.2624	0.9094	0.898	0.4983
Upper Lim.	1.6	1.764	0.8409	1.165	1.018	0.8289	3.18	2.293	2.043
Lower Lim.	0.8194	0.6844	0.1217	0.2486	0.5362	0.2726	0.467	0.8056	0.9871

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
4/21/2020	0.679 (U)	0.549 (U)	1.09	1.31
8/18/2020				1.59
8/19/2020	0.96	1.04	0.6 (U)	
3/9/2021	1.12 (U)	0.545 (U)	1.6	1.16 (U)
8/24/2021	0.645 (U)	0.865 (U)	1.67	1.43
3/29/2022	0.394 (U)	0.575 (U)	0.621 (U)	1.25
10/18/2022	1.02	1.19	0.741 (U)	1.29
5/30/2023	0.77 (U)	0.777 (U)	1.17	2.26
10/25/2023	0.117 (U)	0.513 (U)	1.02 (U)	1.6
Mean	0.7131	0.7568	1.064	1.486
Std. Dev.	0.3353	0.2565	0.4113	0.35
Upper Lim.	1.069	1.029	1.5	1.832
Lower Lim.	0.3577	0.4849	0.628	1.151

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
4/20/2020					0.0844 (J)		0.14	0.245	
4/21/2020	0.12			0.198		0.254			0.565
4/22/2020		0.224	0.167						
8/11/2020						0.278		0.294	0.515
8/12/2020							0.147		
8/17/2020	0.115								
8/18/2020		0.203	0.165	0.223	0.108				
3/9/2021						0.263		0.286	0.628
3/10/2021			0.0749 (J)	0.161			0.115		
3/15/2021		0.324			0.0737 (J)				
3/16/2021	0.129								
8/17/2021	0.158							0.286	0.494
8/24/2021		0.277							
8/25/2021			0.135	0.188	0.111	0.239	0.167		
3/29/2022				0.107 (J)			0.117 (J)		
3/30/2022			<0.04						
4/4/2022	0.124 (JD)	0.2785 (D)				0.226 (D)			0.5855 (D)
4/6/2022					<0.04			0.2395 (D)	
10/5/2022	0.125								
10/17/2022			0.118 (J)	0.197	<0.04				
10/18/2022		0.248				0.211	0.139	0.27	0.544
5/16/2023	0.144								
5/17/2023			0.157						0.535
5/23/2023							0.144		
5/24/2023		0.303				0.258			
5/30/2023				0.18					
5/31/2023					0.102 (J)			0.284	
10/23/2023									0.515
10/24/2023	0.0372 (J)						0.144		
10/25/2023			0.141	0.165	0.149			0.276	
11/1/2023		0.222				0.256			
Mean	0.119	0.2599	0.1222	0.1774	0.08851	0.2481	0.1391	0.2726	0.5477
Std. Dev.	0.03589	0.04261	0.05108	0.03461	0.03717	0.02158	0.01673	0.02008	0.04371
Upper Lim.	0.15	0.3051	0.1669	0.2141	0.1254	0.271	0.1569	0.2938	0.594
Lower Lim.	0.08993	0.2148	0.08113	0.1407	0.05166	0.2253	0.1214	0.2513	0.5014

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5
4/20/2020					0.112				
4/21/2020	0.171	0.126	0.173						0.224
4/22/2020				<0.04		<0.04	<0.04	<0.04	
8/11/2020				<0.04		<0.04			
8/12/2020	0.198						<0.04	<0.04	0.221
8/17/2020		0.0753 (J)			0.148				
8/18/2020			0.18						
3/9/2021	0.205								
3/10/2021			0.113	0.104					
3/15/2021						<0.04	<0.04	<0.04	
3/16/2021		0.185			0.23				0.282
8/17/2021	0.212	0.0974 (J)			0.184				
8/23/2021						<0.04	<0.04	<0.04	0.322
8/24/2021				0.0914 (J)					
8/25/2021			0.117						
3/28/2022		0.105 (J)				<0.04	<0.04	<0.04	
3/29/2022				0.0724 (J)					
3/30/2022			<0.04						
4/4/2022									0.216
4/5/2022					0.146 (JD)				
4/6/2022	0.1385 (JD)								
10/5/2022		0.124 (J)			0.12 (J)	0.0671 (J)	<0.04	<0.04	
10/17/2022	0.176		0.0988 (J)						0.192
10/18/2022				0.0955 (J)					
5/17/2023		0.0918 (J)			0.147				0.24
5/22/2023	0.186						<0.04	<0.04	
5/23/2023						<0.04			
5/30/2023			0.135	0.0807 (J)					
10/23/2023	0.164								
10/24/2023		0.06			0.166				0.208
10/25/2023			0.0861						
10/30/2023						0.0258 (J)	0.0401	0.064	
11/1/2023				0.0861					
Mean	0.1813	0.1081	0.1154	0.07626	0.1566	0.04161	0.04001	0.043	0.2381
Std. Dev.	0.02411	0.0383	0.05088	0.02429	0.03748	0.01143	3.536E-05	0.008485	0.04306
Upper Lim.	0.2069	0.1487	0.1693	0.1003	0.1964	0.0671	0.0401	0.064	0.2838
Lower Lim.	0.1558	0.06747	0.06144	0.05218	0.1169	0.0258	0.04	0.04	0.1925



# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8	GC-AP-MW-9
4/21/2020	0.218	0.0951 (J)	0.114	0.181
8/18/2020				0.177
8/19/2020	0.223	0.103	0.116	
3/9/2021	0.17	0.0949 (J)	0.109	0.147
8/24/2021	0.161	0.1	0.141	0.164
3/29/2022	0.193	0.104 (J)	0.108 (J)	<0.04
10/18/2022	0.154	0.0649 (J)	0.0981 (J)	0.156
5/30/2023	0.193	0.111 (J)	0.179	0.127
10/25/2023	0.143	0.0713	0.105	0.104
Mean	0.1819	0.09303	0.1213	0.1345
Std. Dev.	0.02954	0.01631	0.02654	0.05285
Upper Lim.	0.2132	0.1103	0.179	0.1793
Lower Lim.	0.1506	0.07574	0.0981	0.09442

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-16	GC-AP-MW-2	GC-AP-MW-25	GC-AP-MW-3	GC-AP-MW-31	GC-AP-MW-32	GC-AP-MW-33	GC-AP-MW-5	GC-AP-MW-7
4/20/2020	<0.000203			<0.000203					
4/21/2020		<0.000203						<0.000203	<0.000203
4/22/2020			<0.000203		<0.000203	<0.000203	<0.000203		
8/11/2020	<0.000203		<0.000203		<0.000203				
8/12/2020						<0.000203	<0.000203	<0.000203	
8/17/2020		<0.000203		<0.000203					
8/19/2020									<0.000203
3/9/2021	0.000109 (J)								<0.000203
3/10/2021			8.84E-05 (J)						
3/15/2021					<0.000203	0.000121 (J)	<0.000203		
3/16/2021		0.000736		<0.000203				<0.000203	
8/17/2021	0.00011 (J)	0.00059		<0.000203					
8/23/2021					<0.000203	0.00015 (J)	<0.000203	<0.000203	
8/24/2021			<0.000203						<0.000203
3/28/2022		0.00066			0.00015 (J)	<0.000203	0.00015 (J)		
3/29/2022			<0.000203						<0.000203
4/4/2022								<0.000203	
4/5/2022				<0.000203					
4/6/2022	9E-05 (J)								
10/5/2022		0.000453		<0.000203	<0.000203	<0.000203	0.000115 (J)		
10/17/2022								<0.000203	
10/18/2022	8.9E-05 (J)		<0.000203						<0.000203
5/17/2023		0.000464		<0.000203				<0.000203	
5/22/2023						<0.000203	0.000193 (J)		
5/23/2023					<0.000203				
5/30/2023			<0.000203						<0.000203
5/31/2023	0.000145 (J)								
10/24/2023		0.000828			9.7E-05 (J)			0.000118 (J)	
10/25/2023	7.1E-05 (J)								0.00036
10/30/2023					<0.000203	<0.000203	0.000181 (J)		
11/1/2023			<0.000203						
Mean	0.0001275	0.0005171	0.0001887	0.0001898	0.0001964	0.0001861	0.0001814	0.0001924	0.0002226
Std. Dev.	5.132E-05	0.0002313	4.052E-05	3.748E-05	1.874E-05	3.219E-05	3.25E-05	3.005E-05	5.551E-05
Upper Lim.	0.0001269	0.0007465	0.000203	0.000203	0.000203	0.000203	0.000203	0.000203	0.00036
Lower Lim.	7.772E-05	0.0002878	8.84E-05	9.7E-05	0.00015	0.000121	0.000115	0.000118	0.000203

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-9
4/21/2020	<0.000203
8/18/2020	<0.000203
3/9/2021	7.84E-05 (J)
8/24/2021	<0.000203
3/29/2022	<0.000203
10/18/2022	<0.000203
5/30/2023	<0.000203
10/25/2023	0.000163 (J)
Mean	0.0001824
Std. Dev.	4.43E-05
Upper Lim.	0.000203
Lower Lim.	7.84E-05

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-17
4/20/2020					0.201		0.604	0.62	
4/21/2020	<0.02			0.166		0.672			0.629
4/22/2020		0.123	0.126						
8/11/2020						0.712		0.599	0.552
8/12/2020							0.594		
8/17/2020	<0.02								
8/18/2020		0.124	0.109	0.0892	0.42				
3/9/2021						0.791		0.692	0.864
3/10/2021			0.0826	0.125			0.63		
3/15/2021		0.155			0.308				
3/16/2021	<0.02								
8/17/2021	<0.02							0.647	0.585
8/24/2021		0.198							
8/25/2021			0.132	0.117	0.5	0.985	0.622		
3/29/2022				0.13			0.534		
3/30/2022			0.0615						
4/4/2022	<0.02	0.329				0.607			0.647
4/6/2022					0.584			0.638	
10/5/2022	<0.02								
10/17/2022			0.0928	0.122	0.764				
10/18/2022		0.241				0.478	0.556	0.594	0.656
5/16/2023	<0.02								
5/17/2023			0.124						0.708
5/23/2023							0.556		
5/24/2023		0.223				0.578			
5/30/2023				0.116					
5/31/2023					0.371			0.603	
10/23/2023									0.655
10/24/2023	0.0081 (J)						0.542		
10/25/2023			0.2	0.0953	0.15			0.552	
11/1/2023		0.152				0.542			
Mean	0.01851	0.1931	0.116	0.1201	0.4123	0.6706	0.5798	0.6181	0.662
Std. Dev.	0.004207	0.07021	0.04166	0.02339	0.2025	0.1609	0.03732	0.04181	0.09438
Upper Lim.	0.02	0.2675	0.1601	0.1449	0.6269	0.8412	0.6193	0.6624	0.762
Lower Lim.	0.0081	0.1187	0.07183	0.09527	0.1976	0.5	0.5402	0.5738	0.562

# Confidence Interval

Constituent: Lithium (mg/L)    Analysis Run 1/1/2024 5:10 PM    View: Confidence Interval  
 Plant Greene County    Data: Greene County AP

	GC-AP-MW-18	GC-AP-MW-21	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-8	GC-AP-MW-9
4/21/2020	0.386	0.0782	0.13	0.0518	0.0582	0.0693
8/12/2020	0.326		0.132			
8/18/2020		0.0718				0.0591
8/19/2020				0.0197 (J)	0.0511	
3/9/2021	0.364			0.013 (J)	0.0249	0.0417
3/10/2021		0.146				
3/16/2021			0.149			
8/17/2021	0.335					
8/23/2021			0.116			
8/24/2021				0.00951 (J)	0.0155 (J)	0.0383
8/25/2021		0.0872				
3/29/2022				<0.02	0.00828 (J)	0.0126 (J)
3/30/2022		0.082				
4/4/2022			0.102			
4/6/2022	0.312					
10/17/2022	0.321	0.0902	0.0901			
10/18/2022				<0.02	<0.02	0.0189 (J)
5/17/2023			0.0817			
5/22/2023	0.286					
5/30/2023		0.0683		<0.02	<0.02	0.0188 (J)
10/23/2023	0.276					
10/24/2023			0.0814			
10/25/2023		0.0599		<0.02	<0.02	0.0121 (J)
Mean	0.3258	0.08545	0.1103	0.02175	0.02725	0.03385
Std. Dev.	0.03673	0.02643	0.02541	0.01279	0.01768	0.02188
Upper Lim.	0.3647	0.1108	0.1372	0.0518	0.04159	0.05704
Lower Lim.	0.2868	0.06108	0.08334	0.00951	0.007572	0.01066

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
Plant Greene County Data: Greene County AP

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	GC-AP-MW-11
4/22/2020	<0.0005
8/18/2020	<0.0005
3/10/2021	<0.0005
8/25/2021	<0.0005
3/30/2022	<0.0005
10/17/2022	<0.0005
5/17/2023	<0.0005
10/25/2023	0.000321 (J)
Mean	0.0004776
Std. Dev.	6.329E-05
Upper Lim.	0.0005
Lower Lim.	0.000321

# Confidence Interval

Constituent: Molybdenum (mg/L)    Analysis Run 1/1/2024 5:10 PM    View: Confidence Interval  
 Plant Greene County    Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-10	GC-AP-MW-11	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-14	GC-AP-MW-16	GC-AP-MW-17	GC-AP-MW-18
4/20/2020					0.0924		<0.01015		
4/21/2020	<0.01015			0.0947		0.0141		0.0694	<0.01015
4/22/2020		0.00747 (J)	0.0147						
8/11/2020						0.0117	<0.01015	0.0506	
8/12/2020									<0.01015
8/17/2020	<0.01015								
8/18/2020		0.00808 (J)	0.0146	0.0938	0.145				
3/9/2021						0.0205	0.000113 (J)	0.067	0.000362
3/10/2021			0.00701	0.0611					
3/15/2021		0.0103			0.0146				
3/16/2021	0.000117 (J)								
8/17/2021	<0.01015						0.00014 (J)	0.0468	0.0004
8/24/2021		0.0132							
8/25/2021			0.0106	0.0547	0.0319	0.0127			
3/29/2022				0.0514					
3/30/2022			0.00425						
4/4/2022	<0.01015	0.0117				0.0166		0.054	
4/6/2022					0.0201		0.00015 (J)		0.00032
10/5/2022	<0.01015								
10/17/2022			0.0119	0.0568	0.0197				0.000305
10/18/2022		0.0075				0.0181	0.000194 (J)	0.0513	
5/16/2023	<0.01015								
5/17/2023			0.017					0.0497	
5/22/2023									<0.01015
5/24/2023		0.00638 (J)				0.0152			
5/30/2023				0.058					
5/31/2023					0.0119		<0.01015		
10/23/2023								0.0426	<0.01015
10/24/2023	<0.01015								
10/25/2023			0.0177	0.0414	0.0269		<0.01015		
11/1/2023		<0.01015				0.0277			
Mean	0.008896	0.008713	0.01222	0.06399	0.04531	0.01708	0.00515	0.05393	0.005248
Std. Dev.	0.003547	0.002769	0.004752	0.01958	0.04785	0.005159	0.005346	0.009451	0.00524
Upper Lim.	0.01015	0.01165	0.01726	0.0839	0.07838	0.02254	0.01015	0.06394	0.01015
Lower Lim.	0.000117	0.005778	0.007183	0.04491	0.01203	0.01161	0.000113	0.04391	0.000305

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-2	GC-AP-MW-21	GC-AP-MW-25	GC-AP-MW-31	GC-AP-MW-5	GC-AP-MW-6	GC-AP-MW-7	GC-AP-MW-8
4/21/2020	<0.01015	0.0562			0.00255 (J)	<0.01015	<0.01015	<0.01015
4/22/2020			<0.01015	<0.01015				
8/11/2020			<0.01015	<0.01015				
8/12/2020					0.00292 (J)			
8/17/2020	<0.01015							
8/18/2020		0.0505						
8/19/2020						<0.01015	<0.01015	<0.01015
3/9/2021						0.0024	0.000156 (J)	8.12E-05 (J)
3/10/2021		0.0123	8.43E-05 (J)					
3/15/2021				7.41E-05 (J)				
3/16/2021	8.04E-05 (J)				0.00358			
8/17/2021	0.00017 (J)							
8/23/2021				<0.01015	0.0031			
8/24/2021			<0.01015			0.00211	0.00013 (J)	<0.01015
8/25/2021		0.00789						
3/28/2022	<0.01015			<0.01015				
3/29/2022			<0.01015			0.00142	0.00016 (J)	<0.01015
3/30/2022		0.00682						
4/4/2022					0.00354			
10/5/2022	<0.01015			<0.01015				
10/17/2022		0.00666			0.00287			
10/18/2022			<0.01015			0.00149	0.00012 (J)	<0.01015
5/17/2023	<0.01015				<0.01015			
5/23/2023				<0.01015				
5/30/2023		<0.01015	<0.01015			<0.01015	<0.01015	<0.01015
10/24/2023	<0.01015				<0.01015			
10/25/2023		<0.01015				<0.01015	<0.01015	<0.01015
10/30/2023				<0.01015				
11/1/2023			<0.01015					
Mean	0.007644	0.02008	0.008892	0.008891	0.004858	0.006003	0.005146	0.008891
Std. Dev.	0.004641	0.02068	0.003559	0.003562	0.003284	0.004445	0.00535	0.00356
Upper Lim.	0.01015	0.0562	0.01015	0.01015	0.01015	0.01015	0.01015	0.01015
Lower Lim.	8.04E-05	0.00666	8.43E-05	7.41E-05	0.00255	0.00142	0.00012	8.12E-05



# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-12	GC-AP-MW-13	GC-AP-MW-2	GC-AP-MW-3	GC-AP-MW-32	GC-AP-MW-33
4/20/2020			0.0125		<0.001015		
4/21/2020	<0.001015	<0.001015		<0.001015			
4/22/2020						<0.001015	<0.001015
8/12/2020						<0.001015	<0.001015
8/17/2020	<0.001015			<0.001015	<0.001015		
8/18/2020		<0.001015	0.00416 (J)				
3/10/2021		<0.001015					
3/15/2021			0.0175			<0.001015	<0.001015
3/16/2021	0.00163			<0.001015	0.000959 (J)		
8/17/2021	0.00209			0.00054 (J)	0.00097 (J)		
8/23/2021						0.00059 (J)	<0.001015
8/25/2021		0.00281	0.00826				
3/28/2022				0.00058 (J)		<0.001015	0.00071 (J)
3/29/2022		<0.001015					
4/4/2022	0.00221						
4/5/2022					0.00074 (J)		
4/6/2022			0.111 (o)				
5/17/2022			0.0452 (R)				
10/5/2022	0.000737 (J)			<0.001015	0.000612 (J)	<0.001015	<0.001015
10/17/2022		0.00081 (J)	0.0103				
5/16/2023	0.000809 (J)						
5/17/2023				<0.001015	0.000551 (J)		
5/22/2023						<0.001015	0.000941 (J)
5/30/2023		0.00122					
5/31/2023			0.0195				
10/24/2023	0.000734 (J)			<0.001015	0.000538 (J)		
10/25/2023		0.00203	0.00397				
10/30/2023						<0.001015	0.000704 (J)
Mean	0.00128	0.001366	0.01517	0.0009013	0.0008	0.0009619	0.0009288
Std. Dev.	0.0006093	0.0006917	0.01337	0.0002109	0.0002125	0.0001503	0.0001392
Upper Lim.	0.001779	0.00281	0.02753	0.001015	0.001015	0.001015	0.001015
Lower Lim.	0.0006601	0.00081	0.003986	0.00054	0.000538	0.00059	0.000704

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 1/1/2024 5:10 PM View: Confidence Interval  
 Plant Greene County Data: Greene County AP

	GC-AP-MW-1	GC-AP-MW-11	GC-AP-MW-13	GC-AP-MW-15	GC-AP-MW-16	GC-AP-MW-2	GC-AP-MW-21
4/20/2020			0.000433 (J)	<0.000203	0.00032 (J)		
4/21/2020	<0.000203					<0.000203	<0.000203
4/22/2020		<0.000203					
8/11/2020					0.000329 (J)		
8/12/2020				<0.000203			
8/17/2020	<0.000203					<0.000203	
8/18/2020		<0.000203	0.00114				<0.000203
3/9/2021					0.000369		
3/10/2021		8.7E-05 (J)		8.78E-05 (J)			0.000106 (J)
3/15/2021			0.000506				
3/16/2021	0.000107 (J)					0.000101 (J)	
8/17/2021	0.00012 (J)				0.00036	0.00013 (J)	
8/25/2021		9E-05 (J)	0.00124	<0.000203			<0.000203
3/28/2022						0.00015 (J)	
3/29/2022				0.00012 (J)			
3/30/2022		7E-05 (J)					0.00011 (J)
4/4/2022	0.00016 (J)						
4/6/2022			0.00169		0.00035		
10/5/2022	0.000149 (J)					0.000158 (J)	
10/17/2022		<0.000203	0.00238				0.00012 (J)
10/18/2022				8.4E-05 (J)	0.000337		
5/16/2023	9.8E-05 (J)						
5/17/2023		7.3E-05 (J)				9.4E-05 (J)	
5/23/2023				8.8E-05 (J)			
5/30/2023							<0.000203
5/31/2023			0.000342		0.000316		
10/24/2023	0.000173 (J)			<0.000203		0.000136 (J)	
10/25/2023		0.0001 (J)	0.000451		0.000339		<0.000203
Mean	0.0001516	0.0001286	0.001023	0.000149	0.00034	0.0001469	0.0001689
Std. Dev.	4.085E-05	6.23E-05	0.0007323	5.879E-05	1.87E-05	4.095E-05	4.725E-05
Upper Lim.	0.000164	0.000203	0.001799	0.000203	0.0003598	0.0001532	0.000203
Lower Lim.	0.000105	7E-05	0.0002466	8.4E-05	0.0003202	0.0001032	0.000106

FIGURE J.

# Trend Tests - Confidence Interval Exceedances - Significant Results

Plant Greene County Client: Southern Company Data: Greene County AP Printed 1/8/2024, 11:42 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GC-AP-MW-14	0.0009141	70	66	Yes	21	0	n/a	n/a	0.05	NP
Arsenic (mg/L)	GC-AP-MW-17	0.1004	150	66	Yes	21	0	n/a	n/a	0.05	NP
Arsenic (mg/L)	GC-AP-MW-18	-0.009656	-141	-66	Yes	21	0	n/a	n/a	0.05	NP
Arsenic (mg/L)	GC-AP-MW-26 (bg)	-0.0002028	-142	-66	Yes	21	42.86	n/a	n/a	0.05	NP
Arsenic (mg/L)	GC-AP-MW-29 (bg)	-0.00003389	-97	-66	Yes	21	66.67	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-1	0.02846	164	66	Yes	21	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-10	0.001025	91	66	Yes	21	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-11	-0.003295	-86	-66	Yes	21	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-14	0.004901	132	66	Yes	21	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-15	0.0005352	100	66	Yes	21	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-2	0.003584	135	66	Yes	21	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-26 (bg)	-0.00164	-122	-66	Yes	21	14.29	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-27 (bg)	-0.00001279	-125	-66	Yes	21	57.14	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-29 (bg)	-0.001728	-143	-66	Yes	21	9.524	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-30 (bg)	-0.00001865	-101	-66	Yes	21	66.67	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-9	0.002348	162	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-10	0.007871	89	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-11	0.006879	70	66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-12	-0.02287	-84	-66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-15	-0.02303	-105	-66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-18	-0.03743	-156	-66	Yes	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-21	-0.02281	-110	-66	Yes	21	0	n/a	n/a	0.05	NP

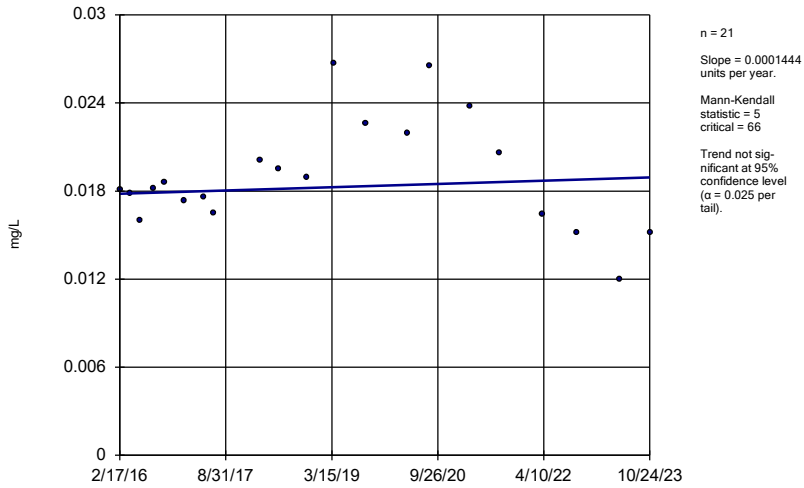
# Trend Tests - Confidence Interval Exceedances - All Results

Plant Greene County    Client: Southern Company    Data: Greene County AP    Printed 1/8/2024, 11:42 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GC-AP-MW-1	0.0001444	5	66	No	21	0	n/a	n/a	0.05	NP
Arsenic (mg/L)	GC-AP-MW-10	-0.0001268	-46	-66	No	21	0	n/a	n/a	0.05	NP
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.0009141</b>	<b>70</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
Arsenic (mg/L)	GC-AP-MW-16	-0.001238	-25	-66	No	21	0	n/a	n/a	0.05	NP
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-17</b>	<b>0.1004</b>	<b>150</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-18</b>	<b>-0.009656</b>	<b>-141</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
Arsenic (mg/L)	GC-AP-MW-23 (bg)	0	-27	-66	No	21	90.48	n/a	n/a	0.05	NP
Arsenic (mg/L)	GC-AP-MW-24 (bg)	0	51	66	No	21	71.43	n/a	n/a	0.05	NP
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-26 (bg)</b>	<b>-0.0002028</b>	<b>-142</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>42.86</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
Arsenic (mg/L)	GC-AP-MW-27 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Arsenic (mg/L)	GC-AP-MW-28 (bg)	0	-12	-66	No	21	95.24	n/a	n/a	0.05	NP
<b>Arsenic (mg/L)</b>	<b>GC-AP-MW-29 (bg)</b>	<b>-0.00003389</b>	<b>-97</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>66.67</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
Arsenic (mg/L)	GC-AP-MW-30 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Arsenic (mg/L)	GC-AP-MW-5	0.006298	51	66	No	21	0	n/a	n/a	0.05	NP
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-1</b>	<b>0.02846</b>	<b>164</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>0.001025</b>	<b>91</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-11</b>	<b>-0.003295</b>	<b>-86</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-14</b>	<b>0.004901</b>	<b>132</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>0.0005352</b>	<b>100</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-2</b>	<b>0.003584</b>	<b>135</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
Cobalt (mg/L)	GC-AP-MW-23 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Cobalt (mg/L)	GC-AP-MW-24 (bg)	0	56	66	No	21	66.67	n/a	n/a	0.05	NP
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-26 (bg)</b>	<b>-0.00164</b>	<b>-122</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>14.29</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-27 (bg)</b>	<b>-0.00001279</b>	<b>-125</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>57.14</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
Cobalt (mg/L)	GC-AP-MW-28 (bg)	-0.0002385	-56	-66	No	21	42.86	n/a	n/a	0.05	NP
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-29 (bg)</b>	<b>-0.001728</b>	<b>-143</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>9.524</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-30 (bg)</b>	<b>-0.00001865</b>	<b>-101</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>66.67</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Cobalt (mg/L)</b>	<b>GC-AP-MW-9</b>	<b>0.002348</b>	<b>162</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-10</b>	<b>0.007871</b>	<b>89</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-11</b>	<b>0.006879</b>	<b>70</b>	<b>66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-12</b>	<b>-0.02287</b>	<b>-84</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
Lithium (mg/L)	GC-AP-MW-13	0.008805	19	66	No	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-14	0.01387	24	66	No	21	0	n/a	n/a	0.05	NP
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-15</b>	<b>-0.02303</b>	<b>-105</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
Lithium (mg/L)	GC-AP-MW-16	0.006227	44	66	No	21	0	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-17	0.002584	10	66	No	21	0	n/a	n/a	0.05	NP
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-18</b>	<b>-0.03743</b>	<b>-156</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
<b>Lithium (mg/L)</b>	<b>GC-AP-MW-21</b>	<b>-0.02281</b>	<b>-110</b>	<b>-66</b>	<b>Yes</b>	<b>21</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.05</b>	<b>NP</b>
Lithium (mg/L)	GC-AP-MW-23 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-24 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-26 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-27 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-28 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-29 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-30 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Lithium (mg/L)	GC-AP-MW-5	0.003057	51	66	No	21	0	n/a	n/a	0.05	NP

### Sen's Slope Estimator

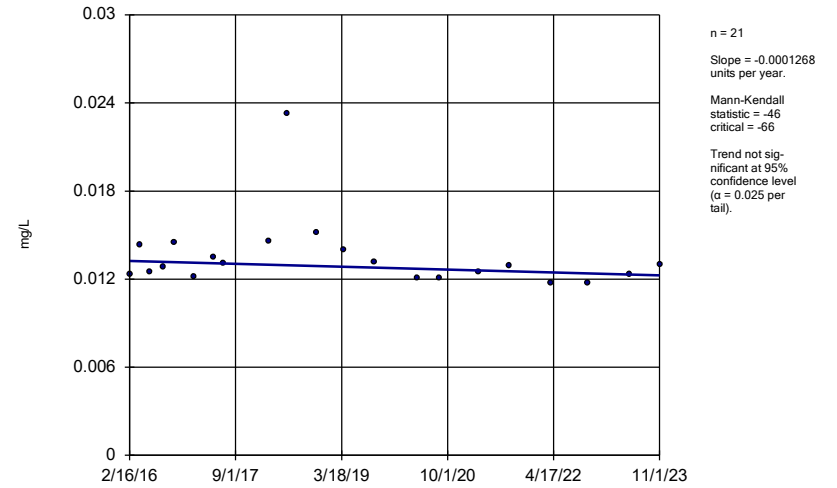
GC-AP-MW-1



Constituent: Arsenic Analysis Run 1/8/2024 11:40 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

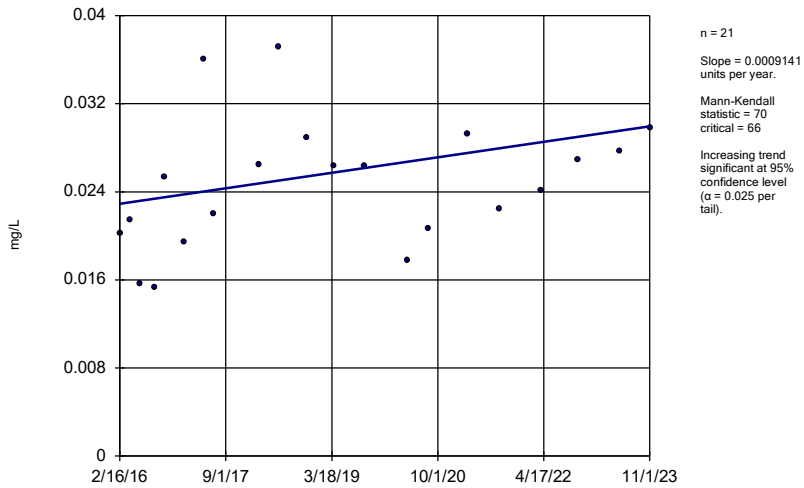
GC-AP-MW-10



Constituent: Arsenic Analysis Run 1/8/2024 11:40 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

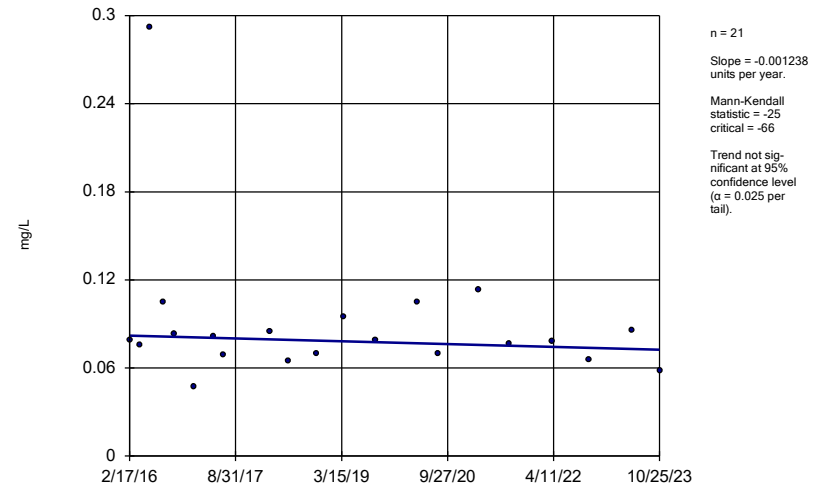
GC-AP-MW-14



Constituent: Arsenic Analysis Run 1/8/2024 11:40 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

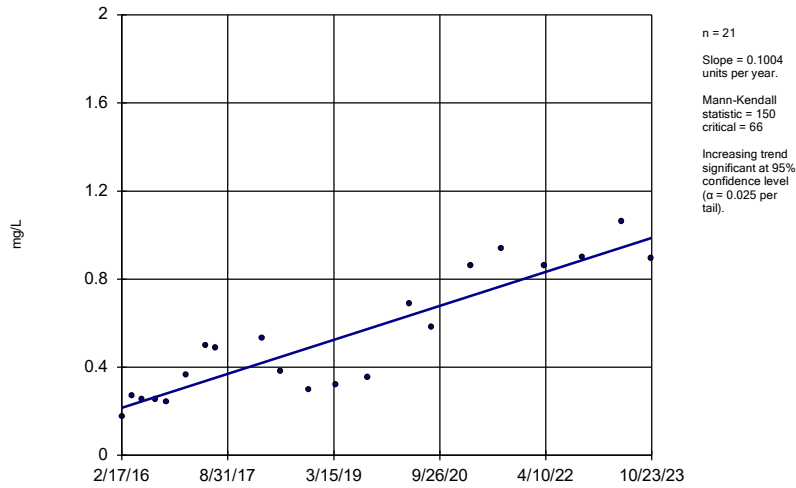
GC-AP-MW-16



Constituent: Arsenic Analysis Run 1/8/2024 11:40 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

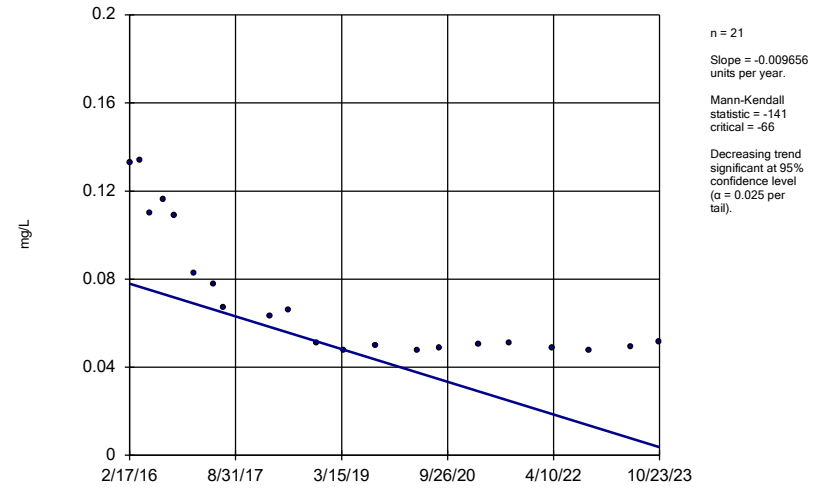
GC-AP-MW-17



Constituent: Arsenic Analysis Run 1/8/2024 11:40 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

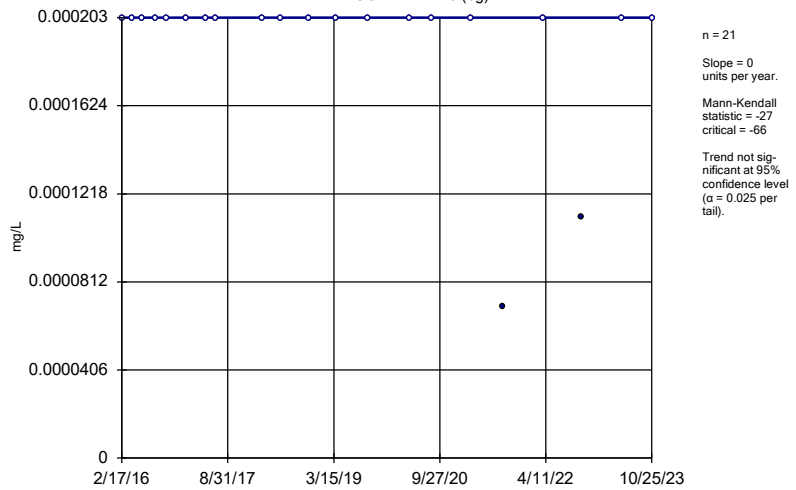
GC-AP-MW-18



Constituent: Arsenic Analysis Run 1/8/2024 11:40 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

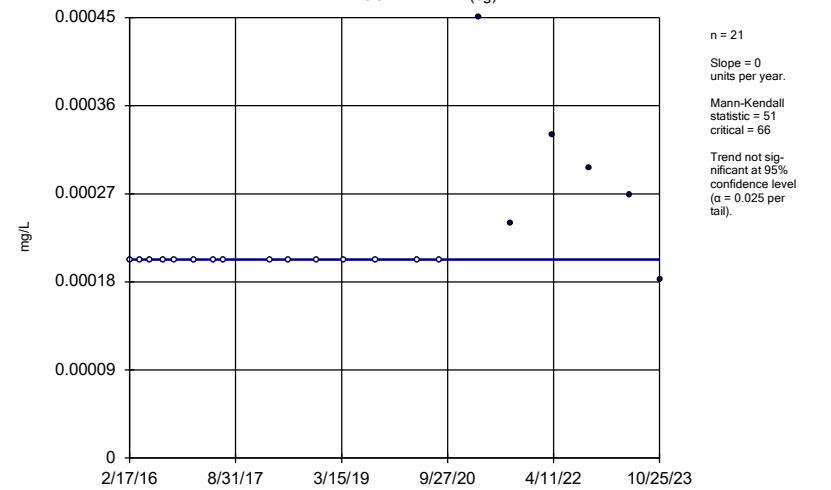
GC-AP-MW-23 (bg)



Constituent: Arsenic Analysis Run 1/8/2024 11:40 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

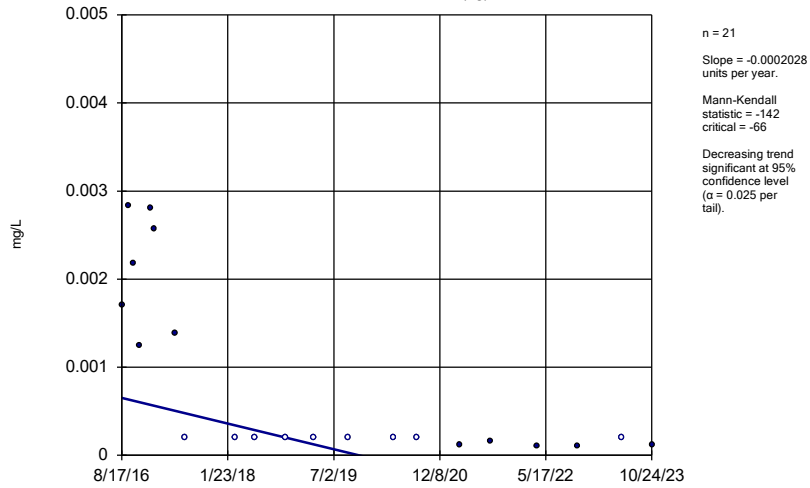
GC-AP-MW-24 (bg)



Constituent: Arsenic Analysis Run 1/8/2024 11:40 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

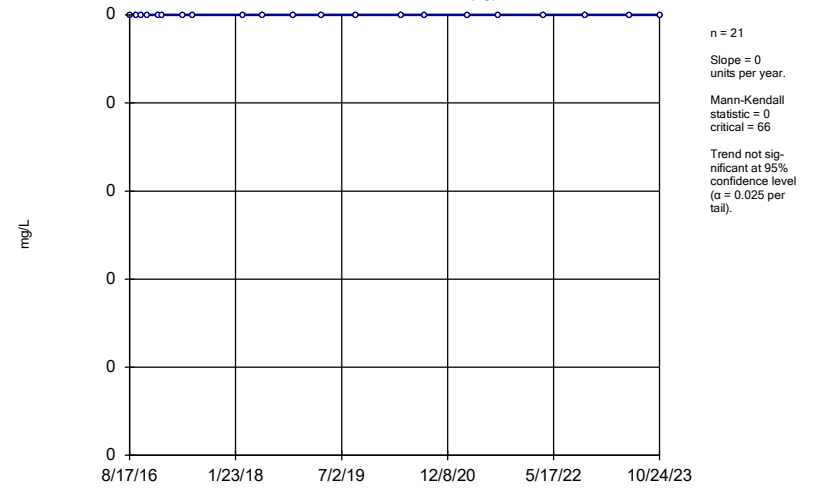
GC-AP-MW-26 (bg)



Constituent: Arsenic Analysis Run 1/8/2024 11:40 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

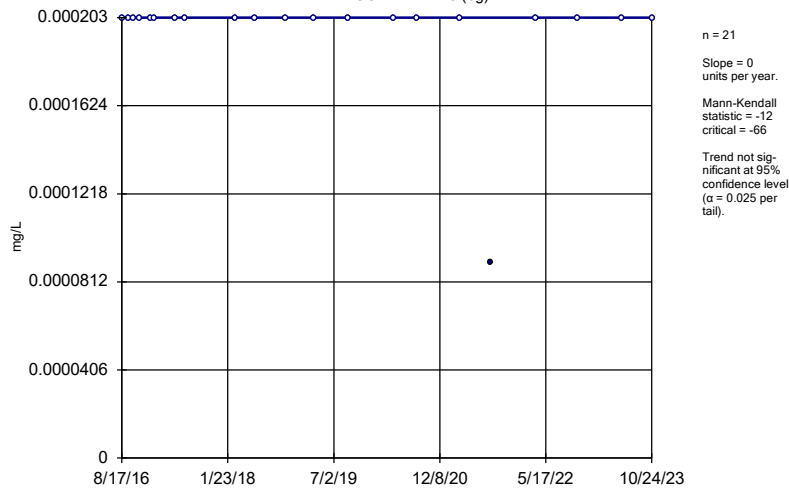
GC-AP-MW-27 (bg)



Constituent: Arsenic Analysis Run 1/8/2024 11:40 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

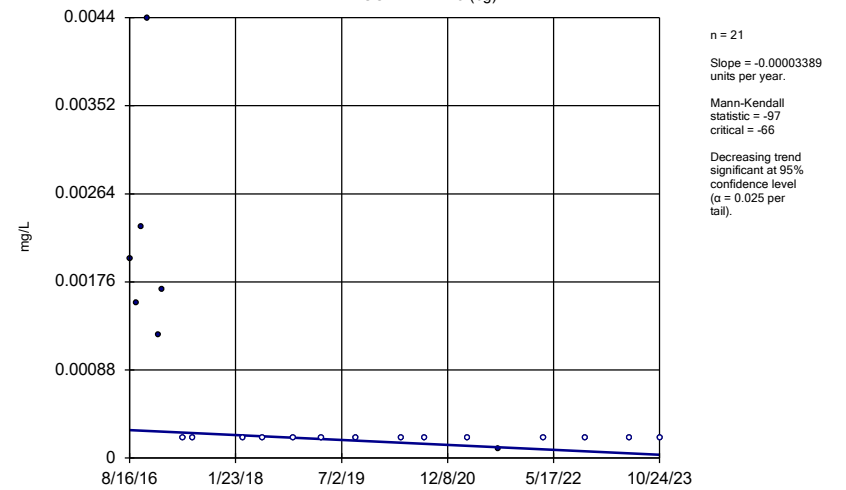
GC-AP-MW-28 (bg)



Constituent: Arsenic Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-29 (bg)

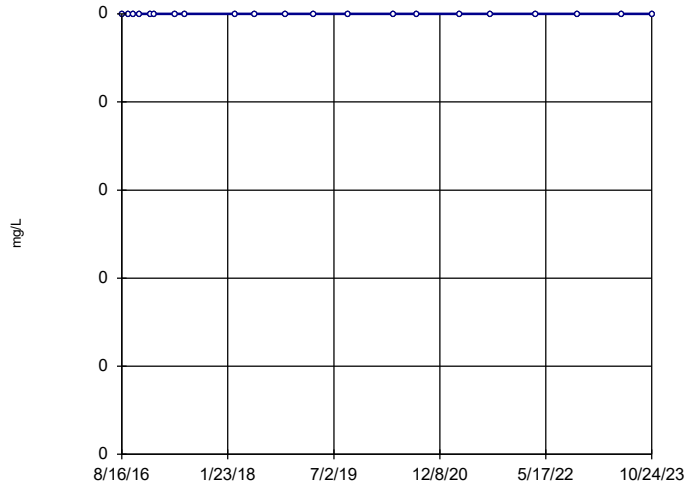


Constituent: Arsenic Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP



### Sen's Slope Estimator

GC-AP-MW-30 (bg)

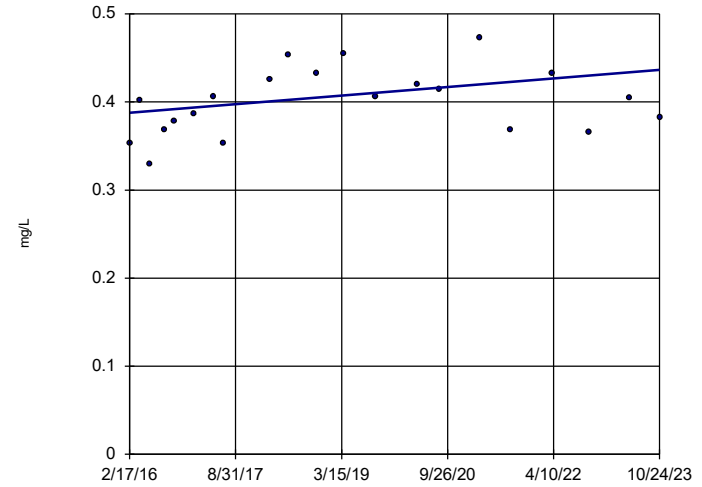


n = 21  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 0  
 critical = 66  
 Trend not sig-  
 nificant at 95%  
 confidence level  
 ( $\alpha = 0.025$  per  
 tail).

Constituent: Arsenic Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-5

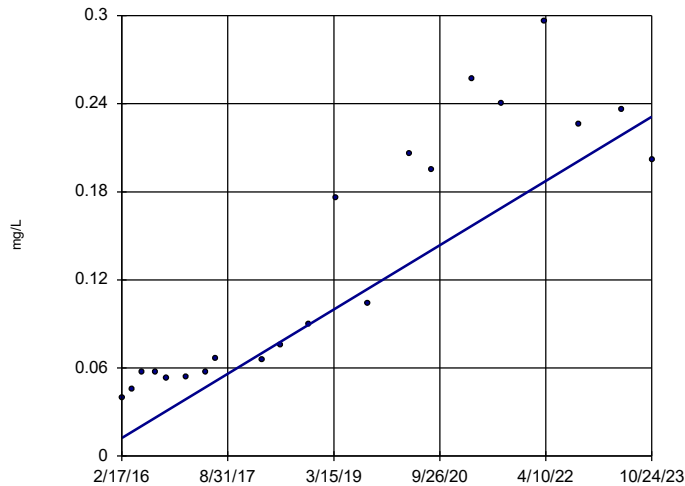


n = 21  
 Slope = 0.006298  
 units per year.  
 Mann-Kendall  
 statistic = 51  
 critical = 66  
 Trend not sig-  
 nificant at 95%  
 confidence level  
 ( $\alpha = 0.025$  per  
 tail).

Constituent: Arsenic Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-1

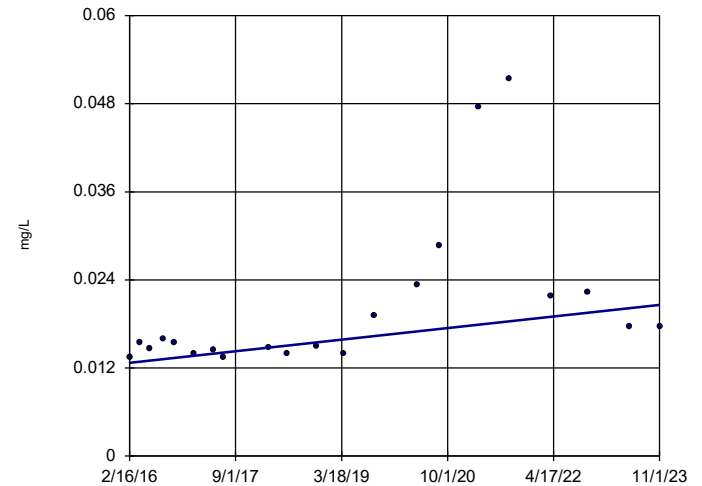


n = 21  
 Slope = 0.02846  
 units per year.  
 Mann-Kendall  
 statistic = 164  
 critical = 66  
 Increasing trend  
 significant at 95%  
 confidence level  
 ( $\alpha = 0.025$  per  
 tail).

Constituent: Cobalt Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-10

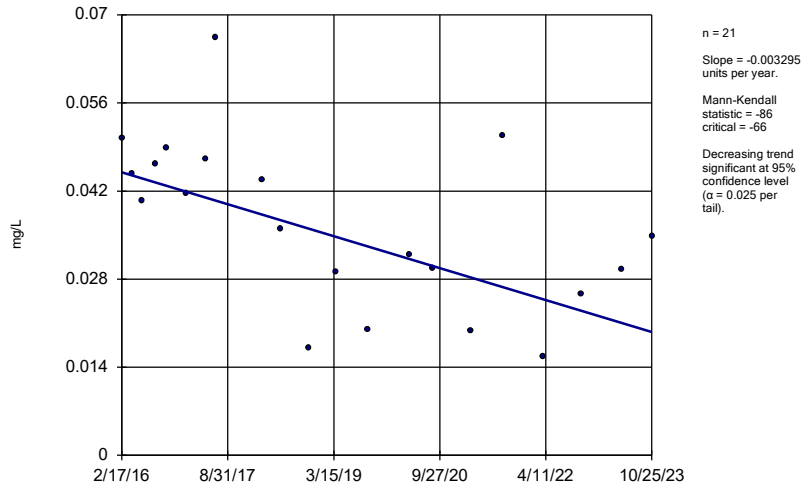


n = 21  
 Slope = 0.001025  
 units per year.  
 Mann-Kendall  
 statistic = 91  
 critical = 66  
 Increasing trend  
 significant at 95%  
 confidence level  
 ( $\alpha = 0.025$  per  
 tail).

Constituent: Cobalt Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

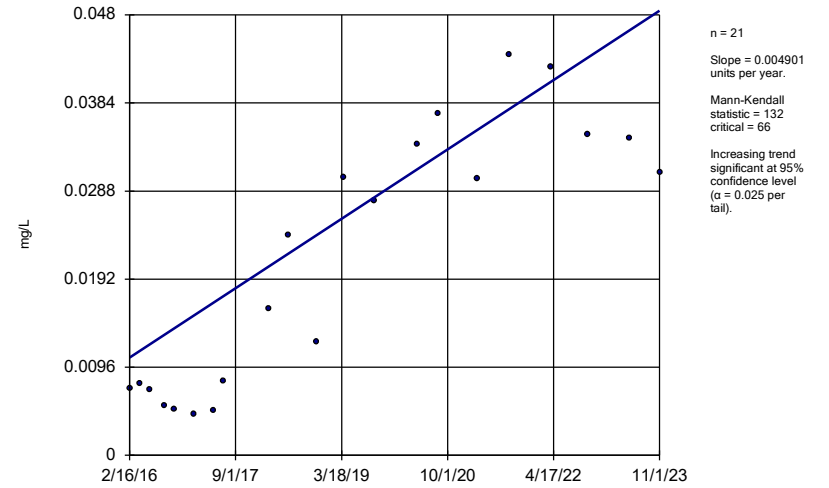
GC-AP-MW-11



Constituent: Cobalt Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

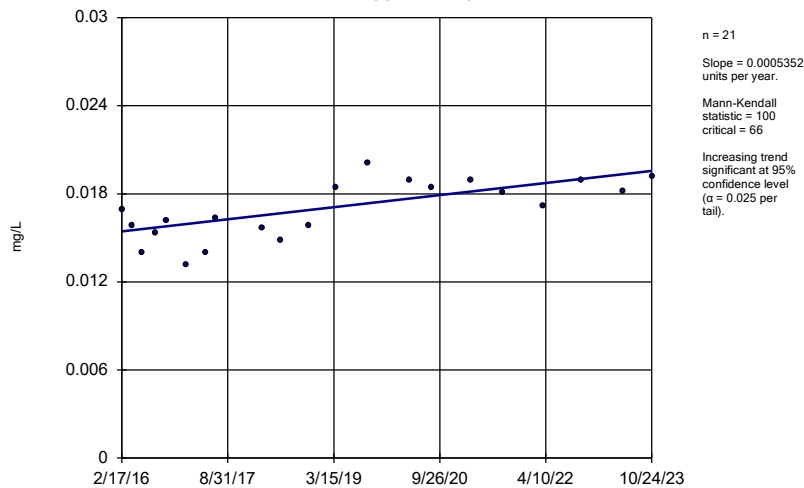
GC-AP-MW-14



Constituent: Cobalt Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

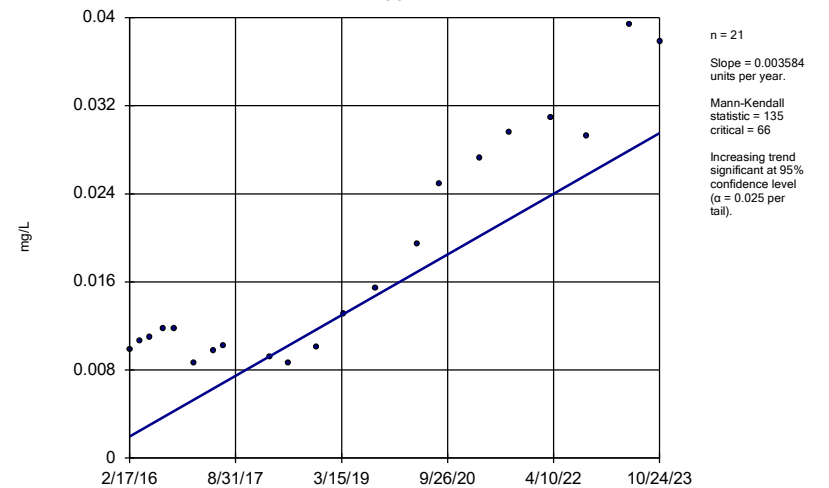
GC-AP-MW-15



Constituent: Cobalt Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

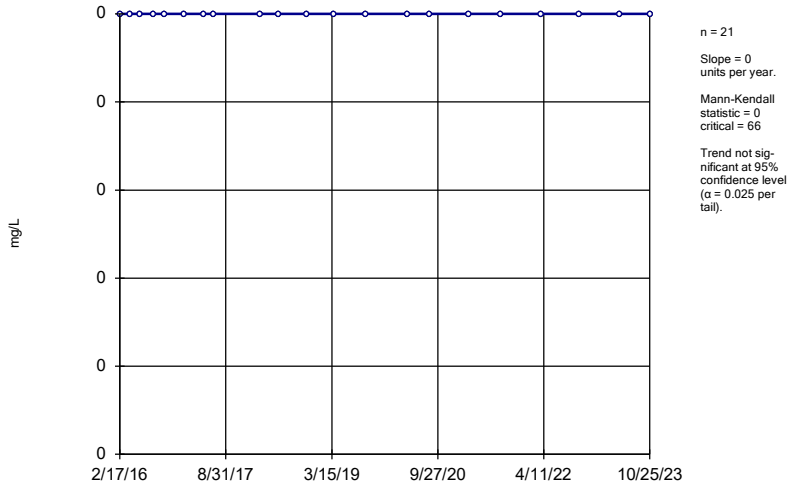
GC-AP-MW-2



Constituent: Cobalt Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

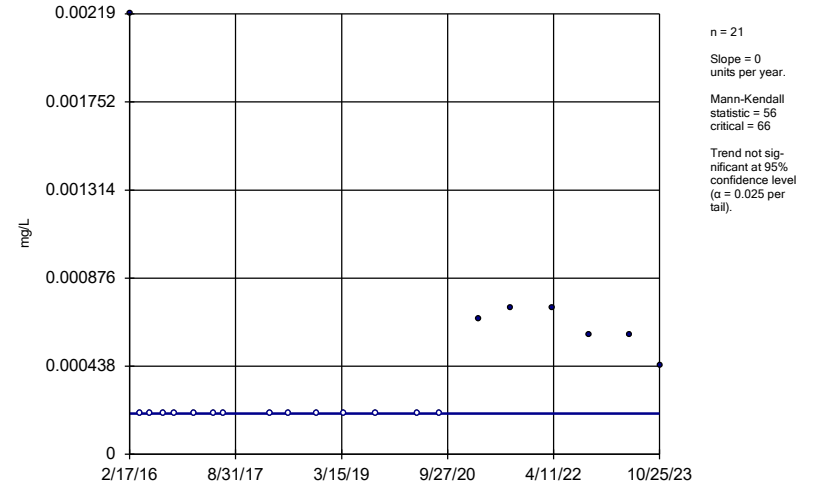
GC-AP-MW-23 (bg)



Constituent: Cobalt Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

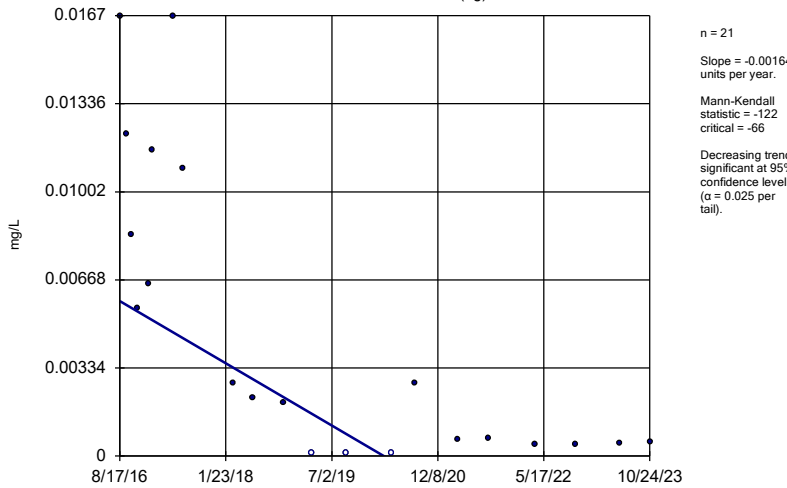
GC-AP-MW-24 (bg)



Constituent: Cobalt Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

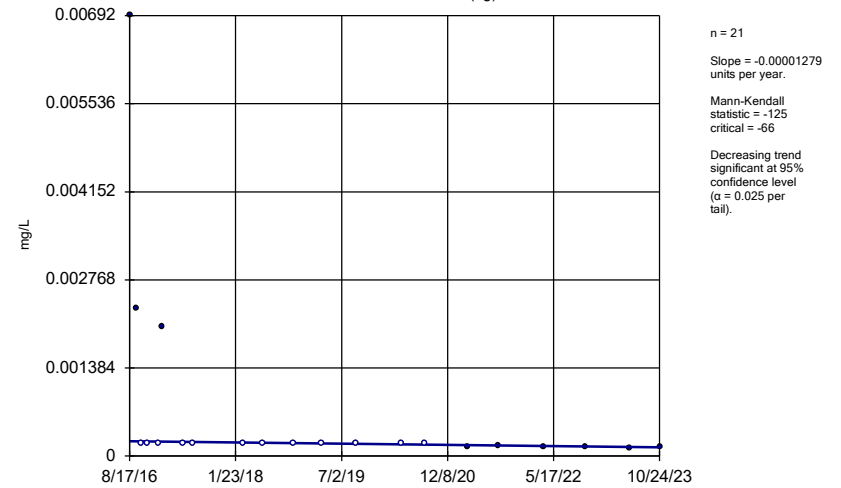
GC-AP-MW-26 (bg)



Constituent: Cobalt Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

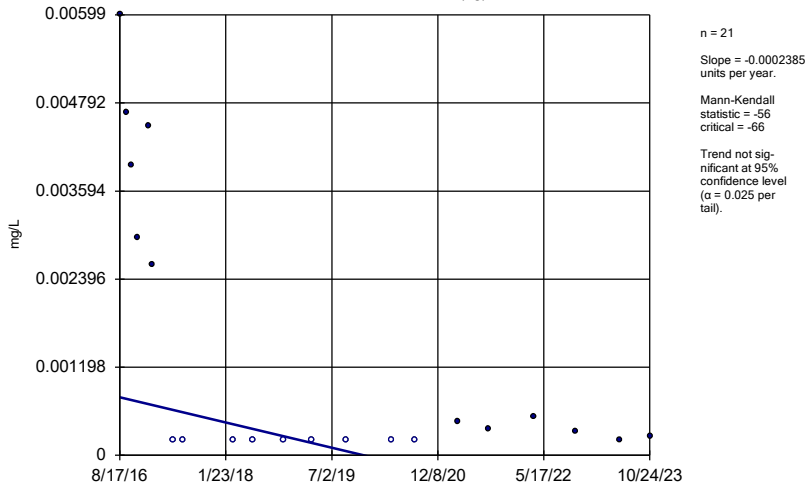
GC-AP-MW-27 (bg)



Constituent: Cobalt Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

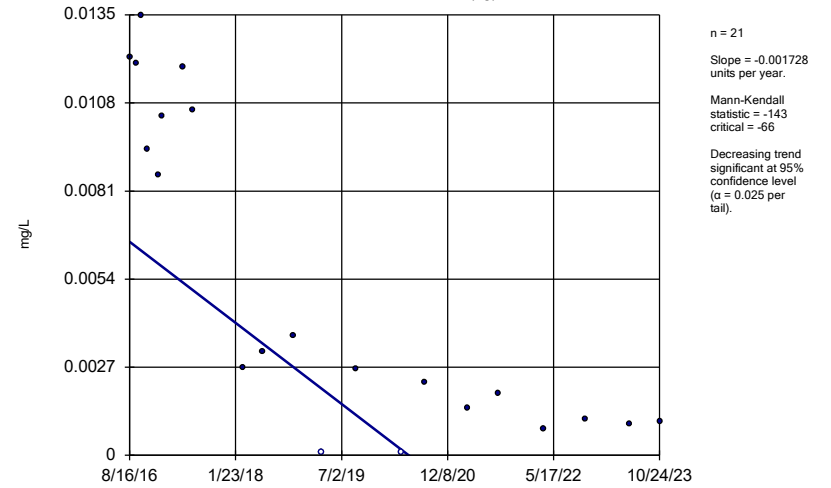
GC-AP-MW-28 (bg)



Constituent: Cobalt Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

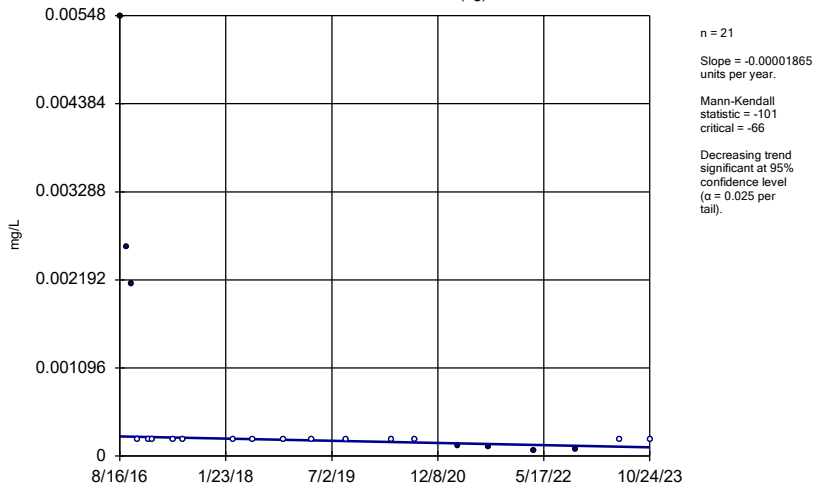
GC-AP-MW-29 (bg)



Constituent: Cobalt Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

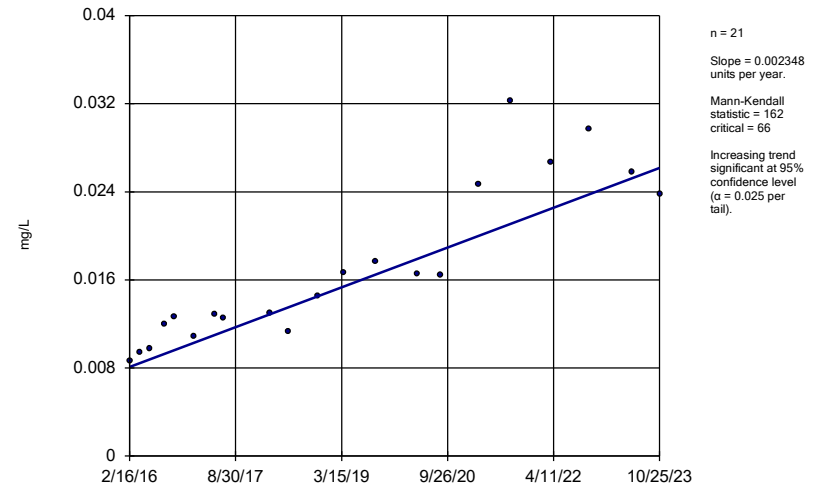
GC-AP-MW-30 (bg)



Constituent: Cobalt Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

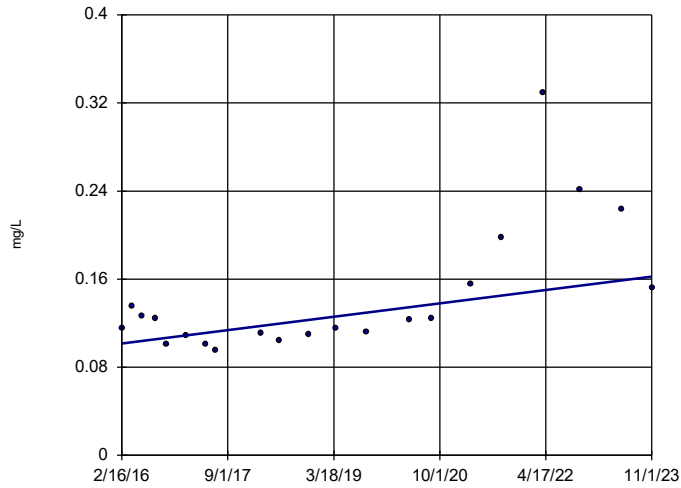
GC-AP-MW-9



Constituent: Cobalt Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-10

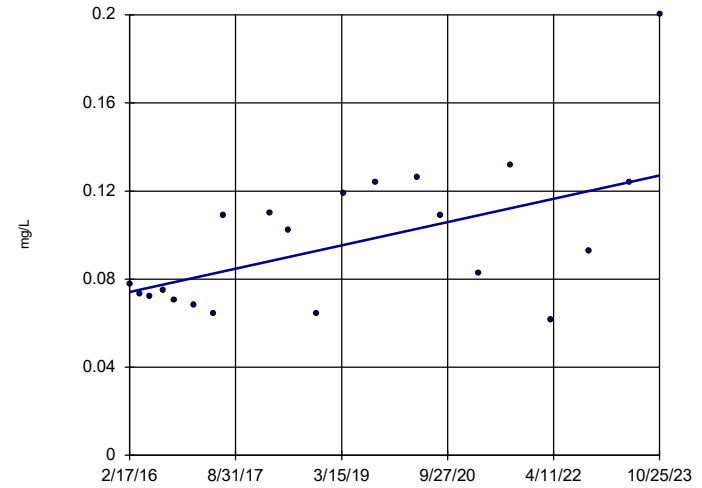


n = 21  
 Slope = 0.007871  
 units per year.  
 Mann-Kendall  
 statistic = 89  
 critical = 66  
 Increasing trend  
 significant at 95%  
 confidence level  
 ( $\alpha = 0.025$  per  
 tail).

Constituent: Lithium Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-11

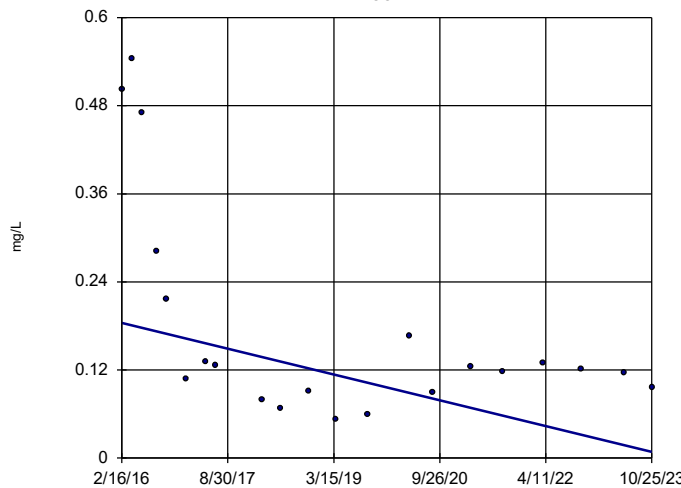


n = 21  
 Slope = 0.006879  
 units per year.  
 Mann-Kendall  
 statistic = 70  
 critical = 66  
 Increasing trend  
 significant at 95%  
 confidence level  
 ( $\alpha = 0.025$  per  
 tail).

Constituent: Lithium Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-12

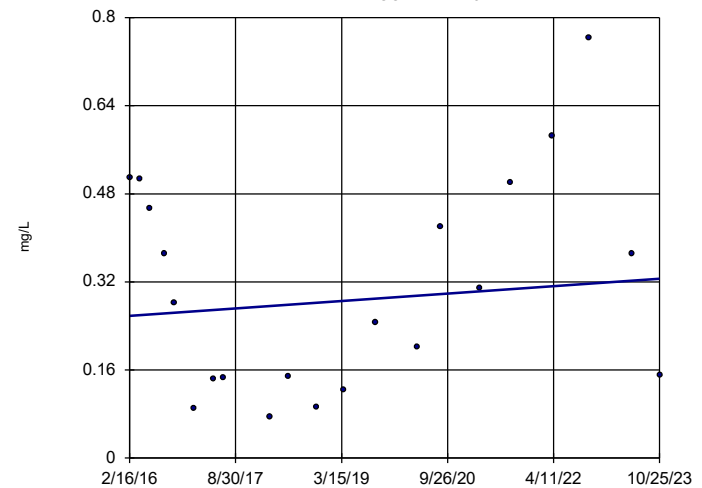


n = 21  
 Slope = -0.02287  
 units per year.  
 Mann-Kendall  
 statistic = -84  
 critical = -66  
 Decreasing trend  
 significant at 95%  
 confidence level  
 ( $\alpha = 0.025$  per  
 tail).

Constituent: Lithium Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-13

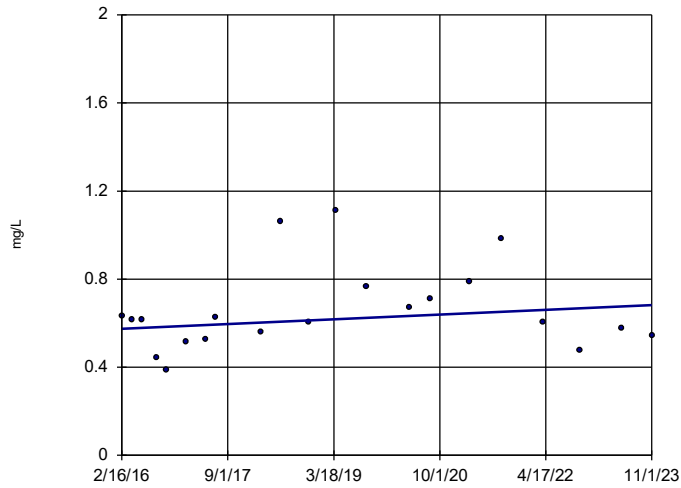


n = 21  
 Slope = 0.008805  
 units per year.  
 Mann-Kendall  
 statistic = 19  
 critical = 66  
 Trend not sig-  
 nificant at 95%  
 confidence level  
 ( $\alpha = 0.025$  per  
 tail).

Constituent: Lithium Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-14

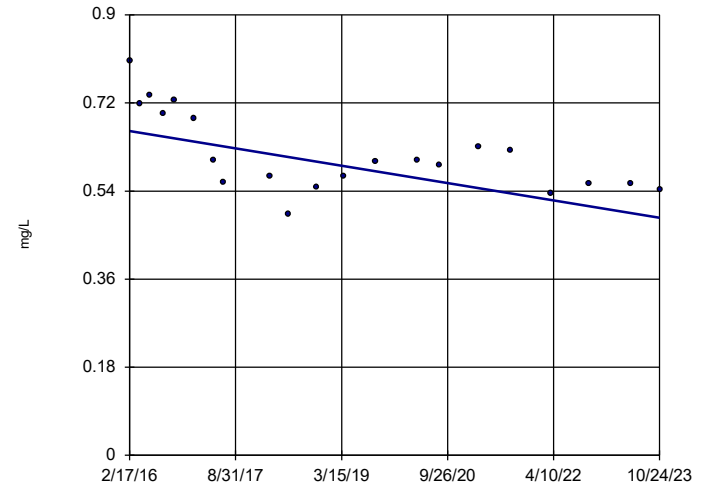


n = 21  
 Slope = 0.01387  
 units per year.  
 Mann-Kendall  
 statistic = 24  
 critical = 66  
 Trend not sig-  
 nificant at 95%  
 confidence level  
 ( $\alpha = 0.025$  per  
 tail).

Constituent: Lithium Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-15

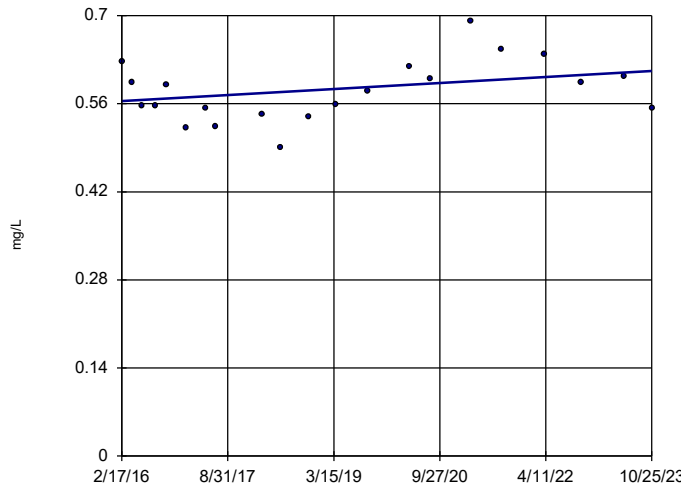


n = 21  
 Slope = -0.02303  
 units per year.  
 Mann-Kendall  
 statistic = -105  
 critical = -66  
 Decreasing trend  
 significant at 95%  
 confidence level  
 ( $\alpha = 0.025$  per  
 tail).

Constituent: Lithium Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-16

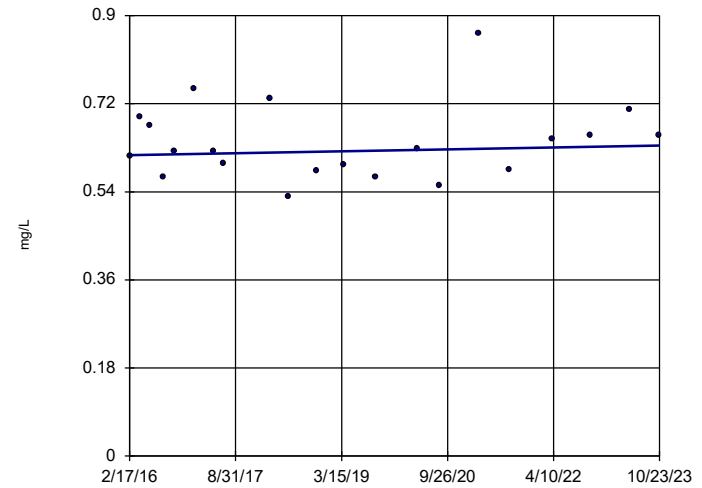


n = 21  
 Slope = 0.006227  
 units per year.  
 Mann-Kendall  
 statistic = 44  
 critical = 66  
 Trend not sig-  
 nificant at 95%  
 confidence level  
 ( $\alpha = 0.025$  per  
 tail).

Constituent: Lithium Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-17

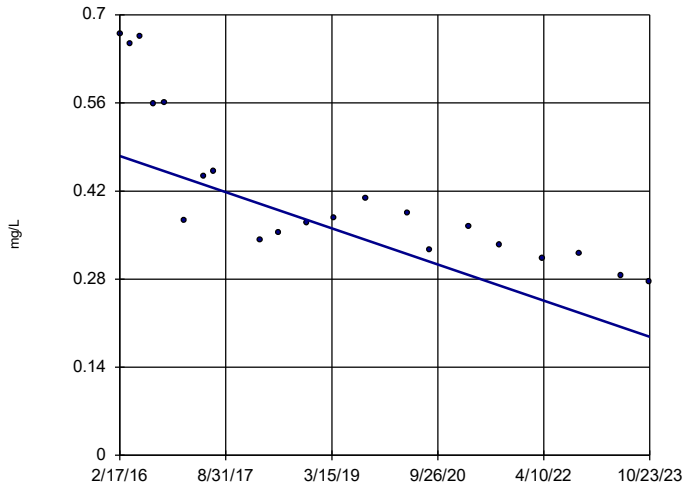


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 Mann-Kendall  
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 critical = 66  
 Trend not sig-  
 nificant at 95%  
 confidence level  
 ( $\alpha = 0.025$  per  
 tail).

Constituent: Lithium Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-18

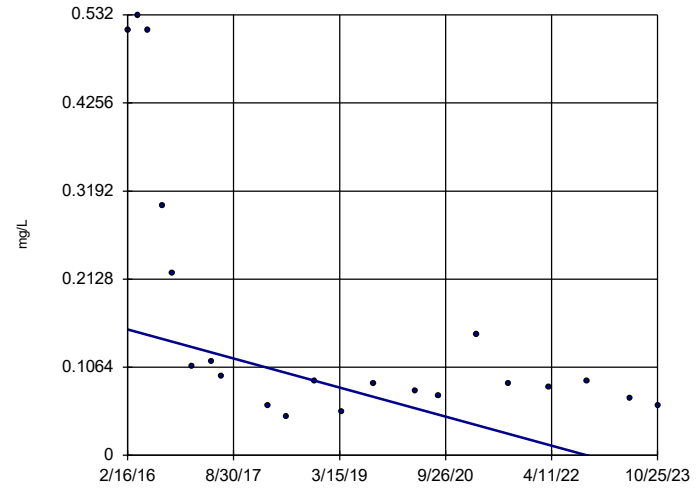


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 Decreasing trend  
 significant at 95%  
 confidence level  
 ( $\alpha = 0.025$  per  
 tail).

Constituent: Lithium Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-21

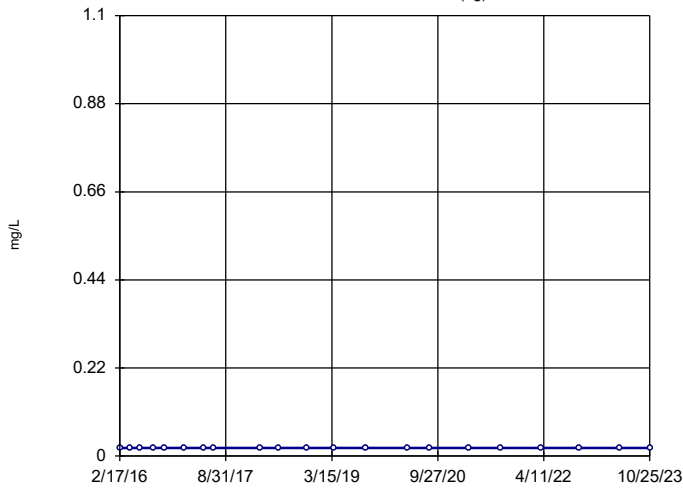


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 confidence level  
 ( $\alpha = 0.025$  per  
 tail).

Constituent: Lithium Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-23 (bg)

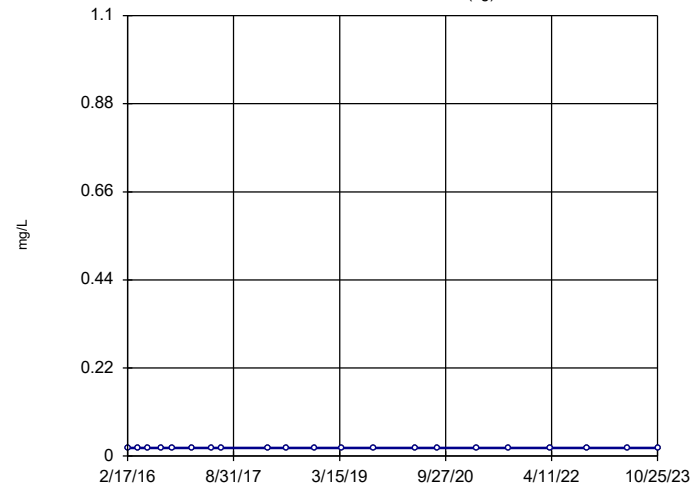


n = 21  
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 units per year.  
 Mann-Kendall  
 statistic = 0  
 critical = 66  
 Trend not sig-  
 nificant at 95%  
 confidence level  
 ( $\alpha = 0.025$  per  
 tail).

Constituent: Lithium Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-24 (bg)

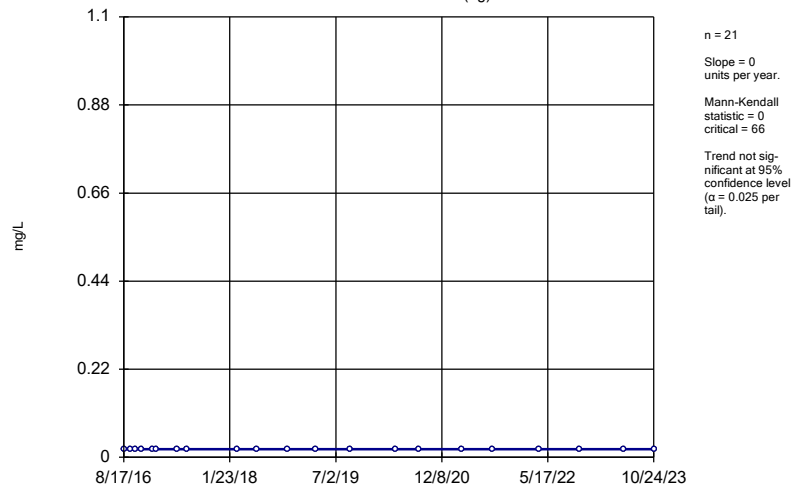


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 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 0  
 critical = 66  
 Trend not sig-  
 nificant at 95%  
 confidence level  
 ( $\alpha = 0.025$  per  
 tail).

Constituent: Lithium Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
 Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

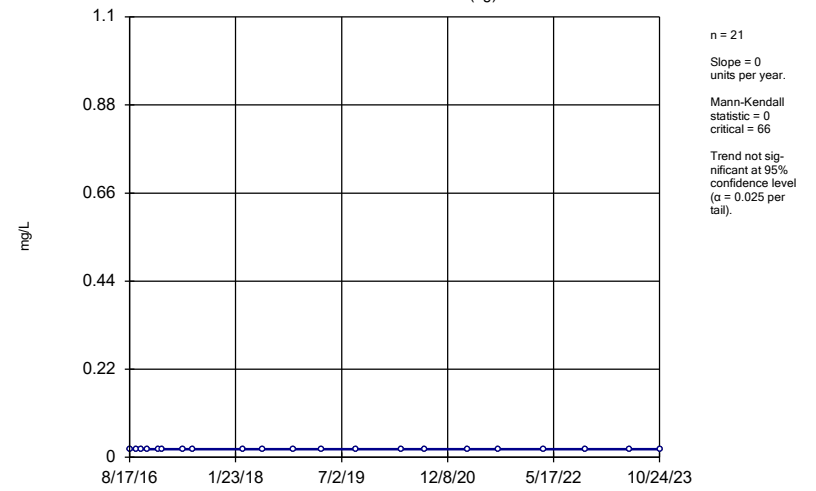
GC-AP-MW-26 (bg)



Constituent: Lithium Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

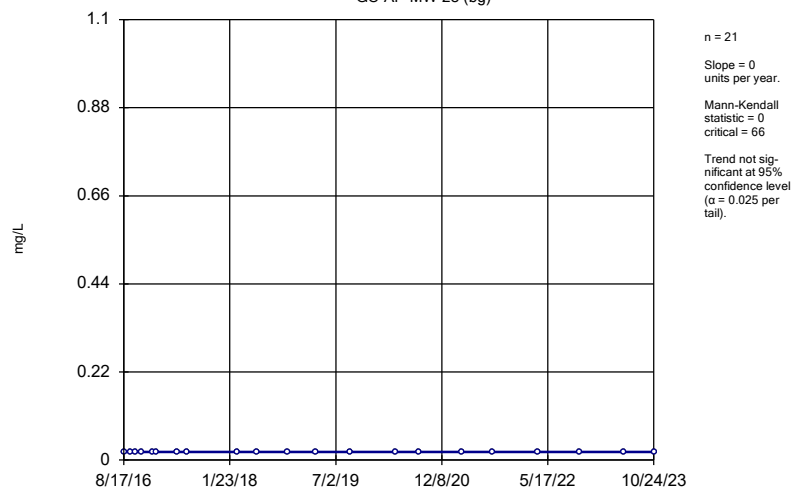
GC-AP-MW-27 (bg)



Constituent: Lithium Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

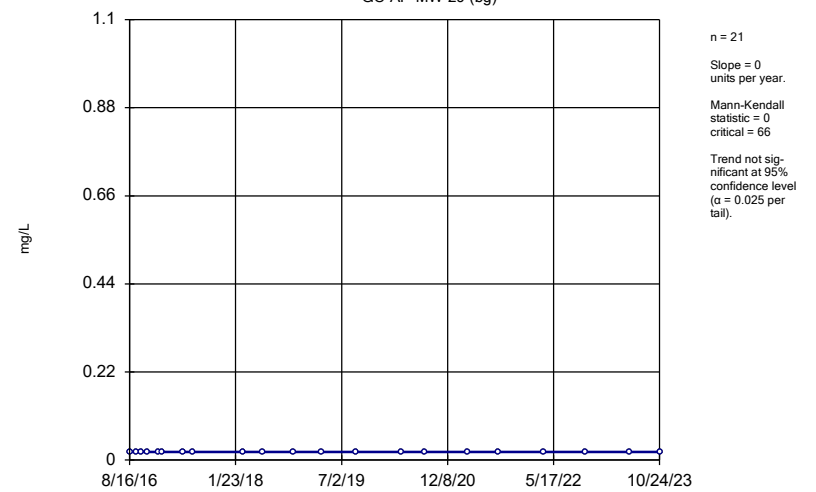
GC-AP-MW-28 (bg)



Constituent: Lithium Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-29 (bg)

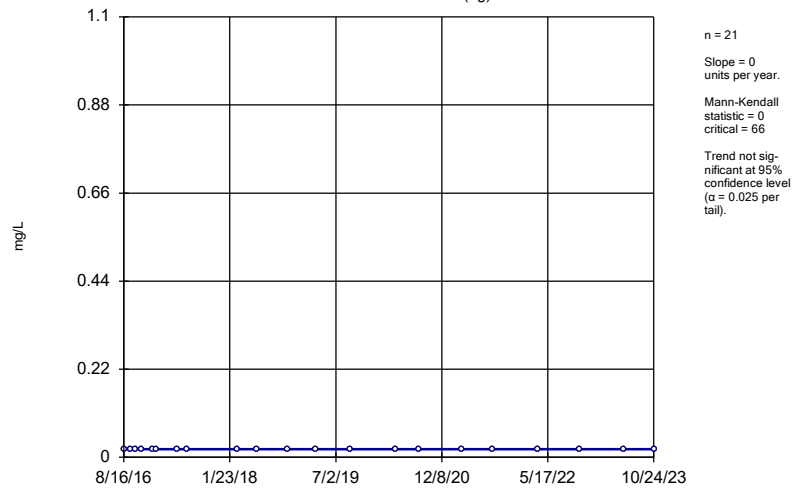


Constituent: Lithium Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP



### Sen's Slope Estimator

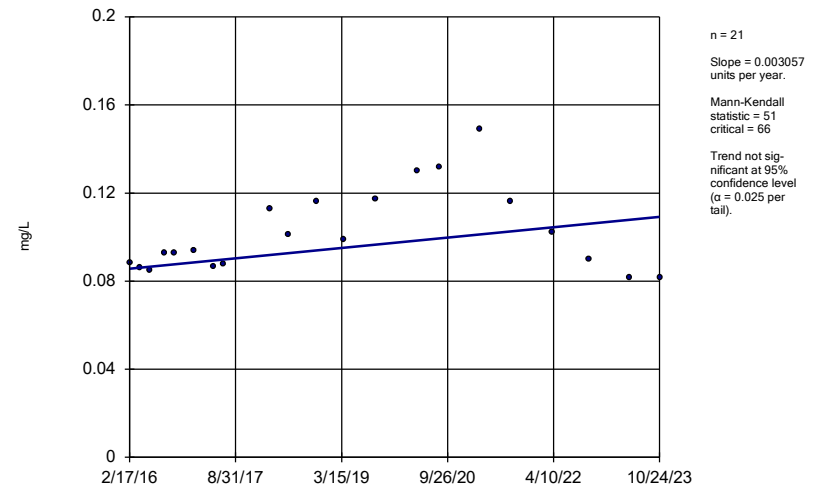
GC-AP-MW-30 (bg)



Constituent: Lithium Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

### Sen's Slope Estimator

GC-AP-MW-5



Constituent: Lithium Analysis Run 1/8/2024 11:41 AM View: Appendix IV Trend Tests  
Plant Greene County Client: Southern Company Data: Greene County AP

# Appendix F



January 2024  
Plant Greene County



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# Supplemental Laboratory Treatability Study Results

Prepared for Alabama Power Company

January 2024  
Plant Greene County

# Supplemental Laboratory Treatability Study Results

**Prepared for**  
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600 18th Street North  
Birmingham, Alabama

**Prepared by**  
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Portland, Oregon 97219

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## **APPENDIX**

Appendix A        Laboratory Analytical Reports

## ABBREVIATIONS

$\mu\text{g}$	microgram
$\mu\text{g/L}$	microgram per liter
APC	Alabama Power Company
cm	centimeter
COI	constituent of interest
DO	dissolved oxygen
EGL	Anchor QEA Environmental Geochemistry Laboratory
$\text{FeCl}_3$	ferric chloride
GWPS	groundwater protection standard
$\text{KMnO}_4$	potassium permanganate
mg/kg	milligram per kilogram
$\text{MgCl}_2$	magnesium chloride
mL	milliliter
$\text{MnCl}_2$	manganese chloride
$\text{N}_2$	nitrogen
$\text{Na}_2\text{HAsO}_4 \cdot 7\text{H}_2\text{O}$	sodium arsenate heptahydrate
$\text{NaAlO}_2$	sodium aluminate
$\text{NaHCO}_3$	sodium bicarbonate
$\text{NaOH}$	sodium hydroxide
ORP	oxidation reduction potential
Plant Greene County	Greene County Electric Generating Plant
PV	pore volume
SC	specific conductivity
Site	Plant Greene County Ash Pond
SSE	selective sequential extraction
USEPA	U.S. Environmental Protection Agency

# 1 Introduction

As discussed in the *Groundwater Remedy Selection Report* (Anchor QEA 2021), geochemical manipulation via injections was selected as one corrective measure for constituents of interest (COIs) at the Greene County Electric Generating Plant (Plant Greene County) Ash Pond (Site), located in Greene County, Alabama. COIs at the Site are arsenic, cobalt, and lithium. Geochemical manipulation removes COIs from groundwater and immobilizes them in situ through the creation of solid precipitates formed from injection of treatment solutions (reagents). COIs adhere to the solid surfaces and are incorporated into the solid structures. Geochemical manipulation was selected because of its effectiveness, ease of implementation, versatility (ability to treat more than one COI), ability to implement in areas with limited working space, and because it produces no byproducts that would require further treatment or disposal. Before geochemical manipulation via injection treatment can be implemented, laboratory treatability studies need to be performed using the Site aquifer media (soil) and impacted groundwater.

Site-specific treatability studies were initially conducted in 2022 to evaluate reagent selection, dosing, and injection sequencing for in situ groundwater remediation. Results of these studies were presented in the *Laboratory Treatability Study Results* (Anchor QEA 2023). Recommendations from the initial laboratory treatability studies include field testing of the most promising reagent mix, ferric chloride ( $\text{FeCl}_3$ ) + manganese chloride ( $\text{MnCl}_2$ ) + magnesium chloride ( $\text{MgCl}_2$ ) solution, followed by sodium aluminate ( $\text{NaAlO}_2$ ) + potassium permanganate ( $\text{KMnO}_4$ ) solution + sodium hydroxide ( $\text{NaOH}$ ) for pH adjustment to 9.5, referred to as Reagent Mix C.

Reagent Mix C requires in situ mixing in the aquifer (i.e., two-solution treatment), which has been implemented in the field in March 2021 and September 2023 by Anchor QEA as part of an Electric Power Research Institute research project. However, supplemental laboratory testing was recommended to simplify field applications where lithium is not present at the Site (i.e., only arsenic and/or cobalt are COIs). Specifically, additional column tests were recommended to evaluate a single-solution  $\text{KMnO}_4$  + sodium bicarbonate ( $\text{NaHCO}_3$ ) treatment for effectiveness in removing arsenic and cobalt from Site groundwater, potential inadvertent Appendix III/IV constituent release from the aquifer matrix, and treatment stability. In 2023, supplemental column studies with  $\text{KMnO}_4$  +  $\text{NaHCO}_3$  treatment were performed on groundwater from two locations, GC-AP-MW-1 and GC-AP-MW-44H. The results of these supplemental column studies are presented in this report.



## 2 Sampling and Initial Characterization

For the 2022 treatability studies, groundwater samples and aquifer soils were collected from the Site for treatability testing conducted at the Anchor QEA Environmental Geochemistry Laboratory (EGL) in Portland, Oregon. Initial soil and groundwater characterization results are presented in the *Laboratory Treatability Study Results* (Anchor QEA 2023). For the 2023 supplemental testing, the soil samples collected for the 2022 treatability studies were used (GC-AP-PT-1 and GC-AP-PT-5). Additional groundwater samples were collected on May 16, 2023, by Alabama Power Company (APC) with support from Anchor QEA from wells GC-AP-MW-1, GC-AP-MW-44H, and upgradient well GC-AP-MW-23 (Figure 1) for supplemental column testing. Initial groundwater characterization results for the additional samples are presented in Table 1.

Prior to sampling, monitoring wells were purged until water quality parameters (pH, temperature, specific conductivity [SC], oxidation reduction potential [ORP], and dissolved oxygen [DO]) stabilized. Then, groundwater samples were collected in low-density polyethylene Cubitainers. Cubitainers were filled with zero headspace and packed in Mylar barrier bags containing oxygen-absorbent packets to minimize potential changes in redox conditions during transport to the EGL. Anaerobic conditions were maintained during groundwater sample handling at the EGL.

Groundwater samples collected in the field were also sent directly to the APC Environmental Laboratory in Calera, Alabama, and Pace Analytical Services, LLC, and analyzed for major cations, anions, COIs, other Appendix III/IV parameters, and water quality parameters influencing the chemical behavior of the COIs (Table 1). Prior to commencing treatability testing at the EGL, groundwater samples in the received Cubitainers were subsampled and submitted to ALS Environmental in Kelso, Washington, for confirmatory analysis of COIs and dissolved iron and manganese concentrations (Table 1). Laboratory analytical reports for groundwater samples submitted by EGL are included in Appendix A. Water quality parameters including pH, ORP, SC, and DO were measured at the EGL and are provided in Table 1.

### 3 Column Tests

Column tests were conducted to simulate injection applications and to evaluate the COI removal performance of aquifer soils treated with selected reagents under flow conditions. Column tests simulate treatment under groundwater flow conditions better than batch tests because they provide information on removal efficiency, capacity, and stability. Column test results can also confirm whether selected reagents will inadvertently increase concentrations of Appendix III/IV constituents above the groundwater protection standard (GWPS), for example, due to release from the aquifer matrix.

#### 3.1 Methodology

The following two supplemental column tests were performed: 1) groundwater from GC-AP-MW-1 was used as the influent for the treated GC-AP-PT-1 (11.0 to 25.0 feet) soil column; and 2) groundwater from GC-AP-MW-44H was used as the influent for the treated GC-AP-PT-5 (12.0 to 22.0 feet) soil column. Aquifer soil samples were paired with the respective groundwater samples based on their sampling location proximity. The pairs of groundwater and aquifer soils used in the supplemental column tests are provided in Table 2; a summary of the column test setup is provided in Table 3.

The initial arsenic concentrations in the Site groundwater samples collected from GC-AP-MW-1 for column testing were approximately equal to the GWPS (10 micrograms per liter [ $\mu\text{g/L}$ ]; Table 1). The groundwater in the GC-AP-MW-1 influent reservoir was, therefore, spiked with arsenic to more effectively evaluate COI removal efficiency, capacity, and stability. An arsenic stock solution was prepared from sodium arsenate heptahydrate ( $\text{Na}_2\text{HAsO}_4 \cdot 7\text{H}_2\text{O}$ ) and added to the influent reservoir of GC-AP-MW-1 to produce influent arsenic concentrations of approximately 2,000  $\mu\text{g/L}$ . This spiked arsenic concentration is higher than historical concentrations, which range from 12 to 27  $\mu\text{g/L}$ , recognizing that, during the column tests, some arsenic would be removed from the aqueous phase due to oxidation of dissolved iron in the groundwater and subsequent sequestration.

Reagent  $\text{KMnO}_4$  + pH buffer  $\text{NaHCO}_3$  was prepared by mixing the reagents in deionized water to create a stock solution. Stock solution  $\text{KMnO}_4$  +  $\text{NaHCO}_3$  (single-solution treatment) was mixed with the aquifer soils to produce  $\text{KMnO}_4$  +  $\text{NaHCO}_3$  treated soils. The dose of  $\text{KMnO}_4$  +  $\text{NaHCO}_3$  was determined by calculating the potassium permanganate required to fully react with soil reductants (soil oxidant demand) and with dissolved iron concentrations in groundwater. Soil oxidant demand was determined using the EGL standard operating procedure adapted from Haselow et al. (2003). Bulk chemical composition data of technical-grade  $\text{KMnO}_4$  and  $\text{NaHCO}_3$  were not collected before the column testing but will be tested prior to field injection. Since other Appendix IV constituents in the aquifer soils were very low (Anchor QEA 2023; Table 3), only dissolved concentrations of arsenic, cobalt, iron, and manganese were analyzed.

The treated soils were packed into 22-centimeter (cm)-long, 4.2-cm-diameter polypropylene columns. The Site groundwater containing the COIs was pumped in an upflow direction through the columns at a constant flow rate of approximately 0.8 milliliter (mL) per minute for 77 to 82 pore volumes (PVs) using a peristaltic pump with a multichannel pump head. Flow rates were regularly checked and adjusted as needed to maintain a constant flow rate. During the column tests, the average flow rate in the effluent samples was 0.72 mL per minute. Table 4 provides a summary of the column test operating conditions. The laboratory column apparatus is shown in Figure 2, and a detailed schematic is provided in Figure 3.

The laboratory column tests were operated at a higher linear velocity (74.8 cm per day) than the expected average groundwater flow conditions in the vicinity of the Site, which is 31.4 cm per day (Appendix D of SCS 2023). As a result, the hydraulic residence time in the columns was shorter than the hydraulic residence time expected in the field, where longer residence times may be expected to result in greater extent of removal. The removal efficiency and capacity measured in the columns, therefore, likely provide conservative estimates of treatment performance in the field.

Column influent and effluent solutions were sampled periodically (two to three times a day for the duration of the column tests), and water quality parameters including pH, ORP, and SC were measured at the EGL. The cumulative flow volume was also recorded at the time of sampling and used to calculate the total number of PVs treated. Column influent and effluent samples were filtered using 0.45-micron polyethersulfone syringe filters and preserved with nitric acid. The samples were submitted to ALS Environmental for analysis of dissolved arsenic and cobalt and treatment reagent constituents, including manganese.

After treatment-phase column studies were complete, Site background groundwater (GC-AP-MW-23) was pumped through the columns to determine the stability/reversibility of treatment. The column flushing phase was run at a constant flow rate for approximately 24 PVs, and column influents and effluents were sampled at intervals. Samples were analyzed for dissolved COIs and constituents of the treatment reagents used (e.g., manganese). These samples were not analyzed for other Appendix III/IV constituents because they were not detected or present at very low levels in Site soils used for the column tests (Anchor QEA 2023; Table 3).

Following completion of the column tests, the treated aquifer soils were recovered from the columns and subjected to a five-step selective sequential extraction (SSE) procedure. In SSE, the treated aquifer soils are extracted by a series of increasingly chemically aggressive solutions that target different binding forms, and the COIs released by each extraction step are quantified. The results are used to determine the mechanisms and strength of binding and inform long-term stability (or reversibility) of the treatment.

## 3.2 Treatment-Phase Column Test Results

Column treatment-phase test results are included in Table 5 and Appendix A. Influent and effluent concentrations of the COIs for the two Site groundwater samples are also shown in Figures 4 and 5. The cumulative COI mass uptake of the two treated soils in the columns is also plotted against the cumulative COI mass loading in Figures 6 and 7 for arsenic and cobalt, respectively.

Arsenic concentrations in the GC-AP-MW-1 influent reservoir were not stable and decreased over time, despite spiking of dissolved arsenic at 2,000 µg/L (Figure 4). Although the influent reservoirs were purged with nitrogen (N<sub>2</sub>) and kept in sealed Mylar bags with oxygen-absorbing packets during the column tests, orange-brown iron oxide precipitates were observed to form inside the influent reservoir over time, likely due to ongoing slow iron oxidation under anaerobic conditions. Dissolved arsenic concentrations in the GC-AP-MW-1 influent reservoir were above the GWPS for the first approximately 70 PVs of column flow (Figure 4). The effluent solution from the GC-AP-MW-1 KMnO<sub>4</sub> + NaHCO<sub>3</sub>-treated soil column contained arsenic concentrations below the GWPS for the duration of the study. The KMnO<sub>4</sub> + NaHCO<sub>3</sub>-treated soil column achieved >99% removal of the influent mass of arsenic through the duration of the column study (approximately 77 PVs) for GC-AP-MW-1. The arsenic uptake capacity of the treated soil was not exhausted and is >5.8 milligrams per kilogram (mg/kg) (Figure 6).

Cobalt concentrations in the GC-AP-MW-1 groundwater reservoir were greater than approximately 230 µg/L for the duration of the column study (Figure 4). In this KMnO<sub>4</sub> + NaHCO<sub>3</sub>-treated soil column, effluent concentrations of cobalt remained below the GWPS for approximately 3 PVs before cobalt breakthrough occurred. Cobalt concentrations in the effluent were equivalent to those in the influent after approximately 10 PVs. The GC-AP-MW-1 KMnO<sub>4</sub> + NaHCO<sub>3</sub>-treated soil column achieved <10% removal of the influent mass of cobalt through the duration of the study (approximately 77 PVs; Figures 4 and 7).

The GC-AP-MW-44H groundwater reservoir maintained influent cobalt concentrations above approximately 240 µg/L for the duration of the column study (Figure 5). This KMnO<sub>4</sub> + NaHCO<sub>3</sub>-treated soil column maintained cobalt concentrations in the effluent below the GWPS for approximately 15 PVs and achieved >81% removal of the influent mass of cobalt through the duration of the study (approximately 80 PVs; Figures 5 and 7). The cobalt uptake capacity of the soil was not exhausted and is >2.9 mg/kg (Figure 7). The KMnO<sub>4</sub> + NaHCO<sub>3</sub> treatment was more effective in removing cobalt from GC-AP-MW-44H groundwater than from GC-AP-MW-1 groundwater because GC-AP-MW-44H had a higher influent pH (approximately 6.4) than GC-AP-MW-1 (approximately 5.8). Likewise, the effluent pH was 5.2 for GC-AP-MW-1 and 6.8 for GC-AP-MW-44H at the end of the treatment phase of the column tests. Cobalt removal by iron and manganese oxides is sensitive to pH and decreases significantly below a pH of 6 to 7.

Overall, the  $\text{KMnO}_4 + \text{NaHCO}_3$  treatment was effective for removed of arsenic from Site groundwater. However, cobalt removal depended on groundwater pH, being effective for weakly acidic groundwater (pH 6.4) and not effective for groundwater with pH <6.

## 4 COI Sequestration and Stability of Treatment

Mechanisms and stability of treatment were assessed by flushing the columns with background groundwater and performing SSE on solids recovered from the columns at the end of the tests.

### 4.1 Flushing-Phase Column Tests to Assess Treatment Stability

Following completion of the treatment phase of the column tests using impacted groundwater, the column influents were switched to background groundwater (GC-AP-MW-23) to assess the reversibility of the COI removal by the treated soils. Background groundwater was run through the columns for up to approximately 24 PVs. During this flushing phase of the column tests, the COI concentrations in the effluents were lower than the effluents at the end of the treatment phase and decreased over time. Arsenic remained below 1 µg/L in the GC-AP-MW-1 column effluent (Table 6), demonstrating high stability of arsenic removed by the treated soil. Cobalt, however, was not effectively removed from GC-AP-MW-1.

Cobalt was detected above the GWPS at the beginning of the flushing phase in the GC-AP-MW-44H column but accounted for a small overall quantity of cobalt: approximately 39 micrograms (µg) of cobalt was flushed from the column (total load of 1480 µg). The low percentage of cobalt (<3%) re-released from the GC-AP-MW-44H column demonstrates the stability of cobalt removed by  $\text{KMnO}_4 + \text{NaHCO}_3$  treatment. An additional consideration is that the pH of the effluent increased from mildly acidic to neutral levels over the duration of the flushing phase, indicating a neutral pH will promote cobalt stabilization. Column test results for the flushing phase are included in Table 6 and Appendix A.

### 4.2 SSE on Post-Column Aquifer Soils and Untreated Soils

SSE quantifies the distribution of the sequestered COIs among different solid phases in the treated and COI-loaded aquifer soils. SSE results provide insights into the COI removal mechanisms, potential for remobilization of COIs, and long-term stability of the sequestered COIs. Specifically, SSE categorizes the target constituents into five operationally defined fractions, F1 through F5, which require increasingly aggressive chemical reagents to extract. The chemical extractions and what they represent are as follows:

Fraction No.	Fraction Name	Extraction Fluid	Targeted Phases
F1	Soluble	1 M magnesium chloride adjusted to pH 7	Dissolved and weakly sorbed
F2	Exchangeable	1 M monosodium phosphate at pH 5	Strongly sorbed, e.g., on clay minerals and oxides
F3	Reducible	0.1 M hydroxylamine/hydrochloric acid adjusted to pH 2 with nitric acid	Poorly crystalline metal oxides such as iron and manganese oxides

<b>Fraction No.</b>	<b>Fraction Name</b>	<b>Extraction Fluid</b>	<b>Targeted Phases</b>
F4	Strong acid/oxidizable	16 M nitric acid	Crystalline oxide and crystalline sulfide minerals
F5	Residual	Digestion by USEPA Method 3050B	Silicate and other recalcitrant phases in the aquifer soil matrix

SSE was performed in accordance with the EGL standard operating procedure modified from Tessier et al. (1979). First, the bottom 6 cm of treated soil in the column was recovered and thoroughly homogenized. Approximately 1 gram (dry weight) of the recovered column media was weighed into a 50-mL centrifuge tube and extracted with the solutions in the sequence described above. SSE was also performed on aliquots of GC-AP-PT-1 and GC-AP-PT-5 untreated soil.

The SSE results are summarized in Figures 8 through 11 and Table 7; the analytical data are included in Appendix A. SSE results indicate arsenic in the GC-AP-MW-1 column solids was sequestered predominantly in F2 and F4, with approximately 99% of the arsenic sequestered in F2 through F5 (Figure 8). These fractions include COIs strongly adsorbed to and incorporated in manganese and iron oxides, as well as naturally occurring COIs associated with silicate or other recalcitrant phases in the aquifer soil matrix (Figures 10 and 11). Iron oxide concentrations increased in F4 due to high groundwater iron content and treatment (Figure 10), and arsenic was found predominantly in F4 (Figure 8), showing that crystalline iron oxides were responsible for arsenic removal from GC-AP-MW-1 groundwater. In contrast, little manganese oxide formed in the GC-AP-MW-1 treated soil (Figure 11), likely due to the low pH. Cobalt was not accumulated in GC-AP-MW-1 column solids, which was expected based on the low mass uptake of cobalt during the treatment phase of the column tests.

In GC-AP-MW-44H column solids, cobalt was sequestered primarily in F3 at a higher proportion than in the untreated soils, with approximately 95% of the cobalt being in the F2 through F5 fractions, suggesting cobalt is strongly adsorbed to and incorporated in manganese and iron oxides (Figures 9, 10, and 11). The manganese oxide concentration in F3 increased by an order of magnitude between untreated and treated soils (Figure 11), and cobalt was found predominantly in F3 (Figure 9), indicating manganese oxides are responsible for cobalt removal from GC-AP-MW-44H groundwater.

Overall, the association of cobalt with manganese oxides and arsenic with iron oxides indicates COIs are strongly sequestered in relatively stable phases in the treated soils. The SSE data also corroborate the column test flushing-phase results, which demonstrate the irreversibility of arsenic and cobalt removal in the GC-AP-MW-1 and GC-AP-MW-44H treated soils, respectively.

## 5 Conclusions and Recommendations

Supplemental column tests were performed to evaluate the effectiveness of a single-solution reagent mix,  $\text{KMnO}_4 + \text{NaHCO}_3$ , in removing the COIs (i.e., arsenic and/or cobalt) from Site groundwater. Performance criteria evaluated included the COI removal efficiency, treatment capacity, stability of the sequestered COIs, and potential for unintended consequences such as release of Appendix III/IV constituents from the aquifer matrix. Major conclusions of the supplemental treatability study are as follows:

- The  $\text{KMnO}_4 + \text{NaHCO}_3$  reagent mix performed well for arsenic removal in GC-AP-MW-1 and cobalt removal in GC-AP-MW-44H groundwater, respectively.
- In the column tests, the GWPS was achieved for arsenic in GC-AP-MW-1 and for cobalt in the higher pH (6.4) groundwater (GC-AP-MW-44H) using the  $\text{KMnO}_4 + \text{NaHCO}_3$  treatment. The column test results showed >99% and >81% removal of arsenic and cobalt mass, respectively, for  $\geq 15$  PVs.
- The GWPS was not achieved for cobalt in GC-AP-MW-1 groundwater, which had a lower pH (5.8), underscoring the importance of achieving a circumneutral pH for effective cobalt removal.
- After the treatment phase of the column studies, Site background groundwater was pumped through the columns to determine the reversibility of treatment. The flushing-phase concentrations of arsenic were below  $1 \mu\text{g/L}$ , indicating stability of treatment for GC-AP-MW-1 groundwater. The mass of cobalt removed from the GC-AP-MW-44H column during the flushing phase was low ( $<40 \mu\text{g}$ ), also indicating stability of treatment.
- Following completion of the column tests, the column media (aquifer soils) were recovered to evaluate the long-term stability of sequestered COIs to remobilization using a five-step SSE procedure. SSE results indicate cobalt and arsenic were associated with and bound to manganese and iron oxide phases, respectively, formed by the treatment and present in the native soils.

Recommendations based on the initial and supplemental treatability studies are as follows:

- Single-solution injection of  $\text{KMnO}_4 + \text{NaHCO}_3$  treatment is currently recommended for pilot testing at GC-AP-MW-44H. If the pilot testing location is at GC-AP-PZ-4 instead of GC-AP-MW-44H, a batch test with the  $\text{KMnO}_4 + \text{NaHCO}_3$  treatment should be performed to confirm treatment performance prior to the pilot test.
- At GC-AP-MW-1, a single-solution reagent mix ( $\text{KMnO}_4 + \text{NaHCO}_3$ ) is likely to be successful for arsenic removal but not cobalt removal due to the acidic pH of the groundwater at this location. Therefore, the two-solution Reagent Mix C ( $\text{FeCl}_3 + \text{MnCl}_2 + \text{MgCl}_2$  solution, followed by  $\text{NaAlO}_2 + \text{KMnO}_4$  solution +  $\text{NaOH}$  for pH adjustment to 9.5) is recommended for pilot testing at GC-AP-MW-1.



- At GC-AP-MW-5, the two-solution Reagent Mix C tested in the 2022 initial treatability studies is likely to be successful for the simultaneous removal of arsenic and lithium and is recommended for pilot testing at this location.
- Following selection of pilot locations and prior to implementation of field pilot tests, groundwater chemistry data should be reviewed, especially if a pilot test location is at a different location than that of the wells tested in this laboratory treatability study. If significant differences in groundwater chemistry are identified, confirmatory batch testing is recommended to confirm treatment performance and, if necessary, adjust the proposed injection reagent mix.

## 6 References

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# Tables

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**Table 1**  
**Initial Groundwater Characterization Results**

Parameter	Unit	GC-AP-MW-1		GC-AP-MW-44H		GC-AP-MW-23	
		May 16, 2023	May 26, 2023	May 16, 2023	May 26, 2023	May 16, 2023	May 26, 2023
Arsenic, dissolved	µg/L	11.5	7.40	1.68	1.35	0.11 U	0.09 U
Arsenic, total	µg/L	12.0	11.0	2.00	1.37	0.11 U	0.09 U
Cobalt, dissolved	µg/L	232	227	257	262	0.07 U	0.029
Cobalt, total	µg/L	236	237	250	256	0.07 U	0.027
Iron, dissolved	mg/L	182	149	7.61	5.74	0.00812 U	0.001 J
Iron, total	mg/L	166	156	8.80	5.85	0.0212 J	0.0008 J
Lithium, dissolved	µg/L	7.1 U	3.76	7.1 U	2.44	7.1 U	1.17
Lithium, total	µg/L	7.1 U	3.60	7.1 U	2.41	7.1 U	1.13
Manganese, dissolved	mg/L	13.4	13.3	7.79	7.61	0.00087 J	0.00052
Manganese, total	mg/L	13.2	13.1	7.77	7.14	0.000856 J	0.00048
pH	SU	5.45	6.61	6.14	6.47	6.09	6.64
Dissolved oxygen	mg/L	0.80	2.66	0.05	2.85	6.00	4.09
Oxidation-reduction potential	mV	22.1	65.1	-22.8	41.8	126	46.2
Specific conductivity	µS/cm	1174	972	768	688	153	220
Alkalinity	mg/L	44.0	--	83.0	--	64.7	--
Aluminum, dissolved	mg/L	0.0274 J	--	0.00914 U	--	0.00914 U	--
Aluminum, total	mg/L	0.0446 J	--	0.0891	--	0.0241 J	--
Antimony, dissolved	mg/L	0.00071 U	--	0.00071 U	--	0.00071 U	--
Antimony, total	mg/L	0.00071 U	--	0.00071 U	--	0.00071 U	--
Barium, dissolved	mg/L	0.0343	--	0.0474	--	0.0334	--
Barium, total	mg/L	0.0336	--	0.0481	--	0.0322	--
Beryllium, dissolved	mg/L	0.00041 U	--	0.00041 U	--	0.00041 U	--
Beryllium, total	mg/L	0.00041 U	--	0.00041 U	--	0.00041 U	--
Bicarbonate alkalinity	mg/L	44 J	--	83 J	--	64.7	--
Boron, dissolved	mg/L	0.181	--	0.195	--	0.03 U	--
Boron, total	mg/L	0.187	--	0.201	--	0.03 U	--
Cadmium, dissolved	mg/L	0.000115 J	--	0.000187 J	--	0.00007 U	--
Cadmium, total	mg/L	0.000089 J	--	0.00019 J	--	0.00007 U	--
Calcium, dissolved	mg/L	104	--	115	--	25.9	--
Calcium, total	mg/L	105	--	132	--	25.4	--
Carbonate alkalinity	mg/L	0.5 U	--	0.5 U	--	0.5 U	--
Chloride	mg/L	40.8	--	14.9	--	1.08	--
Chromium, dissolved	mg/L	0.00025 J	--	0.000229 J	--	0.000225 J	--
Chromium, total	mg/L	0.000326 J	--	0.000387 J	--	0.000304 J	--
Fluoride	mg/L	0.144	--	0.114 J	--	0.0935 J	--
Lead, dissolved	mg/L	0.00007 U	--	0.000106 J	--	0.00007 U	--
Lead, total	mg/L	0.00007 U	--	0.000073 J	--	0.00007 U	--
Magnesium, dissolved	mg/L	27.0	--	17.4	--	2.00	--
Magnesium, total	mg/L	27.6	--	18.0	--	2.02	--
Mercury	mg/L	0.0003 U	--	0.0003 U	--	0.0003 U	--
Molybdenum, dissolved	mg/L	0.00508 U	--	0.00508 U	--	0.00508 U	--
Molybdenum, total	mg/L	0.00508 U	--	0.00508 U	--	0.00508 U	--
Nitrate nitrite as N	mg/L as N	0.322	--	0.2 U	--	0.2 U	--
Potassium, total	mg/L	3.38	--	2.93	--	0.800	--
Radium 226 + radium 228	pCi/L	1.20 U	--	1.17 U	--	1.21 U	--
Selenium, dissolved	mg/L	0.00086 J	--	0.00051 U	--	0.000956 J	--
Selenium, total	mg/L	0.000809 J	--	0.00051 U	--	0.0010	--
Silica, dissolved	mg/L	10.9	--	9.37	--	7.98	--
Silica, total	mg/L	11.1	--	9.57	--	8.05	--
Silicon, dissolved	mg/L	5.11	--	4.38	--	3.73	--
Silicon, total	mg/L	5.20	--	4.47	--	3.76	--
Sodium, dissolved	mg/L	35.2	--	27.4	--	2.29	--
Sodium, total	mg/L	36.2	--	27.7	--	2.23	--
Sulfate	mg/L	578	--	308	--	9.41	--
Sulfide	mg/L	0	--	0	--	0	--
Temperature (field)	°C	20.3	--	18.1	--	18.4	--
Thallium, dissolved	mg/L	0.000106 J	--	0.00007 U	--	0.00007 U	--
Thallium, total	mg/L	0.000098 J	--	0.00007 U	--	0.00007 U	--
Total dissolved solids	mg/L	1050	--	545	--	86.0	--
Total organic carbon	mg/L	2.1	--	1.05 J	--	1.0 U	--
Turbidity (field)	NTU	4.37	--	7.35	--	1.89	--

Notes:

Samples were field filtered with a 0.45-micron filter at the time of collection and filtered again prior to analysis for dissolved constituents.

Samples were collected in the field on May 16, 2023, then sent directly to the analytical laboratories (the APC Environmental Laboratory and Pace Analytical Services, LLC) and to EGL for supplemental testing. EGL submitted subsamples to ALS Environmental for additional initial characterization on May 26, 2023 (Sample Delivery Group No. K2306772).

--: not measured

µg/L: microgram per liter

µS/cm: microsiemen per centimeter

EGL: Anchor QEA Environmental Geochemistry Laboratory

J: indicates the result is an estimated value

mg/L: milligram per liter

mV: millivolt

NTU: Nephelometric Turbidity Unit

pCi/L: picocurie per liter

SU: standard unit

U: Indicates the compound was analyzed for but not detected. Value is set to method detection limit.

**Table 2**  
**Pairs of Groundwater and Aquifer Soils Used in the Supplemental Treatability Study**

<b>Groundwater ID</b>	<b>Soil Sample ID</b>	<b>Depth Interval (ft bgs)</b>	<b>COI(s) in Groundwater</b>
GC-AP-MW-1	GC-AP-PT-1	11.0–25.0	Arsenic and cobalt
GC-AP-MW-44H	GC-AP-PT-5	12.0–22.0	Cobalt

Notes:

COI: constituent of interest

ft bgs: foot below ground surface

**Table 3**  
**Column Test Setup**

<b>Column No.</b>	<b>Reagent Mix</b>	<b>Groundwater ID</b>	<b>Aquifer Soil ID (depth; feet)</b>	<b>COI(s)</b>	<b>Soil Added (dry weight; grams)</b>	<b>Reagent Mix Added (dry weight; grams)</b>
1	KMnO <sub>4</sub> + NaHCO <sub>3</sub>	GC-AP-MW-1	GC-AP-PT-1 (11.0–25.0)	As and Co	543	0.377
2	KMnO <sub>4</sub> + NaHCO <sub>3</sub>	GC-AP-MW-44H	GC-AP-PT-5 (12.0–22.0)	Co	510	0.499

Notes:

As: arsenic

Co: cobalt

COI: constituent of interest

KMnO<sub>4</sub> + NaHCO<sub>3</sub>: potassium permanganate with sodium bicarbonate

**Table 4**  
**Column Test Operating Conditions**

Parameter	Value	Unit
Column media depth	22.0	cm
Column inner diameter	4.2	cm
Flow rate	0.71–0.73	mL/min
Porosity	0.29–0.30	--
Hydraulic residence time <sup>1</sup>	2.01–2.14	hours
Superficial velocity <sup>1</sup>	73.9–75.6	cm/day
Test duration	7 (+3 flushing phase)	days
Pore volumes treated	77.0–82.0	--
Pore volumes flushed	23.8–24.5	--

Notes:

1. Values are calculated for each column using the measured porosity and average flow rate for that column over the column test duration.

--: not applicable

cm: centimeter

cm/day: centimeter per day

mL/min: milliliter per minute

**Table 5**  
**Column Treatment-Phase Test Results**

Sample	Sampling Date and Time	Elapsed Time (days)	Flow Rate <sup>1</sup> (mL/min)	Pore Volume Treated	Dissolved COIs (µg/L)		Dissolved Amendment Constituents (mg/L)		Water Quality Parameters			Laboratory Report ID
					Arsenic	Cobalt	Iron	Manganese	pH	SC (µS/cm)	ORP (mV)	
Influent (GC-AP-MW-1)	6/26/2023 13:52	0.12	--	--	1640	219	140	13.1	5.50	2215	222	K2307317
	6/26/2023 17:05	0.25	--	--	1550	213	140	13.0	5.46	1802	33.1	K2307317
	6/27/2023 8:53	0.91	--	--	1310	221	142	12.9	5.76	2068	500	K2307482
	6/27/2023 13:05	1.08	--	--	DNM <sup>a</sup>	226 <sup>a</sup>	143 <sup>a</sup>	13.0 <sup>a</sup>	5.68	1929	401	K2307482
	6/27/2023 17:05	1.25	--	--	1180	226	143	12.9	5.75	1923	61.6	K2307482
	6/28/2023 9:04	1.92	--	--	923	232	144	12.7	5.81	2263	483	K2307486
	6/28/2023 13:15	2.09	--	--	826	229	145	12.9	5.82	2263	401	K2307486
	6/28/2023 17:05	2.25	--	--	772	229	139	12.7	5.95	2242	112	K2307486
	6/29/2023 8:58	2.91	--	--	486	229	140	12.8	5.81	2258	468	K2307486
	6/29/2023 15:58	3.20	--	--	DNM <sup>a</sup>	234 <sup>a</sup>	148 <sup>a</sup>	13.1 <sup>a</sup>	6.30	1606	563	K2307486
	6/30/2023 9:09	3.92	--	--	177	234	138	12.7	5.92	2832	503	K2307526
	6/30/2023 16:05	4.21	--	--	149	229	144	13.3	6.13	2794	451	K2307526
7/3/2023 8:22	6.89	--	--	8.34	233	134	13.2	5.92	2422	458	K2307526	
Effluent (GC-AP-MW-1, permanganate column)	6/26/2023 12:52	0.07	0.68	0.798	0.54	0.168	0.0088	10.6	7.26	4651	660	K2307317
	6/26/2023 16:04	0.21	0.75	2.36	0.16 J	2.20	0.0027	2.84	6.60	2420	476	K2307317
	6/27/2023 7:53	0.87	0.73	9.90	2.05	260	106	18.7	5.70	2096	536	K2307482
	6/27/2023 12:01	1.04	0.72	11.9	2.15	218	111	14.0	4.85	1932	527	K2307482
	6/27/2023 16:00	1.20	0.69	13.7	2.28	215	115	13.3	5.32	1909	481	K2307482
	6/28/2023 8:04	1.87	0.72	21.3	1.97	229	111	12.7	5.35	2427	539	K2307486
	6/28/2023 12:11	2.05	0.71	23.2	1.83	228	114	13.2	5.36	2214	457	K2307486
	6/28/2023 16:00	2.20	0.71	24.9	1.81	220	114	13.0	5.33	2203	498	K2307486
	6/29/2023 7:58	2.87	0.71	32.4	1.68	228	115	13.0	5.29	2308	541	K2307486
	6/29/2023 14:58	3.16	0.69	35.6	1.64	230	114	12.8	5.45	2210	507	K2307486
	6/30/2023 8:09	3.88	0.72	43.7	1.47	224	113	12.7	5.44	2852	512	K2307526
	6/30/2023 15:00	4.16	0.71	46.8	1.46	224	114	13.2	5.58	2699	524	K2307526
7/3/2023 7:22	6.85	0.71	77.0	1.51	224	109	13.0	5.19	2617	551	K2307526	
Influent (GC-AP-MW-44H)	6/26/2023 13:52	0.12	--	--	--	243	1.82	8.01	6.15	1493	468	K2307318
	6/26/2023 17:05	0.25	--	--	--	240	1.68	7.86	6.18	1297	88.6	K2307318
	6/27/2023 8:53	0.91	--	--	--	247	1.18	7.89	6.28	1469	554	K2307482
	6/27/2023 13:05	1.08	--	--	--	245 <sup>a</sup>	0.982 <sup>a</sup>	7.56 <sup>a</sup>	6.19	1410	520	K2307482
	6/27/2023 17:05	1.25	--	--	--	252	0.848	7.84	6.48	282 <sup>b</sup>	244	K2307482
	6/28/2023 9:04	1.92	--	--	--	254	0.271	7.00	6.31	1649	561	K2307486
	6/28/2023 13:16	2.09	--	--	--	258	0.140	7.02	6.27	1625	550	K2307486
	6/28/2023 17:05	2.25	--	--	--	257	0.0435	7.35	6.41	1664	277	K2307486
	6/29/2023 8:58	2.91	--	--	--	260	0.0160	7.22	6.35	1650	557	K2307486
	6/29/2023 15:59	3.20	--	--	--	259 <sup>a</sup>	0.0040 <sup>a</sup>	6.97 <sup>a</sup>	6.02	2270	63.4	K2307486
	6/30/2023 9:10	3.92	--	--	--	254	0.0218	7.05	6.51	2052	576	K2307526
	6/30/2023 16:05	4.21	--	--	--	258	0.0203	6.97	6.76	2088	522	K2307526
7/3/2023 8:22	6.89	--	--	--	254	0.0182	7.25	6.81	1811	494	K2307526	
Effluent (GC-AP-MW-44H, permanganate column)	6/26/2023 12:52	0.07	0.76	0.927	--	1.91	0.0359	4.40	7.76	3266	613	K2307318
	6/26/2023 16:04	0.21	0.75	2.58	--	0.797	0.0088	0.76	7.11	2440	551	K2307318
	6/27/2023 7:53	0.87	0.73	10.5	--	6.65	0.0177	0.529	6.22	1597	530	K2307482
	6/27/2023 12:01	1.04	0.73	12.6	--	11.3	0.0151	1.17	6.75	1577	555	K2307482
	6/27/2023 16:00	1.20	0.71	14.5	--	13.4	0.0215	1.64	6.79	278 <sup>b</sup>	455	K2307482
	6/28/2023 8:04	1.87	0.73	22.5	--	31.9	0.0162	3.99	6.30	1682	541	K2307486
	6/28/2023 12:12	2.05	0.72	24.5	--	33.1	0.0134	3.83	6.26	1695	558	K2307486
	6/28/2023 16:00	2.20	0.72	26.4	--	35.4	0.0189	4.80	6.48	1707	211	K2307486
	6/29/2023 7:58	2.87	0.72	34.3	--	47.6	0.0138	5.19	6.36	1662	533	K2307486
	6/29/2023 14:59	3.16	0.70	37.7	--	49.4	0.0111	5.19	6.41	1638	525	K2307486
	6/30/2023 8:10	3.88	0.73	46.3	--	58.5	0.0135	5.66	6.48	2062	552	K2307526
	6/30/2023 15:00	4.16	0.72	49.7	--	55.4	0.0147	5.29	6.55	2110	560	K2307526
7/3/2023 7:22	6.85	0.73	82.0	--	67.4	0.0184	5.82	6.63	1848	524	K2307526	

Notes:

- 1. Flow rate was measured in effluent samples only.
- a. GC-COL-MW-44H-INF-4 and GC-COL-MW-1-INF-4 were switched when submitting to the analytical laboratory, as were GC-COL-MW-44H-INF-10 and GC-COL-MW-1-INF-10.
- b. Values are not accurate due to equipment malfunction in SC sampling.
- : not applicable
- DNM: did not measure
- µg/L: microgram per liter
- µS/cm: microsiemen per centimeter
- J: indicates the result is an estimated value
- mg/L: milligram per liter
- mL/min: milliliter per minute
- mV: millivolt
- ORP: oxidation reduction potential
- SC: specific conductivity



**Table 6**  
**Column Flushing-Phase Test Results**

Sample	Sampling Date and Time	Elapsed Time (days)	Flow Rate <sup>1</sup> (mL/min)	Pore Volume Treated	Dissolved COIs		Dissolved Amendment Constituents		Water Quality Parameters			Laboratory Report ID
					Arsenic (µg/L)	Cobalt (µg/L)	Iron (mg/L)	Manganese (mg/L)	pH	SC (µS/cm)	ORP (mV)	
GC-AP-MW-1 permanganate column effluent	7/3/2023 11:27	0.1	0.738	1.03	0.60	93.8	44.6	5.53	5.63	1506	554	K2307606
	7/4/2023 8:59	1.0	0.745	11.6	0.09 U	10.6	0.0107	0.619	6.44	557	573	K2307606
	7/5/2023 10:14	2.0	0.739	23.8	0.09 U	0.169	0.0283	0.0521	7.35	589	587	K2307606
GC-AP-MW-44H permanganate column effluent	7/3/2023 11:27	0.1	0.726	1.06	--	32.7	0.0057	3.29	6.91	1232	576	K2307606
	7/4/2023 8:59	1.0	0.731	11.8	--	19.3	0.0014 J	1.57	6.97	463	592	K2307606
	7/5/2023 10:14	2.0	0.731	24.5	--	15.6	0.0016 J	1.27	7.25	476	582	K2307606
MW-23 column influent	7/3/2023 12:27	0.1	--	--	0.10 J	0.017 J	0.0021	0.0009	6.94	77.0	488	K2307606
	7/4/2023 9:59	1.0	--	--	0.09 J	0.019 J	0.002 J	0.0006	7.06	414	589	K2307606
	7/5/2023 11:14	2.1	--	--	0.09 U	0.010 J	0.0012 J	0.0005	7.30	395	590	K2307606

Notes:

1. Flow rate was measured in effluent samples only.

-- : not applicable

µg/L: microgram per liter

µS/cm: microsiemen per centimeter

COI: constituent of interest

J: indicates the result is an estimated value

mg/L: milligram per liter

mL/min: milliliter per minute

mV: millivolt

ORP: oxidation reduction potential

SC: specific conductivity

U: indicates the compound was analyzed for but not detected (Value is set to instrument detection limit.)

**Table 7**  
**SSE Results**

Sample	Arsenic (mg/kg)					Cobalt (mg/kg)					Iron (mg/kg)					Manganese (mg/kg)				
	F1	F2	F3	F4	F5	F1	F2	F3	F4	F5	F1	F2	F3	F4	F5	F1	F2	F3	F4	F5
GC-AP-PT-1 (11.0-25.0), untreated	0.04 J	0.38	0.03 J	0.11 U	0.67	0.04	0.03	0.02	0.04	0.434	0.48	84.5	45.2	262	2310	5.99	1.40	1.03	1.85	6.15
KMnO <sub>4</sub> + NaHCO <sub>3</sub> (GC-AP-MW-1) <sup>1</sup>	0.03 J	1.21	0.18	3.19	0.60	0.01	0.02	0.01	0.03	0.253	0.37	88.9	71.5	544	1370	0.89	0.82	0.97	3.77	5.76
KMnO <sub>4</sub> + NaHCO <sub>3</sub> (GC-AP-MW-1) (Dup) <sup>1</sup>	0.05 J	1.11	0.17	2.94	0.66	0.01	0.01	0.01	0.04	0.384	0.35	82.7	63.3	509	1740	0.64	0.92	0.82	2.32	6.76
GC-AP-PT-5 (12.0-22.0), untreated	0.05	3.02	0.39	1.10	2.55	1.11	1.05	1.63	1.77	1.81	0.35	82.0	243	562	4150	4.23	1.30	4.96	3.26	11.6
KMnO <sub>4</sub> + NaHCO <sub>3</sub> (GC-AP-MW-44H) <sup>2</sup>	0.09	2.50	0.35	0.91	2.79	0.59	1.26	5.74	1.51	1.84	0.14 J	73.5	201	498	4450	9.42	10.4	64.4	4.23	15.4

Notes:

1. Groundwater collected from GC-AP-MW-1 was paired with aquifer soil collected from GC-AP-PT-1.
2. Groundwater collected from GC-AP-MW-44H was paired with aquifer soil collected from GC-AP-PT-5.

All results are reported on a dry weight basis.

Dup: duplicate

F1: water soluble, weakly sorbed (extracted by 1 M magnesium chloride to pH 7)

F2: exchangeable, strongly sorbed, e.g., on clay minerals and oxides (extracted by 1 M monosodium phosphate at pH 5)

F3: reducible, e.g., poorly crystalline metal oxides such as iron and manganese oxides (extracted by 0.1 M hydroxylamine/hydrochloric acid adjusted to pH 2 with nitric acid)

F4: oxidizable, e.g., crystalline oxide and crystalline sulfide minerals (extracted by 16 M nitric acid)

F5: residual, e.g., silicate and other recalcitrant phases in the aquifer soil matrix (prepared by U.S. Environmental Protection Agency Method 3050B)

J: indicates the result is an estimated value

KMnO<sub>4</sub> + NaHCO<sub>3</sub>: potassium permanganate with sodium bicarbonate

M: molar

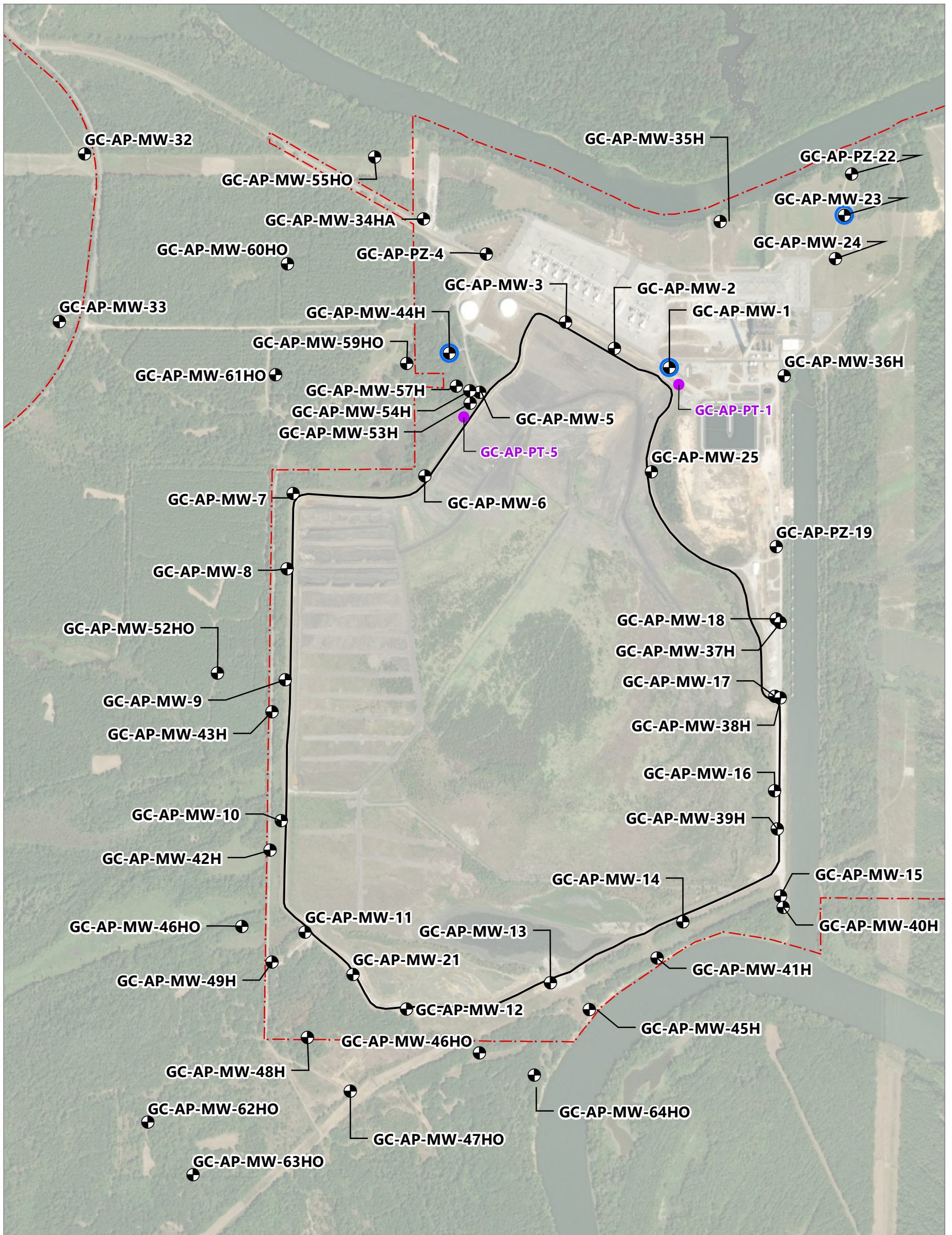
mg/kg: milligram per kilogram

SSE: selective sequential extraction

U: indicates the compound was analyzed for but not detected (Value is set to instrument detection limit.)

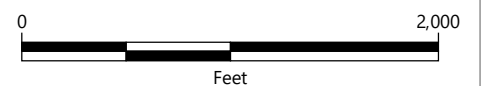
## Figures

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**LEGEND:**

- - - Property Boundary
- Greene County Ash Pond Boundary
- Monitoring Well
- Approximate Location of Pilot Test Soil Sample Boring Collected in February 2022
- Groundwater Sampling Location

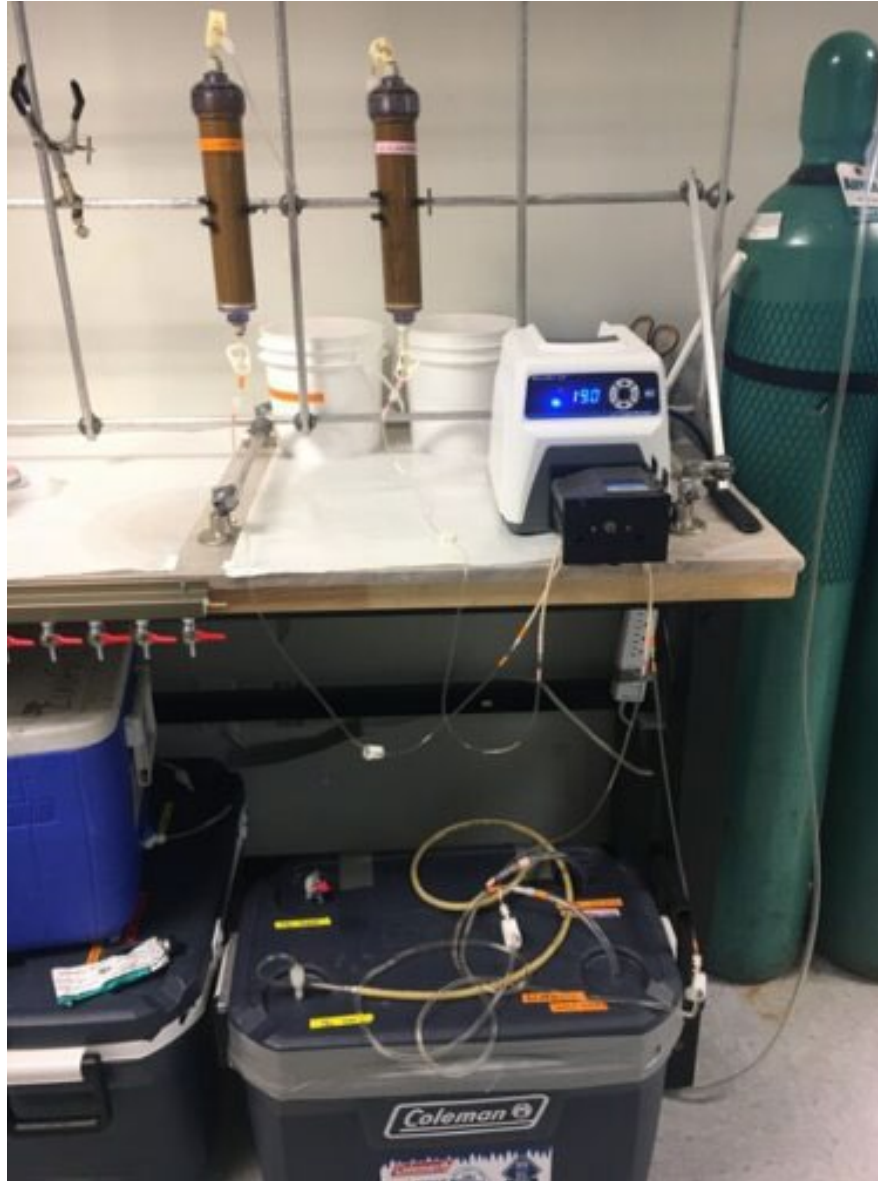


Filepath: \\orcas\GIS\Jobs\SouthernCompany\_1114\GreeneCounty\Maps\2023\_Supp\_TreatabilityStudies\AQ\_GC\_Figure01\_TreatabilityStudy\_SamplingLocations.mxd



**Figure 1**  
**Sampling Locations**

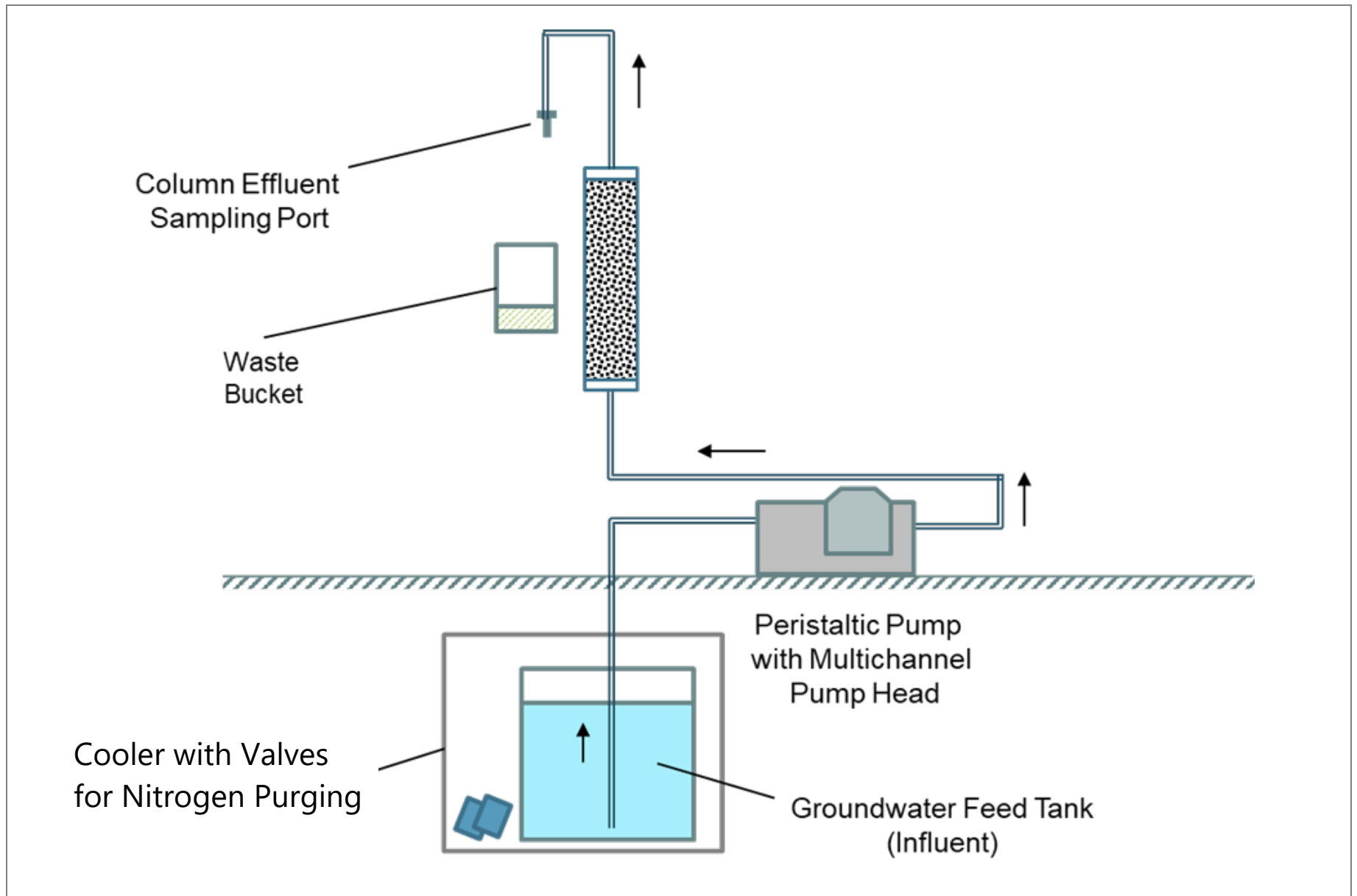
Supplemental Laboratory Treatability Study Results  
Plant Greene County



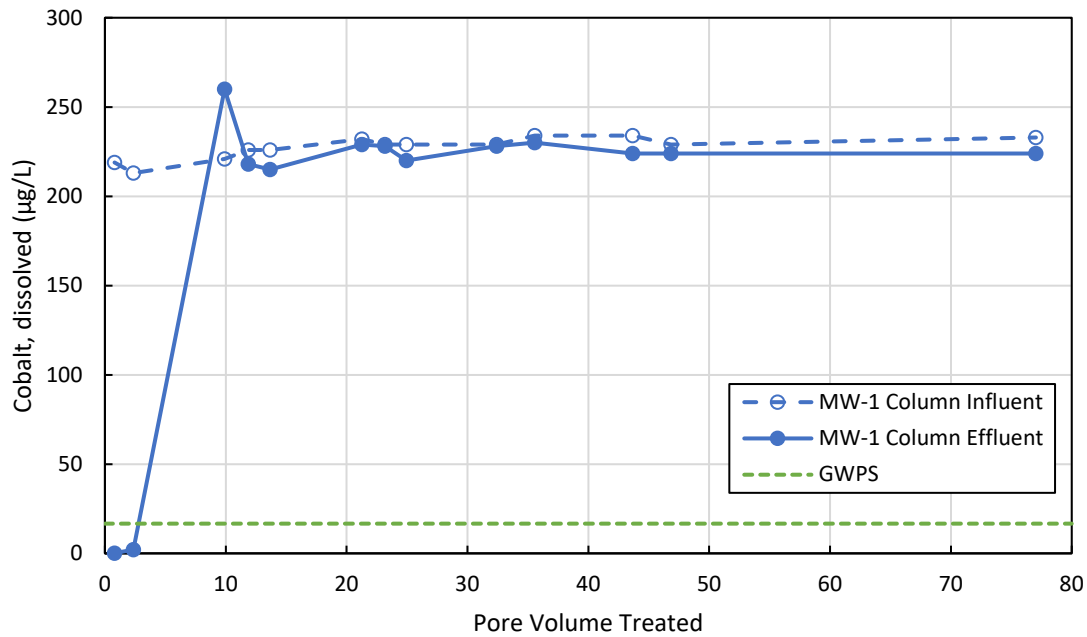
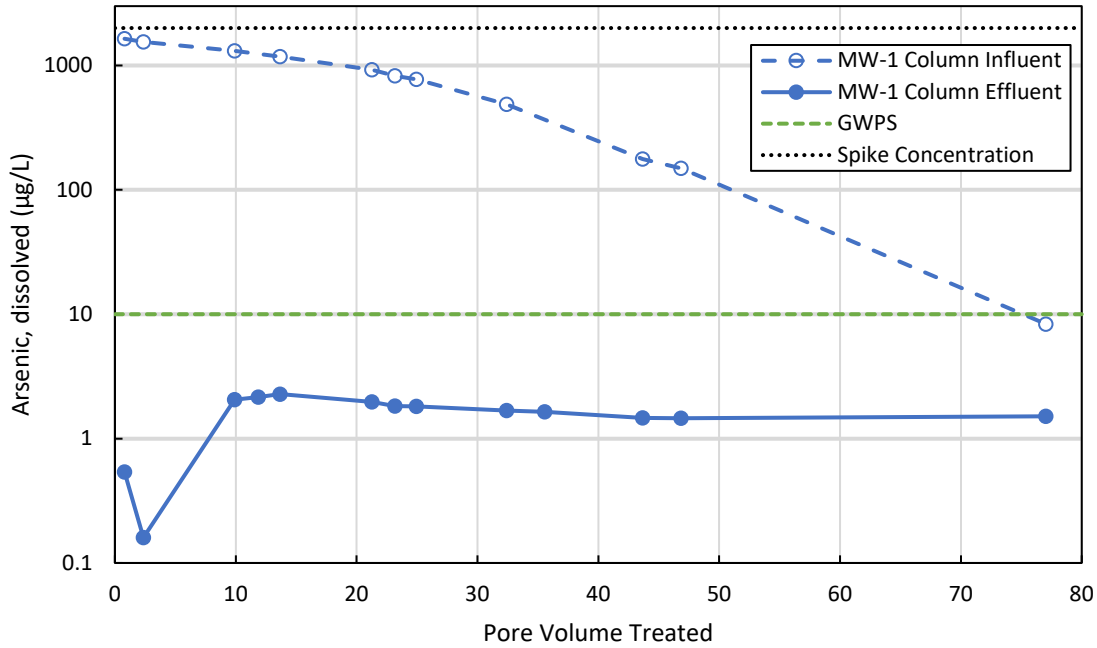
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**Figure 2**  
**Column Test Equipment Setup**  
Supplemental Laboratory Treatability Study Results  
Plant Greene County



Filepath: \\Wcl-fs1\mobile\Projects\Southern Company\Alabama Power ACMS - PRIVILEGED & CONFIDENTIAL\Treatability Studies\Reports\Greene County\Supplemental Results\Figures

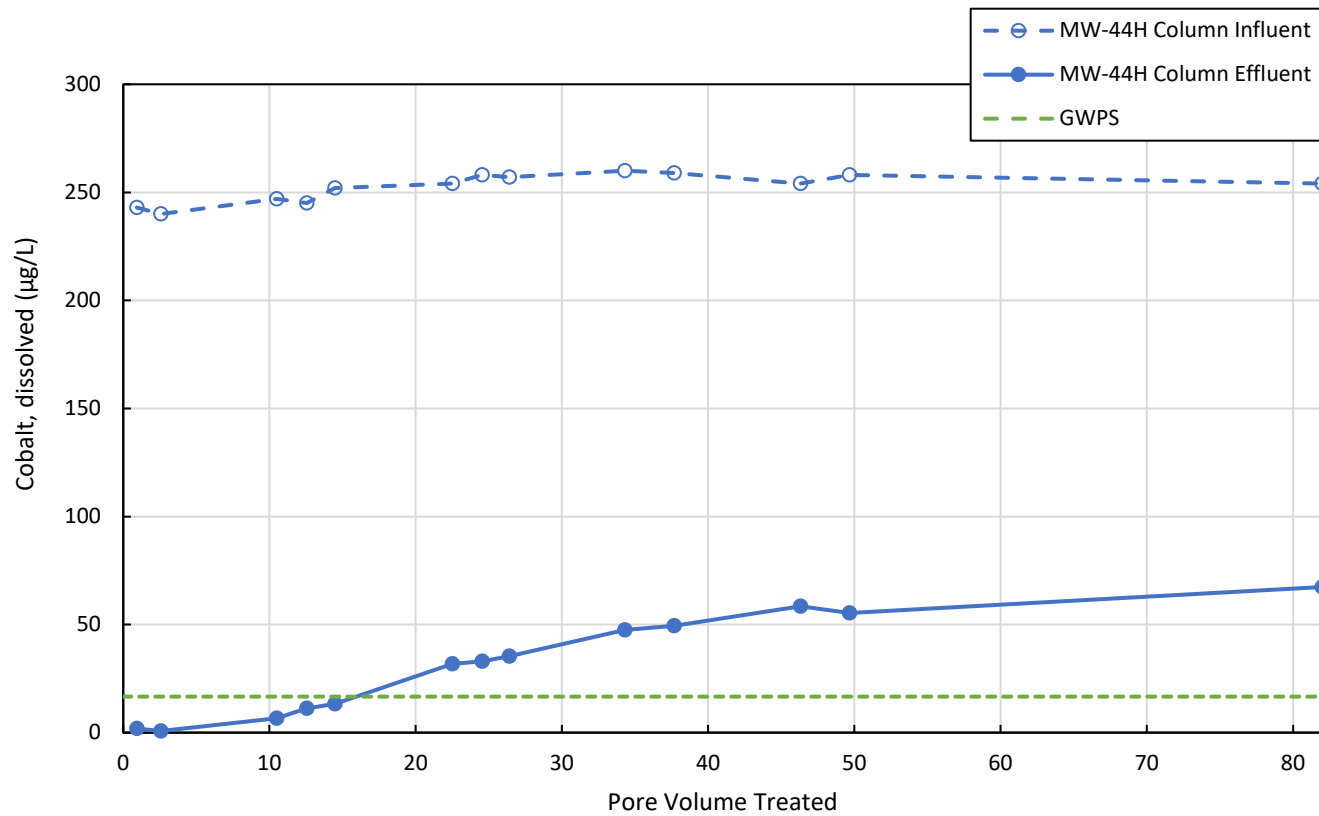


Notes:  
 µg/L: microgram per liter  
 GWPS: groundwater protection standard

Filepath: \\wcl-fs1\Mobile\Projects\Southern Company\Alabama Power ACMS - PRIVILEGED & CONFIDENTIAL\Treatability Studies\Reports\Greene County\Supplemental Results\Figures\Figure 4 - Column Breakthrough Curves for GC-AP-MW-1.docx



**Figure 4**  
**Column Breakthrough Curves for GC-AP-MW-1**  
 Supplemental Laboratory Treatability Study Results  
 Plant Greene County



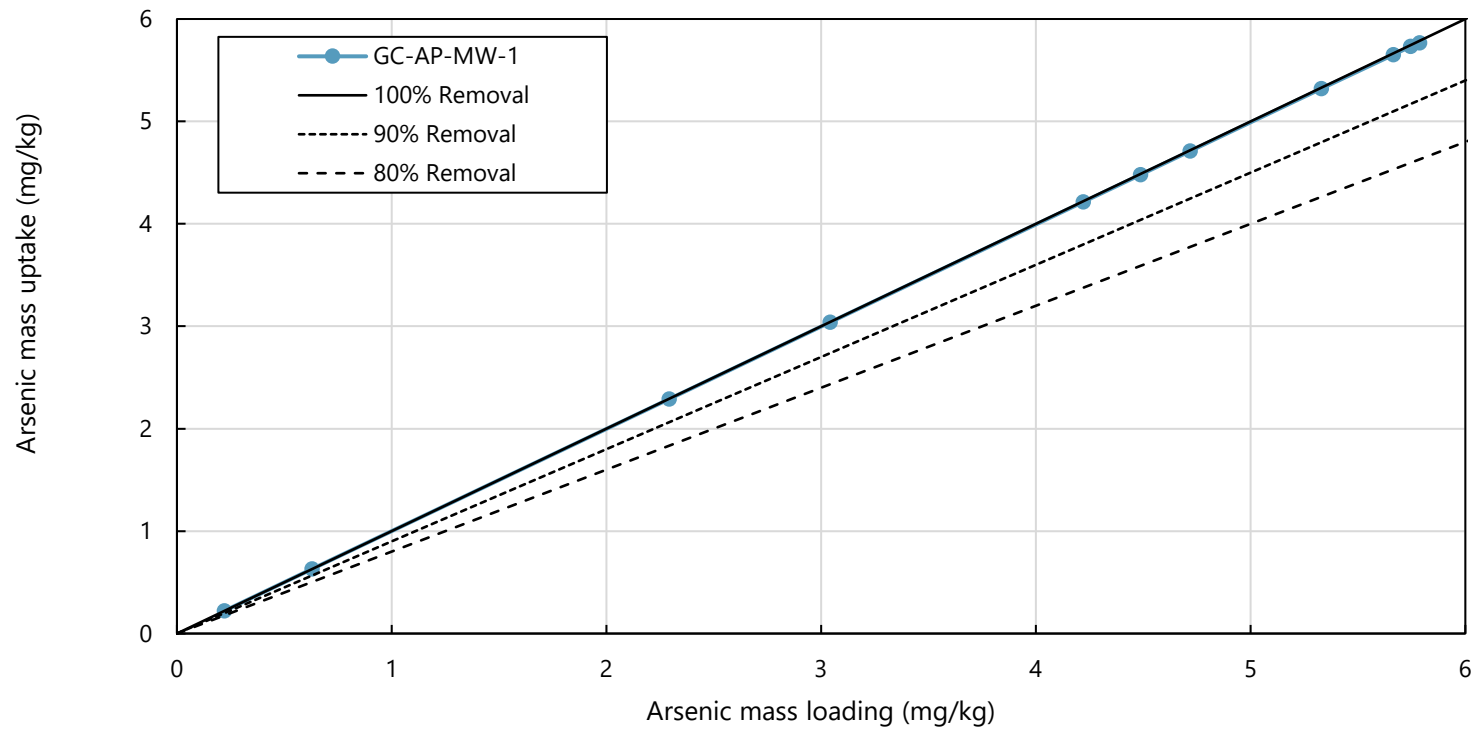
Notes:  
 µg/L: microgram per liter  
 GWPS: groundwater protection standard

Filepath: \\Wcl-fs1\mobile\Projects\Southern Company\Alabama Power ACMS - PRIVILEGED & CONFIDENTIAL\Treatability Studies\Reports\Greene County\Supplemental Results\Figures



**Figure 5**  
**Column Breakthrough Curve for GC-AP-MW-44H**  
 Supplemental Laboratory Treatability Study Results  
 Plant Greene County



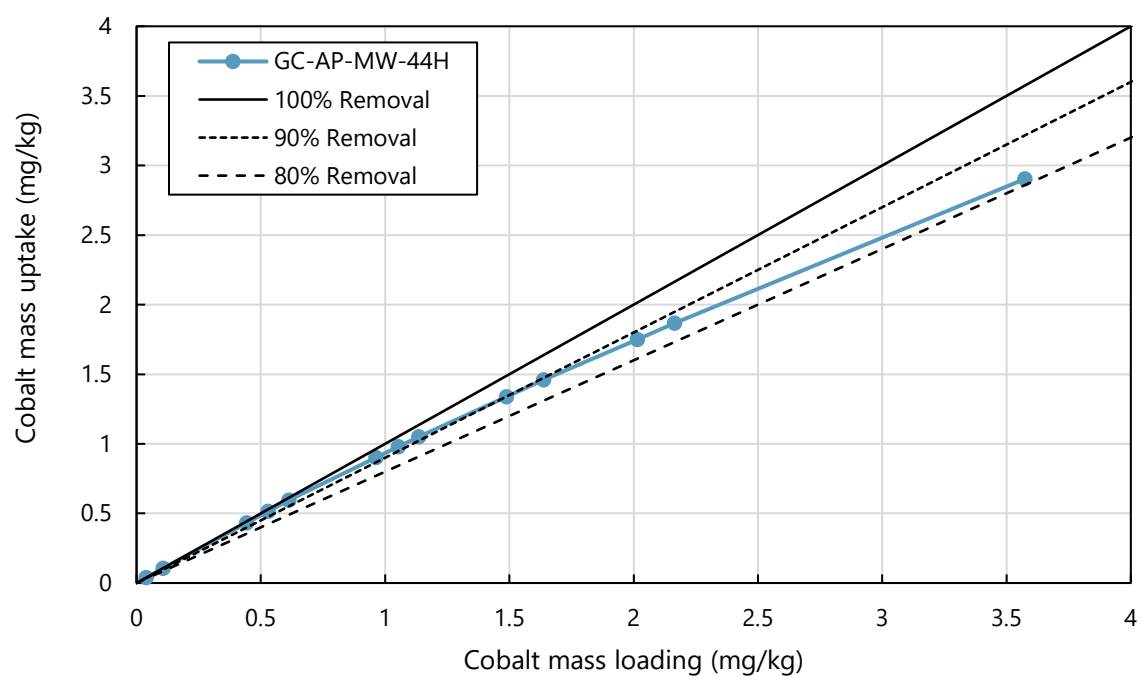
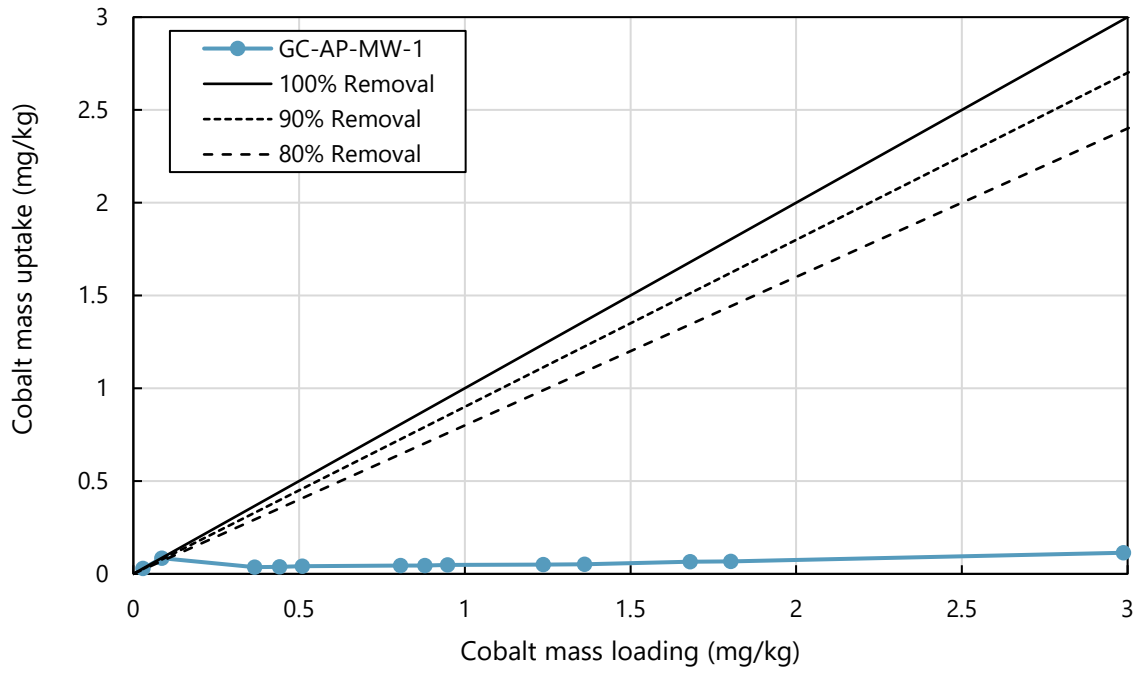


Note:  
mg/kg: milligram per kilogram

Filepath: \\Wcl-fs1\mobile\Projects\Southern Company\Alabama Power ACMS - PRIVILEGED & CONFIDENTIAL\Treatability Studies\Reports\Greene County\Supplemental Results\Figures



**Figure 6**  
**Arsenic Mass Uptake Versus Arsenic Mass Loading**  
Supplemental Laboratory Treatability Study Results  
Plant Greene County

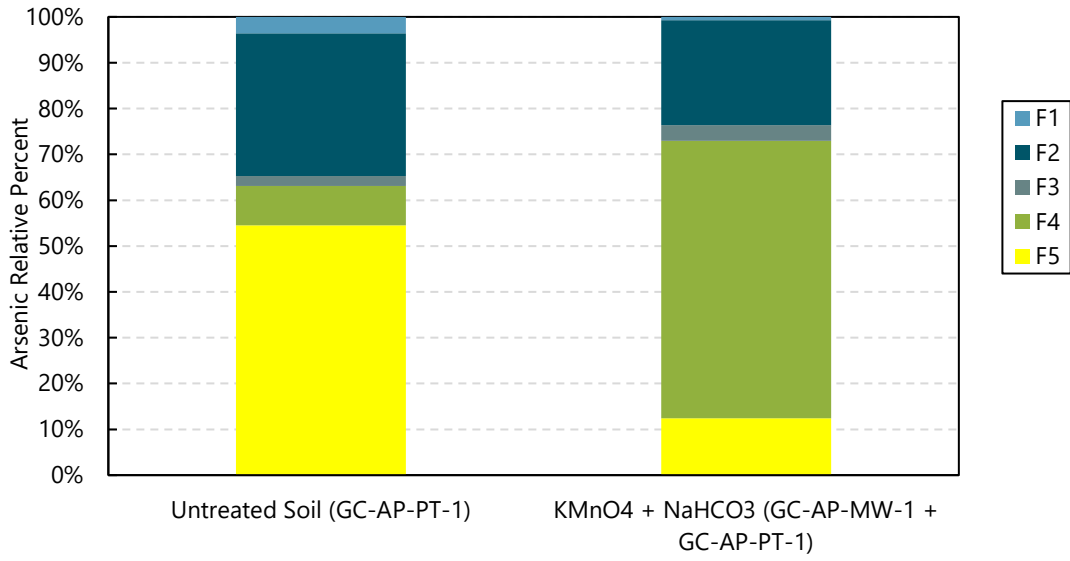
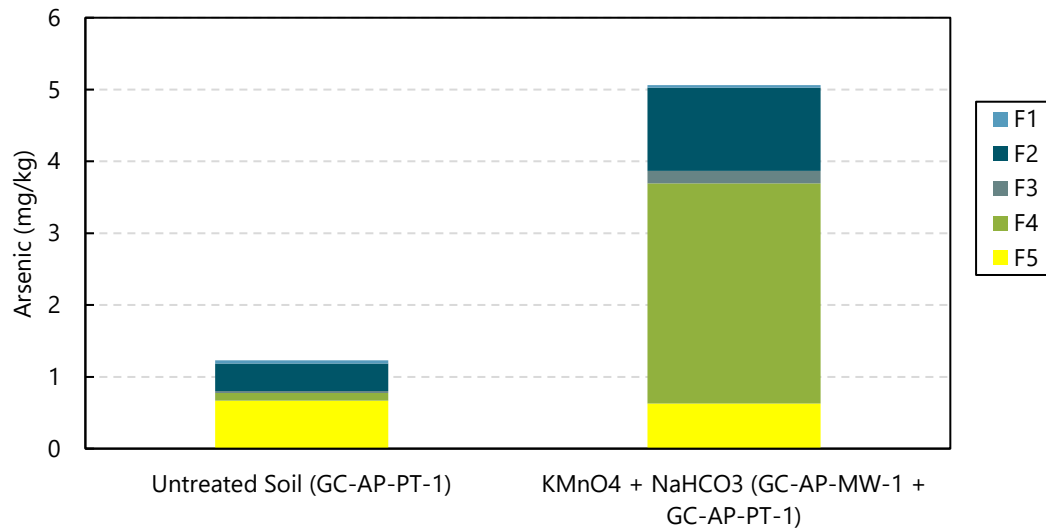


Note:  
mg/kg: milligram per kilogram

Filepath: \\wcl-fs1\Mobile\Projects\Southern Company\Alabama Power ACMS - PRIVILEGED & CONFIDENTIAL\Treatability Studies\Reports\Greene County\Supplemental Results\Figures\Figure 7 - Cobalt Mass Uptake Versus Cobalt Mass Loading.docx



**Figure 7**  
**Cobalt Mass Uptake Versus Cobalt Mass Loading**  
Supplemental Laboratory Treatability Study Results  
Plant Greene County



Notes:

KMnO4 + NaHCO3 (GC-AP-MW-1 + GC-AP-PT-1) was tested in duplicate. The average of the two results is shown here.

F1: water soluble, weakly sorbed (extracted by 1 M magnesium chloride to pH 7)

F2: exchangeable, strongly sorbed, e.g., on clay minerals and oxides (extracted by 1 M monosodium phosphate at pH 5)

F3: reducible, e.g., poorly crystalline metal oxides such as iron and manganese oxides (extracted by 0.1 M hydroxylamine/hydrogen chloride adjusted to pH 2 with nitric acid)

F4: oxidizable, e.g., crystalline oxide and crystalline sulfide minerals (extracted by 16 M nitric acid)

F5: residual, e.g., silicate and other recalcitrant phases in the aquifer soil matrix (prepared by U.S. Environmental Protection Agency Method 3050B)

GC-AP-PT-1: soil GC-AP-PT-1 (11.0 to 25.0 feet)

GC-AP-MW-1: groundwater GC-AP-MW-1

M: molar

mg/kg: milligram per kilogram

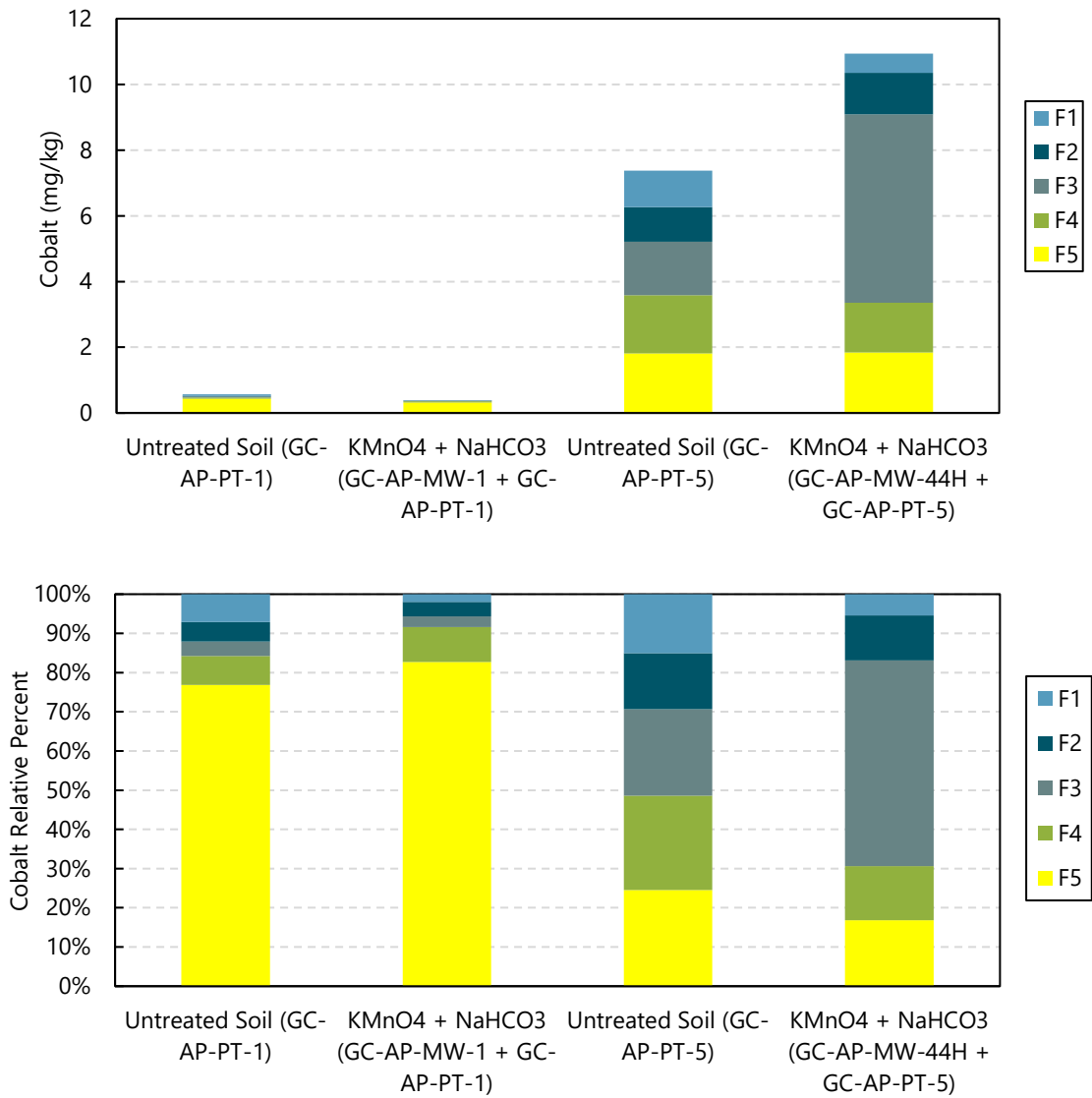
SSE: selective sequential extraction

Filepath: \\wcl-fs1\Mobile\Projects\Southern Company\Alabama Power ACMS - PRIVILEGED & CONFIDENTIAL\Treatability Studies\Reports\Greene County\Supplemental Results\Figures\Figure 8 - SSE Results of Arsenic for Post-Column Test Media and Untreated Soil.docx



**Figure 8**  
**SSE Results of Arsenic for Post-Column Test Media and Untreated Soil**

Supplemental Laboratory Treatability Study Results  
Plant Greene County



**Notes:**

KMnO4 + NaHCO3 (GC-AP-MW-1 + GC-AP-PT-1) was tested in duplicate. The average of the two results is shown here.

F1: water soluble, weakly sorbed (extracted by 1 M magnesium chloride to pH 7)

F2: exchangeable, strongly sorbed, e.g., on clay minerals and oxides (extracted by 1 M monosodium phosphate at pH 7)

F3: reducible, e.g., poorly crystalline metal oxides such as iron and manganese oxides (extracted by 0.1 M hydroxylamine/hydrogen chloride adjusted to pH 2 with nitric acid)

F4: oxidizable, e.g., crystalline oxide and crystalline sulfide minerals (extracted by 16 M nitric acid)

F5: residual, e.g., silicate and other recalcitrant phases in the aquifer soil matrix (prepared by U.S. Environmental Protection Agency Method 3050B)

GC-AP-PT-1: soil GC-AP-PT-1 (11.0 to 25.0 feet)

GC-AP-PT-5: soil GC-AP-PT-5 (12.0 to 22.0 feet)

GC-AP-MW-1: groundwater GC-AP-MW-1

GC-AP-MW-44H: groundwater GC-AP-MW-44H

M: molar

mg/kg: milligram per kilogram

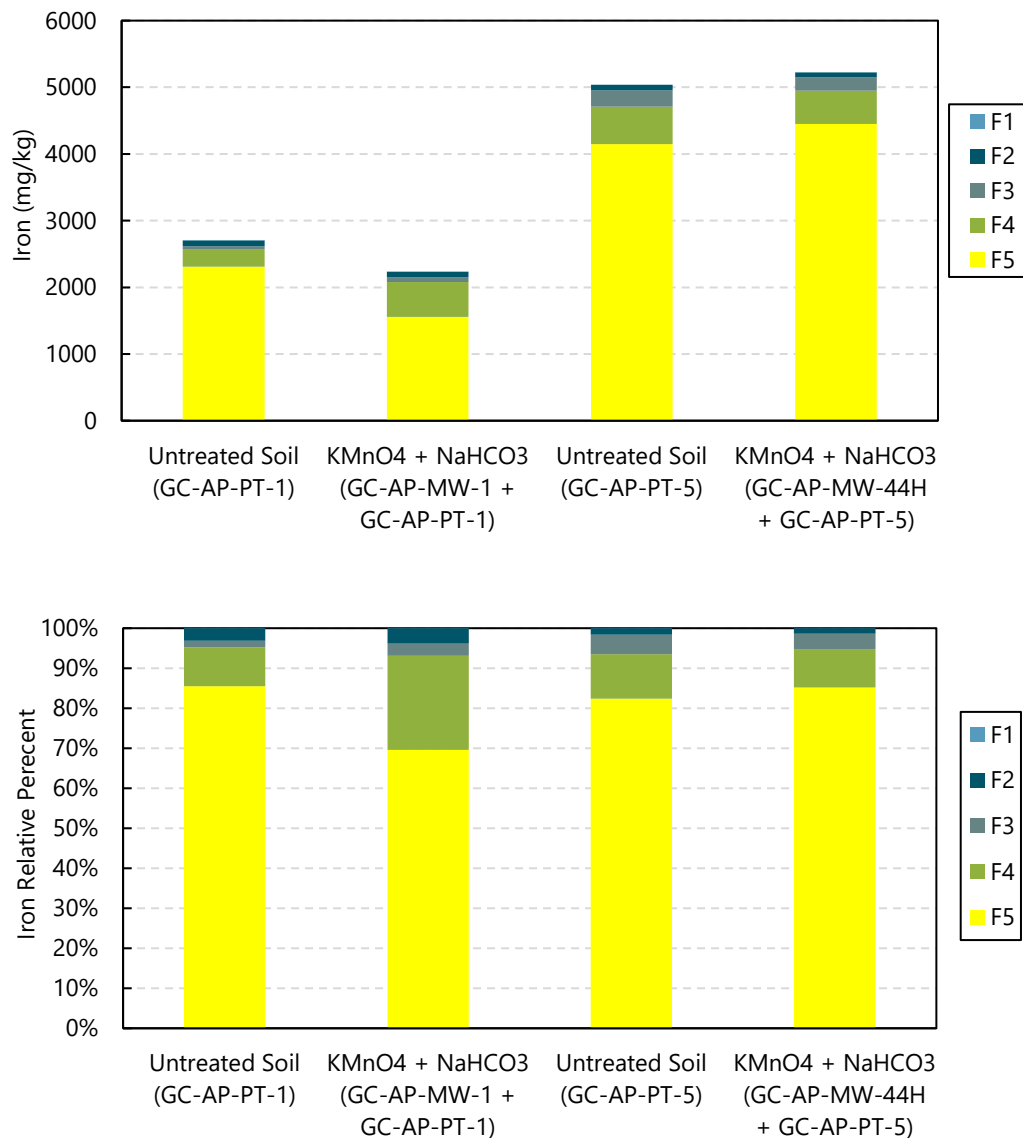
SSE: selective sequential extraction

Filepath: \\wcl-fs1\Mobile\Projects\Southern Company\Alabama Power ACMS - PRIVILEGED & CONFIDENTIAL\Treatability Studies\Reports\Greene County\Supplemental Results\Figures\Figure 9 - SSE Results of Cobalt for Post-Column Test Media and Untreated Soil.docx



**Figure 9**  
**SSE Results of Cobalt for Post-Column Test Media and Untreated Soil**

Supplemental Laboratory Treatability Study Results  
Plant Greene County



**Notes:**

KMnO4 + NaHCO3 (GC-AP-MW-1 + GC-AP-PT-1) was tested in duplicate. The average of the two results is shown here.

F1: water soluble, weakly sorbed (extracted by 1 M magnesium chloride to pH 7)

F2: exchangeable, strongly sorbed, e.g., on clay minerals and oxides (extracted by 1 M monosodium phosphate at pH 7)

F3: reducible, e.g., poorly crystalline metal oxides such as iron and manganese oxides (extracted by 0.1 M hydroxylamine/hydrogen chloride adjusted to pH 2 with nitric acid)

F4: oxidizable, e.g., crystalline oxide and crystalline sulfide minerals (extracted by 16 M nitric acid)

F5: residual, e.g., silicate and other recalcitrant phases in the aquifer soil matrix (prepared by U.S. Environmental Protection Agency Method 3050B)

GC-AP-PT-1: soil GC-AP-PT-1 (11.0 to 25.0 feet)

GC-AP-PT-5: soil GC-AP-PT-5 (12.0 to 22.0 feet)

GC-AP-MW-1: groundwater GC-AP-MW-1

GC-AP-MW-44H: groundwater GC-AP-MW-44H

M: molar

mg/kg: milligram per kilogram

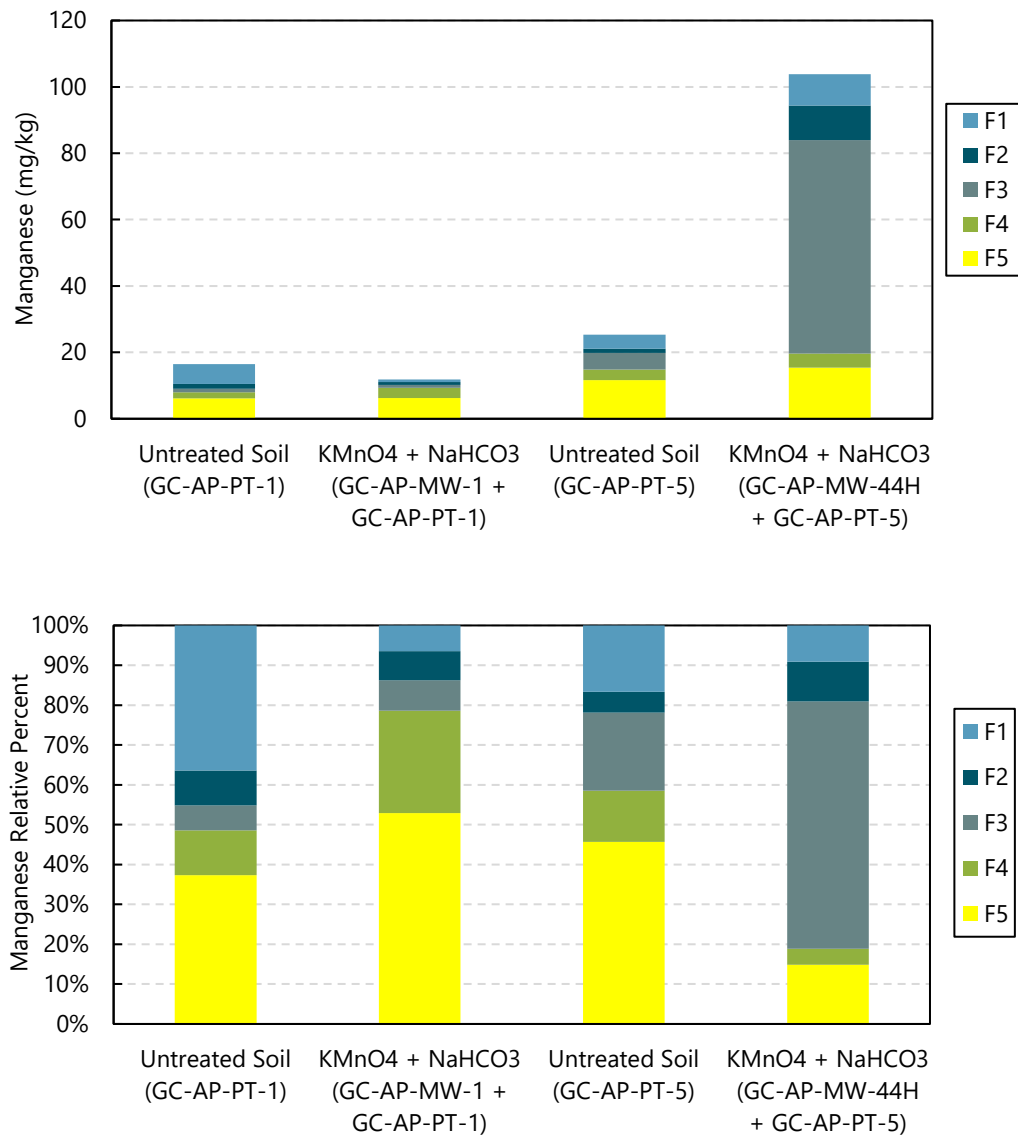
SSE: selective sequential extraction

Filepath: \\wcl-fs1\Mobile\Projects\Southern Company\Alabama Power ACMS - PRIVILEGED & CONFIDENTIAL\Treatability Studies\Reports\Greene County\Supplemental Results\Figures\Figure 10 - SSE Results of Iron for Post-Column Test Media and Untreated Soil.docx



**Figure 10**  
**SSE Results of Iron for Post-Column Test Media and Untreated Soil**

Supplemental Laboratory Treatability Study Results  
Plant Greene County



**Notes:**

KMnO4 + NaHCO3 (GC-AP-MW-1 + GC-AP-PT-1) was tested in duplicate. The average of the two results is shown here.

F1: water soluble, weakly sorbed (extracted by 1 M magnesium chloride to pH 7)

F2: exchangeable, strongly sorbed, e.g., on clay minerals and oxides (extracted by 1 M monosodium phosphate at pH 5)

F3: reducible, e.g., poorly crystalline metal oxides such as iron and manganese oxides (extracted by 0.1 M hydroxylamine/hydrogen chloride adjusted to pH 2 with nitric acid)

F4: oxidizable, e.g., crystalline oxide and crystalline sulfide minerals (extracted by 16 M nitric acid)

F5: residual, e.g., silicate and other recalcitrant phases in the aquifer soil matrix (prepared by U.S. Environmental Protection Agency Method 3050B)

GC-AP-PT-1: soil GC-AP-PT-1 (11.0 to 25.0 feet)

GC-AP-PT-5: soil GC-AP-PT-5 (12.0 to 22.0 feet)

GC-AP-MW-1: groundwater GC-AP-MW-1

GC-AP-MW-44H: groundwater GC-AP-MW-44H

M: molar

mg/kg: milligram per kilogram

SSE: selective sequential extraction

Filepath: \\wcl-fs1\Mobile\Projects\Southern Company\Alabama Power ACMS - PRIVILEGED & CONFIDENTIAL\Treatability Studies\Reports\Greene County\Supplemental Results\Figures\Figure 11 - SSE Results of Manganese for Post-Column Test Media and Untreated Soil.docx



**Figure 11**  
**SSE Results of Manganese for Post-Column Test Media and Untreated Soil**

Supplemental Laboratory Treatability Study Results  
Plant Greene County

Appendix A

Laboratory Analytical Reports

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Appendix A

Laboratory Analytical Reports

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June 21, 2023

Service Request No:K2306772

Masa Kanematsu  
Anchor QEA, LLC  
6720 SW Macadam Avenue  
Suite 125  
Portland, OR 97219

**Laboratory Results for: Greene County Treatability**

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory June 14, 2023  
For your reference, these analyses have been assigned our service request number **K2306772**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at [Mark.Harris@alsglobal.com](mailto:Mark.Harris@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Mark Harris  
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626  
PHONE +1 360 577 7222 | FAX +1 360 636 1068  
ALS Group USA, Corp.  
dba ALS Environmental



# Narrative Documents

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability  
**Sample Matrix:** Water

**Service Request:** K2306772  
**Date Received:** 06/14/2023

**CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

**Sample Receipt:**

Four water samples were received for analysis at ALS Environmental on 06/14/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

**Metals:**

No significant anomalies were noted with this analysis.

Approved by \_\_\_\_\_

Date 06/21/2023



**SAMPLE DETECTION SUMMARY**

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

**CLIENT ID: GC-AP-MW-1-20230526 Lab ID: K2306772-001**

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	11		2	10	ug/L	200.8
Arsenic, Dissolved	7.4		0.5	2.5	ug/L	200.8
Cobalt	237		0.18	0.40	ug/L	200.8
Cobalt, Dissolved	227		0.05	0.10	ug/L	200.8
Iron	156000		6	40	ug/L	200.8
Iron, Dissolved	149000		2	10	ug/L	200.8
Lithium	3.6		2.0	2.0	ug/L	200.8
Lithium, Dissolved	3.76		0.50	0.50	ug/L	200.8
Manganese	13100		0.8	4.0	ug/L	200.8
Manganese, Dissolved	13300		0.2	1.0	ug/L	200.8

**CLIENT ID: GC-AP-MW-1-DUP-20230526 Lab ID: K2306772-002**

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	13		2	10	ug/L	200.8
Arsenic, Dissolved	7.9		0.5	2.5	ug/L	200.8
Cobalt	274		0.18	0.40	ug/L	200.8
Cobalt, Dissolved	225		0.05	0.10	ug/L	200.8
Iron	182000		6	40	ug/L	200.8
Iron, Dissolved	147000		2	10	ug/L	200.8
Lithium	3.9		2.0	2.0	ug/L	200.8
Lithium, Dissolved	3.73		0.50	0.50	ug/L	200.8
Manganese	15100		0.8	4.0	ug/L	200.8
Manganese, Dissolved	12900		0.2	1.0	ug/L	200.8

**CLIENT ID: GC-AP-MW-44H20230526 Lab ID: K2306772-003**

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	1.37		0.09	0.50	ug/L	200.8
Arsenic, Dissolved	1.35		0.09	0.50	ug/L	200.8
Cobalt	256		0.009	0.020	ug/L	200.8
Cobalt, Dissolved	262		0.009	0.020	ug/L	200.8
Iron	5850		0.3	2.0	ug/L	200.8
Iron, Dissolved	5740		0.3	2.0	ug/L	200.8
Lithium	2.41		0.10	0.10	ug/L	200.8
Lithium, Dissolved	2.44		0.10	0.10	ug/L	200.8
Manganese	7140		0.8	4.0	ug/L	200.8
Manganese, Dissolved	7610		0.8	4.0	ug/L	200.8

**CLIENT ID: GC-AP-MW-23-20230526 Lab ID: K2306772-004**

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt	0.027		0.009	0.020	ug/L	200.8
Cobalt, Dissolved	0.029		0.009	0.020	ug/L	200.8
Iron	0.8	J	0.3	2.0	ug/L	200.8



### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

**CLIENT ID: GC-AP-MW-23-20230526** **Lab ID: K2306772-004**

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	1.0	J	0.3	2.0	ug/L	200.8
Lithium	1.13		0.10	0.10	ug/L	200.8
Lithium, Dissolved	1.17		0.10	0.10	ug/L	200.8
Manganese	0.48		0.04	0.20	ug/L	200.8
Manganese, Dissolved	0.52		0.04	0.20	ug/L	200.8



## Sample Receipt Information

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-01.05 Task 05


**Service Request:**K2306772

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2306772-001	GC-AP-MW-1-20230526	5/26/2023	1100
K2306772-002	GC-AP-MW-1-DUP-20230526	5/26/2023	1105
K2306772-003	GC-AP-MW-44H-20230526	5/26/2023	1110
K2306772-004	GC-AP-MW-23-20230526	5/26/2023	1115

K2306772

**Chain of Custody Record & Laboratory Analysis Request**

Laboratory Number: 503-972-5019					<b>No. of Containers</b>	<b>Parameters</b>												 ANCHOR QEA Masa Kanematsu 6720 SW Macadam Ave Suite 125 Portland OR 97219						
Date:	5/26/2023 <del>5/26/2023</del> 6/14/2023					Total Metals (Fe, Mn, As, Co, Li) Dissolved Metals (Fe, Mn, As, Co, Li)																	<b>Comments/Preservation</b>	
Project Name:	Greene County Treatability																							
Project Number:	221114-01.05 Task 05																							
Project Manager:	Masa Kanematsu																							
Phone Number:	Masa Kanematsu, mkanematsu@anchorqea.com																							
Shipment Method:	503-972-5001																							
Line	Field Sample ID	Collection		Matrix	No. of Containers	Total Metals (Fe, Mn, As, Co, Li)	Dissolved Metals (Fe, Mn, As, Co, Li)	Parameters												Comments/Preservation				
		Date	Time																					
1	GC-AP-MW-1-20230526	5/26/2023	11:00	Water	2	X	X																HNO3 preserved. 1 filtered bottle for dissolved metals, 1 unfiltered bottle for total metals. ICP-MS Method 200.8.	
2	GC-AP-MW-1-DUP-20230526	5/26/2023	11:05	Water	2	X	X																	
3	GC-AP-MW-44H-20230526	5/26/2023	11:10	Water	2	X	X																	
4	GC-AP-MW-23-20230526	5/26/2023	11:15	Water	2	X	X																	
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchorqea.com) if running > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb. Please test on 5-day TAT.

Relinquished by:	Company:
Emma Nordlund	Anchor QEA
Signature/Print Name:	Date/Time:
<i>Emma Nordlund</i>	6/14/23 9:00AM

Relinquished by:	Company:
<i>Greg Rich</i>	ALS
Signature/Print Name:	Date/Time:
<i>Greg Rich</i>	6-14-23 1405

Received by:
<i>Greg Rich</i>
Signature/Print Name:
<i>Greg Rich 6-14-23 0940</i>

Received by:
<i>Nanom Pedersen</i>
Signature/Print Name:
<i>Nanom Pedersen 6/14/23 1405</i>



**Cooler Receipt and Preservation Form**

Client Anchor AEA Service Request K23 060772  
 Received: 6/14/23 Opened: 6/14/23 By: AP Unloaded: 6/14/23 By: AP

1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered  
 2. Samples were received in: (circle) Cooler Box Envelope Other NA  
 3. Were custody seals on coolers? NA Y N If yes, how many and where? \_\_\_\_\_  
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
<u>3.6</u>	<u>—</u>	<u>1202</u>	<u>NA</u>			<u>NA</u>	

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:  
 If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":  
 5. Were samples received within the method specified temperature ranges? NA Y N  
 If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N  
 If applicable, tissue samples were received: Frozen Partially Thawed Thawed  
 6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves \_\_\_\_\_  
 7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N  
 8. Were samples received in good condition (unbroken) NA Y N  
 9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N  
 10. Did all sample labels and tags agree with custody papers? NA Y N  
 11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N  
 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N  
 13. Were VOA vials received without headspace? Indicate in the table below. NA Y N  
 14. Was C12/Res negative? NA Y N  
 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N  
 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

RUSH

Notes, Discrepancies, Resolutions: Did not pH due to limited volume



## Miscellaneous Forms

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### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso  
State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEH	<a href="http://dec.alaska.gov/eh/lab/cs/csapproval.htm">http://dec.alaska.gov/eh/lab/cs/csapproval.htm</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2795
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L16-58-R4
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Hawaii DOH	<a href="http://health.hawaii.gov/">http://health.hawaii.gov/</a>	-
ISO 17025	<a href="http://www.pjllabs.com/">http://www.pjllabs.com/</a>	L16-57
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	03016
Maine DHS	<a href="http://www.maine.gov/dhhs/">http://www.maine.gov/dhhs/</a>	WA01276
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-457
Nevada DEP	<a href="http://ndep.nv.gov/bsdwlabservice.htm">http://ndep.nv.gov/bsdwlabservice.htm</a>	WA01276
New Jersey DEP	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	WA005
New York - DOH	<a href="https://www.wadsworth.org/regulatory/elap">https://www.wadsworth.org/regulatory/elap</a>	12060
North Carolina DEQ	<a href="https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification">https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA100010
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/EnvironmentalLabCertification/">http://www.scdhec.gov/environment/EnvironmentalLabCertification/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704427
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C544
Wyoming (EPA Region 8)	<a href="https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water">https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water</a>	-
Kelso Laboratory Website	<a href="http://www.alsglobal.com">www.alsglobal.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.ALSGlobal.com](http://www.ALSGlobal.com) or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-01.05 Task 05

**Service Request:** K2306772

**Sample Name:** GC-AP-MW-1-20230526  
**Lab Code:** K2306772-001  
**Sample Matrix:** Water

**Date Collected:** 05/26/23  
**Date Received:** 06/14/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-MW-1-DUP-20230526  
**Lab Code:** K2306772-002  
**Sample Matrix:** Water

**Date Collected:** 05/26/23  
**Date Received:** 06/14/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-MW-44H-20230526  
**Lab Code:** K2306772-003  
**Sample Matrix:** Water

**Date Collected:** 05/26/23  
**Date Received:** 06/14/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-MW-23-20230526  
**Lab Code:** K2306772-004  
**Sample Matrix:** Water

**Date Collected:** 05/26/23  
**Date Received:** 06/14/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
JCHAN



# Sample Results

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# Metals

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ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-01.05 Task 05  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-MW-1-20230526  
**Lab Code:** K2306772-001

**Service Request:** K2306772  
**Date Collected:** 05/26/23 11:00  
**Date Received:** 06/14/23 14:05

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	7.4	ug/L	2.5	0.5	5	06/20/23 14:04	06/15/23	
Cobalt	200.8	227	ug/L	0.10	0.05	5	06/20/23 14:04	06/15/23	
Iron	200.8	149000	ug/L	10	2	5	06/20/23 14:04	06/15/23	
Lithium	200.8	3.76	ug/L	0.50	0.50	5	06/20/23 14:04	06/15/23	
Manganese	200.8	13300	ug/L	1.0	0.2	5	06/20/23 14:04	06/15/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-01.05 Task 05  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-MW-1-20230526  
**Lab Code:** K2306772-001

**Service Request:** K2306772  
**Date Collected:** 05/26/23 11:00  
**Date Received:** 06/14/23 14:05  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	11	ug/L	10	2	20	06/20/23 13:29	06/15/23	
Cobalt	200.8	237	ug/L	0.40	0.18	20	06/20/23 13:29	06/15/23	
Iron	200.8	156000	ug/L	40	6	20	06/20/23 13:29	06/15/23	
Lithium	200.8	3.6	ug/L	2.0	2.0	20	06/20/23 13:29	06/15/23	
Manganese	200.8	13100	ug/L	4.0	0.8	20	06/20/23 13:29	06/15/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-01.05 Task 05  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-MW-1-DUP-20230526  
**Lab Code:** K2306772-002

**Service Request:** K2306772  
**Date Collected:** 05/26/23 11:05  
**Date Received:** 06/14/23 14:05

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	7.9	ug/L	2.5	0.5	5	06/20/23 14:05	06/15/23	
Cobalt	200.8	225	ug/L	0.10	0.05	5	06/20/23 14:05	06/15/23	
Iron	200.8	147000	ug/L	10	2	5	06/20/23 14:05	06/15/23	
Lithium	200.8	3.73	ug/L	0.50	0.50	5	06/20/23 14:05	06/15/23	
Manganese	200.8	12900	ug/L	1.0	0.2	5	06/20/23 14:05	06/15/23	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-01.05 Task 05  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-MW-1-DUP-20230526  
**Lab Code:** K2306772-002

**Service Request:** K2306772  
**Date Collected:** 05/26/23 11:05  
**Date Received:** 06/14/23 14:05  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	13	ug/L	10	2	20	06/20/23 13:34	06/15/23	
Cobalt	200.8	274	ug/L	0.40	0.18	20	06/20/23 13:34	06/15/23	
Iron	200.8	182000	ug/L	40	6	20	06/20/23 13:34	06/15/23	
Lithium	200.8	3.9	ug/L	2.0	2.0	20	06/20/23 13:34	06/15/23	
Manganese	200.8	15100	ug/L	4.0	0.8	20	06/20/23 13:34	06/15/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-01.05 Task 05  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-MW-44H-20230526  
**Lab Code:** K2306772-003

**Service Request:** K2306772  
**Date Collected:** 05/26/23 11:10  
**Date Received:** 06/14/23 14:05

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	1.35	ug/L	0.50	0.09	1	06/20/23 13:48	06/15/23	
Cobalt	200.8	262	ug/L	0.020	0.009	1	06/20/23 13:48	06/15/23	
Iron	200.8	5740	ug/L	2.0	0.3	1	06/20/23 13:48	06/15/23	
Lithium	200.8	2.44	ug/L	0.10	0.10	1	06/20/23 13:48	06/15/23	
Manganese	200.8	7610	ug/L	4.0	0.8	20	06/20/23 13:52	06/15/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-01.05 Task 05  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-MW-44H-20230526  
**Lab Code:** K2306772-003

**Service Request:** K2306772  
**Date Collected:** 05/26/23 11:10  
**Date Received:** 06/14/23 14:05  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	1.37	ug/L	0.50	0.09	1	06/20/23 13:45	06/15/23	
Cobalt	200.8	256	ug/L	0.020	0.009	1	06/20/23 13:45	06/15/23	
Iron	200.8	5850	ug/L	2.0	0.3	1	06/20/23 13:45	06/15/23	
Lithium	200.8	2.41	ug/L	0.10	0.10	1	06/20/23 13:45	06/15/23	
Manganese	200.8	7140	ug/L	4.0	0.8	20	06/20/23 13:35	06/15/23	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-01.05 Task 05  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-MW-23-20230526  
**Lab Code:** K2306772-004

**Service Request:** K2306772  
**Date Collected:** 05/26/23 11:15  
**Date Received:** 06/14/23 14:05

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	06/20/23 13:50	06/15/23	
Cobalt	200.8	<b>0.029</b>	ug/L	0.020	0.009	1	06/20/23 13:50	06/15/23	
Iron	200.8	<b>1.0 J</b>	ug/L	2.0	0.3	1	06/20/23 13:50	06/15/23	
Lithium	200.8	<b>1.17</b>	ug/L	0.10	0.10	1	06/20/23 13:50	06/15/23	
Manganese	200.8	<b>0.52</b>	ug/L	0.20	0.04	1	06/20/23 13:50	06/15/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-01.05 Task 05  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-MW-23-20230526  
**Lab Code:** K2306772-004

**Service Request:** K2306772  
**Date Collected:** 05/26/23 11:15  
**Date Received:** 06/14/23 14:05

**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	06/20/23 13:46	06/15/23	
Cobalt	200.8	<b>0.027</b>	ug/L	0.020	0.009	1	06/20/23 13:46	06/15/23	
Iron	200.8	<b>0.8 J</b>	ug/L	2.0	0.3	1	06/20/23 13:46	06/15/23	
Lithium	200.8	<b>1.13</b>	ug/L	0.10	0.10	1	06/20/23 13:46	06/15/23	
Manganese	200.8	<b>0.48</b>	ug/L	0.20	0.04	1	06/20/23 13:46	06/15/23	





## QC Summary Forms

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# Metals

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ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-01.05 Task 05  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** KQ2310611-02

**Service Request:** K2306772  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	06/20/23 13:09	06/15/23	
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	06/20/23 13:09	06/15/23	
Iron	200.8	ND U	ug/L	2.0	0.3	1	06/20/23 13:09	06/15/23	
Lithium	200.8	ND U	ug/L	0.10	0.10	1	06/20/23 13:09	06/15/23	
Manganese	200.8	<b>0.09 J</b>	ug/L	0.20	0.04	1	06/20/23 13:09	06/15/23	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-01.05 Task 05  
**Sample Matrix:** Water

**Service Request:** K2306772  
**Date Collected:** 05/26/23  
**Date Received:** 06/14/23  
**Date Analyzed:** 06/20/23  
**Date Extracted:** 06/15/23

**Matrix Spike Summary**  
**Total Metals**

**Sample Name:** GC-AP-MW-1-20230526  
**Lab Code:** K2306772-001  
**Analysis Method:** 200.8  
**Prep Method:** EPA CLP ILM04.0

**Units:** ug/L  
**Basis:** NA

**Matrix Spike**  
KQ2310611-03

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	11	64	50	105	70-130
Cobalt	237	276	25.0	154 #	70-130
Iron	156000	164000	50	15202 #	70-130
Lithium	3.6	59.5	50.0	112	70-130
Manganese	13100	13800	25.0	2757 #	70-130

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-01.05 Task 05  
**Sample Matrix:** Water

**Service Request:** K2306772  
**Date Collected:** 05/26/23  
**Date Received:** 06/14/23  
**Date Analyzed:** 06/20/23

Replicate Sample Summary

Total Metals

**Sample Name:** GC-AP-MW-1-20230526  
**Lab Code:** K2306772-001

**Units:** ug/L  
**Basis:** NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate	Average	RPD	RPD Limit
					Sample KQ2310611-04 Result			
Arsenic	200.8	10	2	11	12	12	9	20
Cobalt	200.8	0.40	0.18	237	243	240	3	20
Iron	200.8	40	6	156000	159000	158000	2	20
Lithium	200.8	2.0	2.0	3.6	3.8	3.7	5	20
Manganese	200.8	4.0	0.8	13100	13400	13300	2	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-01.05 Task 05  
**Sample Matrix:** Water

**Service Request:** K2306772  
**Date Analyzed:** 06/20/23

**Lab Control Sample Summary**  
**Total Metals**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
KQ2310611-01

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Arsenic	200.8	49.6	50.0	99	85-115
Cobalt	200.8	25.6	25.0	103	85-115
Iron	200.8	51.3	50.0	103	85-115
Lithium	200.8	50.3	50.0	101	85-115
Manganese	200.8	24.9	25.0	100	85-115



July 03, 2023

Service Request No:K2307317

Masa Kanematsu  
Anchor QEA, LLC  
6720 SW Macadam Avenue  
Suite 125  
Portland, OR 97219

**Laboratory Results for: Greene County-2023 & 2024**

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory June 27, 2023  
For your reference, these analyses have been assigned our service request number **K2307317**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at [Mark.Harris@alsglobal.com](mailto:Mark.Harris@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Mark Harris  
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626  
PHONE +1 360 577 7222 | FAX +1 360 636 1068  
ALS Group USA, Corp.  
dba ALS Environmental



# Narrative Documents

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)





**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024  
**Sample Matrix:** Water

**Service Request:** K2307317  
**Date Received:** 06/27/2023

**CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

**Sample Receipt:**

Four water samples were received for analysis at ALS Environmental on 06/27/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

**Metals:**

No significant anomalies were noted with this analysis.

*Noel D. O'Connell*

Approved by \_\_\_\_\_

Date 07/03/2023



### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

<b>CLIENT ID: GC-COL-MW-1-PM-1</b>	<b>Lab ID: K2307317-001</b>
------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.54		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	0.168		0.009	0.020	ug/L	200.8
Iron, Dissolved	8.8		0.3	2.0	ug/L	200.8
Manganese, Dissolved	10600		0.8	10	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-1-INF-1</b>	<b>Lab ID: K2307317-002</b>
-------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	1640		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	219		0.009	0.020	ug/L	200.8
Iron, Dissolved	140000		6	40	ug/L	200.8
Manganese, Dissolved	13100		0.8	10	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-1-PM-2</b>	<b>Lab ID: K2307317-003</b>
------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.16	J	0.09	0.50	ug/L	200.8
Cobalt, Dissolved	2.20		0.009	0.020	ug/L	200.8
Iron, Dissolved	2.7		0.3	2.0	ug/L	200.8
Manganese, Dissolved	2840		0.04	0.50	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-1-INF-2</b>	<b>Lab ID: K2307317-004</b>
-------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	1550		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	213		0.009	0.020	ug/L	200.8
Iron, Dissolved	140000		6	40	ug/L	200.8
Manganese, Dissolved	13000		0.8	10	ug/L	200.8



## Sample Receipt Information

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 task 06


**Service Request:**K2307317

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2307317-001	GC-COL-MW-1-PM-1	6/26/2023	1252
K2307317-002	GC-COL-MW-1-INF-1	6/26/2023	1352
K2307317-003	GC-COL-MW-1-PM-2	6/26/2023	1602
K2307317-004	GC-COL-MW-1-INF-2	6/26/2023	1705

W2307317

**Chain of Custody Record & Laboratory Analysis Request**

Laboratory Number: 503-972-5019					No. of Containers	Parameters												 Masa Kanematsu 6720 S Macadam Ave Suite 300 Portland OR 97219							
Date:	6/27/2023					Dissolved As, Co, Fe, Mn																			
Project Name:	Greene County - 2023 & 2024																								
Project Number:	221114-05.02 task 06																								
Project Manager:	Masa Kanematsu																								
Phone Number:	503-972-5001 (backup: 503-798-3456)																								
Shipment Method:	ALS Courier																								
Line	Field Sample ID	Collection		Matrix	No. of Containers	Dissolved As, Co, Fe, Mn	Parameters															Comments/Preservation			
		Date	Time																						
1	GC-COL-MW-1-PM-1	6/26/2023	12:52	Water	1	X																		HNO3-preserved. 0.45 µm-filtered. 3-day TAT.	
2	GC-COL-MW-1-INF-1	6/26/2023	13:52	Water	1	X																		HNO3-preserved. 0.45 µm-filtered. 3-day TAT.	
3	GC-COL-MW-1-PM-2	6/26/2023	16:02	Water	1	X																		HNO3-preserved. 0.45 µm-filtered. 3-day TAT.	
4	GC-COL-MW-1-INF-2	6/26/2023	17:05	Water	1	X																		HNO3-preserved. 0.45 µm-filtered. 3-day TAT.	
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchorqea.com) if running > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb. Please analyze on a 3-day TAT.

Relinquished by: Emma Nordlund	Company: Anchor QEA
Signature/Print Name: <i>emma nordlund</i>	Date/Time: 6/27/23 08:30
Relinquished by: <i>Greg Rich</i>	Company: ALS
Signature/Print Name: <i>Greg Rich</i>	Date/Time: 6-27-23 12:15 PM

Received by: <i>Greg Rich</i>
Signature/Print Name: <i>Greg Rich 6-27-23 10:15</i>
Received by: <i>Wesley ALS</i>
Signature/Print Name: <i>Wesley ALS 6/27/23 12:15</i>

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

PM MIT

### Cooler Receipt and Preservation Form

Client Anchos Service Request K23 07317  
Received: 6/27/23 Opened: 6/27/23 By: VIM Unloaded: 6/27/23 By: VIM

- 1. Samples were received via? **USPS** *Fed Ex* *UPS* *DHL* *PDX* Courier *Hand Delivered*
- 2. Samples were received in: (circle) Cooler *Box* *Envelope* *Other* NA
- 3. Were custody seals on coolers? *NA* *Y* N If yes, how many and where? \_\_\_\_\_  
If present, were custody seals intact? *Y* *N* If present, were they signed and dated? *Y* *N*

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
<u>3.8</u>		<u>IR02</u>					

- 4. Was a Temperature Blank present in cooler? *NA* Y *N* If yes, notate the temperature in the appropriate column above:  
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
- 5. Were samples received within the method specified temperature ranges? *NA* Y *N*  
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y *N*
- If applicable, tissue samples were received: *Frozen* *Partially Thawed* *Thawed*
- 6. Packing material: *Inserts* Baggies *Bubble Wrap* *Gel Packs* Wet Ice *Dry Ice* *Sleeves* \_\_\_\_\_
- 7. Were custody papers properly filled out (ink, signed, etc.)? *NA* Y *N*
- 8. Were samples received in good condition (unbroken) *NA* Y *N*
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)? *NA* Y *N*
- 10. Did all sample labels and tags agree with custody papers? *NA* Y *N*
- 11. Were appropriate bottles/containers and volumes received for the tests indicated? *NA* Y *N*
- 12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA *Y* *N*
- 13. Were VOA vials received without headspace? *Indicate in the table below.* NA *Y* *N*
- 14. Was C12/Res negative? NA *Y* *N*
- 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA *Y* *N*
- 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA *Y* *N* Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Dicrit pH due to limited volume



## Miscellaneous Forms

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[www.alsglobal.com](http://www.alsglobal.com)

### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.



**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso  
State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEH	<a href="http://dec.alaska.gov/eh/lab/cs/csapproval.htm">http://dec.alaska.gov/eh/lab/cs/csapproval.htm</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2795
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L16-58-R4
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Hawaii DOH	<a href="http://health.hawaii.gov/">http://health.hawaii.gov/</a>	-
ISO 17025	<a href="http://www.pjllabs.com/">http://www.pjllabs.com/</a>	L16-57
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	03016
Maine DHS	<a href="http://www.maine.gov/dhhs/">http://www.maine.gov/dhhs/</a>	WA01276
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-457
Nevada DEP	<a href="http://ndep.nv.gov/bsdw/labservice.htm">http://ndep.nv.gov/bsdw/labservice.htm</a>	WA01276
New Jersey DEP	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	WA005
New York - DOH	<a href="https://www.wadsworth.org/regulatory/elap">https://www.wadsworth.org/regulatory/elap</a>	12060
North Carolina DEQ	<a href="https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification">https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA100010
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/EnvironmentalLabCertification/">http://www.scdhec.gov/environment/EnvironmentalLabCertification/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704427
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C544
Wyoming (EPA Region 8)	<a href="https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water">https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water</a>	-
Kelso Laboratory Website	<a href="http://www.alsglobal.com">www.alsglobal.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.ALSGlobal.com](http://www.ALSGlobal.com) or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 task 06

**Service Request:** K2307317

**Sample Name:** GC-COL-MW-1-PM-1  
**Lab Code:** K2307317-001  
**Sample Matrix:** Water

**Date Collected:** 06/26/23  
**Date Received:** 06/27/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-MW-1-INF-1  
**Lab Code:** K2307317-002  
**Sample Matrix:** Water

**Date Collected:** 06/26/23  
**Date Received:** 06/27/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-MW-1-PM-2  
**Lab Code:** K2307317-003  
**Sample Matrix:** Water

**Date Collected:** 06/26/23  
**Date Received:** 06/27/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-MW-1-INF-2  
**Lab Code:** K2307317-004  
**Sample Matrix:** Water

**Date Collected:** 06/26/23  
**Date Received:** 06/27/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER



# Sample Results

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



# Metals

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-1  
**Lab Code:** K2307317-001

**Service Request:** K2307317  
**Date Collected:** 06/26/23 12:52  
**Date Received:** 06/27/23 12:15  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Arsenic	200.8	<b>0.54</b>	ug/L	0.50	0.09	1	07/03/23 14:06	06/29/23	
Cobalt	200.8	<b>0.168</b>	ug/L	0.020	0.009	1	07/03/23 14:06	06/29/23	
Iron	200.8	<b>8.8</b>	ug/L	2.0	0.3	1	07/03/23 14:06	06/29/23	
Manganese	200.8	<b>10600</b>	ug/L	10	0.8	20	07/03/23 15:11	06/29/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-INF-1  
**Lab Code:** K2307317-002

**Service Request:** K2307317  
**Date Collected:** 06/26/23 13:52  
**Date Received:** 06/27/23 12:15  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	1640	ug/L	0.50	0.09	1	07/03/23 14:09	06/29/23	
Cobalt	200.8	219	ug/L	0.020	0.009	1	07/03/23 14:09	06/29/23	
Iron	200.8	140000	ug/L	40	6	20	07/03/23 14:52	06/29/23	
Manganese	200.8	13100	ug/L	10	0.8	20	07/03/23 14:52	06/29/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-2  
**Lab Code:** K2307317-003

**Service Request:** K2307317  
**Date Collected:** 06/26/23 16:02  
**Date Received:** 06/27/23 12:15  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Arsenic	200.8	<b>0.16 J</b>	ug/L	0.50	0.09	1	07/03/23 14:34	06/29/23	
Cobalt	200.8	<b>2.20</b>	ug/L	0.020	0.009	1	07/03/23 14:34	06/29/23	
Iron	200.8	<b>2.7</b>	ug/L	2.0	0.3	1	07/03/23 14:34	06/29/23	
Manganese	200.8	<b>2840</b>	ug/L	0.50	0.04	1	07/03/23 14:34	06/29/23	



ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-INF-2  
**Lab Code:** K2307317-004

**Service Request:** K2307317  
**Date Collected:** 06/26/23 17:05  
**Date Received:** 06/27/23 12:15  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	1550	ug/L	0.50	0.09	1	07/03/23 14:36	06/29/23	
Cobalt	200.8	213	ug/L	0.020	0.009	1	07/03/23 14:36	06/29/23	
Iron	200.8	140000	ug/L	40	6	20	07/03/23 14:54	06/29/23	
Manganese	200.8	13000	ug/L	10	0.8	20	07/03/23 14:54	06/29/23	



# QC Summary Forms

**ALS Environmental—Kelso Laboratory**  
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# Metals

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ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** KQ2311554-01

**Service Request:** K2307317  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	07/03/23 13:21	06/29/23	
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	07/03/23 13:21	06/29/23	
Iron	200.8	ND U	ug/L	2.0	0.3	1	07/03/23 13:21	06/29/23	
Manganese	200.8	<b>0.07 J</b>	ug/L	0.50	0.04	1	07/03/23 13:21	06/29/23	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water

**Service Request:** K2307317  
**Date Analyzed:** 07/03/23

**Lab Control Sample Summary**  
**Dissolved Metals**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
KQ2311554-02

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Arsenic	200.8	48.5	50.0	97	85-115
Cobalt	200.8	24.7	25.0	99	85-115
Iron	200.8	48.5	50.0	97	85-115
Manganese	200.8	24.5	25.0	98	85-115



July 05, 2023

Service Request No:K2307318

Masa Kanematsu  
Anchor QEA, LLC  
6720 SW Macadam Avenue  
Suite 125  
Portland, OR 97219

**Laboratory Results for: Greene County-2023 & 2024**

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory June 27, 2023  
For your reference, these analyses have been assigned our service request number **K2307318**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at [Mark.Harris@alsglobal.com](mailto:Mark.Harris@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Mark Harris  
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626  
PHONE +1 360 577 7222 | FAX +1 360 636 1068  
ALS Group USA, Corp.  
dba ALS Environmental



# Narrative Documents

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024  
**Sample Matrix:** Water

**Service Request:** K2307318  
**Date Received:** 06/27/2023

**CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

**Sample Receipt:**

Four water samples were received for analysis at ALS Environmental on 06/27/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

**Metals:**

No significant anomalies were noted with this analysis.

Approved by \_\_\_\_\_

Date 07/05/2023





### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

<b>CLIENT ID: GC-COL-MW-44H-PM-1</b>	<b>Lab ID: K2307318-001</b>
--------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	1.91		0.009	0.020	ug/L	200.8
Iron, Dissolved	35.9		0.3	2.0	ug/L	200.8
Manganese, Dissolved	4400		0.04	0.50	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-INF-1</b>	<b>Lab ID: K2307318-002</b>
---------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	243		0.009	0.020	ug/L	200.8
Iron, Dissolved	1820		0.3	2.0	ug/L	200.8
Manganese, Dissolved	8010		0.04	0.50	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-PM-2</b>	<b>Lab ID: K2307318-003</b>
--------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.797		0.009	0.020	ug/L	200.8
Iron, Dissolved	8.8		0.3	2.0	ug/L	200.8
Manganese, Dissolved	760		0.04	0.50	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-INF-2</b>	<b>Lab ID: K2307318-004</b>
---------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	240		0.009	0.020	ug/L	200.8
Iron, Dissolved	1680		0.3	2.0	ug/L	200.8
Manganese, Dissolved	7860		0.04	0.50	ug/L	200.8



## Sample Receipt Information

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 task 06


**Service Request:**K2307318

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2307318-001	GC-COL-MW-44H-PM-1	6/26/2023	1253
K2307318-002	GC-COL-MW-44H-INF-1	6/26/2023	1353
K2307318-003	GC-COL-MW-44H-PM-2	6/26/2023	1603
K2307318-004	GC-COL-MW-44H-INF-2	6/26/2023	1706

42307318

**Chain of Custody Record & Laboratory Analysis Request**

Laboratory Number: 503-972-5019					No. of Containers	Parameters										 Masa Kanematsu 6720 S Macadam Ave Suite 300 Portland OR 97219  Comments/Preservation							
Date:	6/27/2023																						
Project Name:	Greene County - 2023 & 2024																						
Project Number:	221114-05.02 task 06																						
Project Manager:	Masa Kanematsu																						
Phone Number:	503-972-5001 (backup: 503-798-3456)																						
Shipment Method:	ALS Courier																						
Line	Field Sample ID	Collection		Matrix	No. of Containers	Dissolved Co, Fe, Mn											Comments/Preservation						
		Date	Time																				
1	GC-COL-MW-44H-PM-1	6/26/2023	12:53	Water	1	X																	HNO3-preserved. 0.45 µm-filtered.
2	GC-COL-MW-44H-INF-1	6/26/2023	13:53	Water	1	X																	HNO3-preserved. 0.45 µm-filtered.
3	GC-COL-MW-44H-PM-2	6/26/2023	16:03	Water	1	X																	HNO3-preserved. 0.45 µm-filtered.
4	GC-COL-MW-44H-INF-2	6/26/2023	17:06	Water	1	X																	HNO3-preserved. 0.45 µm-filtered.
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							
16																							
17																							
18																							
19																							
20																							

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchorqea.com) if running > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb. Please analyze on a 10-day TAT.

Relinquished by: Emma Nordlund	Company: Anchor QEA
Signature/Print Name: <i>Emma Nordlund</i>	Date/Time: 6/27/23 08:30

Received by: <i>Greg Rich</i>
Signature/Print Name: <i>Greg Rich 6-27-23 10:15</i>

Relinquished by: <i>Greg Rich</i>	Company: ALS
Signature/Print Name: <i>Greg Rich</i>	Date/Time: 6-27-23 12:15 PM

Received by: <i>Wendy M. Folo</i>	ALS
Signature/Print Name: <i>Wendy M. Folo 6/27/23 12:15</i>	

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

PM MH

### Cooler Receipt and Preservation Form

Client Anchorage Service Request K23 07318  
 Received: 01/27/23 Opened: 01/27/23 By: VMM Unloaded: 01/27/23 By: VMM

1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered  
 2. Samples were received in: (circle) Cooler Box Envelope Other NA  
 3. Were custody seals on coolers? NA Y N If yes, how many and where? \_\_\_\_\_  
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
<u>3.8</u>		<u>IR02</u>					

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:  
 If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":

5. Were samples received within the method specified temperature ranges? NA Y N  
 If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N

If applicable, tissue samples were received: Frozen Partially Thawed Thawed

6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves

7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N  
 8. Were samples received in good condition (unbroken) NA Y N  
 9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N  
 10. Did all sample labels and tags agree with custody papers? NA Y N  
 11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N  
 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N  
 13. Were VOA vials received without headspace? Indicate in the table below. NA Y N  
 14. Was C12/Res negative? NA Y N  
 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N  
 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head- space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Dilut ph due to limited volume



## Miscellaneous Forms

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[www.alsglobal.com](http://www.alsglobal.com)

### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso  
State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEH	<a href="http://dec.alaska.gov/eh/lab/cs/csapproval.htm">http://dec.alaska.gov/eh/lab/cs/csapproval.htm</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2795
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L16-58-R4
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Hawaii DOH	<a href="http://health.hawaii.gov/">http://health.hawaii.gov/</a>	-
ISO 17025	<a href="http://www.pjllabs.com/">http://www.pjllabs.com/</a>	L16-57
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	03016
Maine DHS	<a href="http://www.maine.gov/dhhs/">http://www.maine.gov/dhhs/</a>	WA01276
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-457
Nevada DEP	<a href="http://ndep.nv.gov/bsdw/labservice.htm">http://ndep.nv.gov/bsdw/labservice.htm</a>	WA01276
New Jersey DEP	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	WA005
New York - DOH	<a href="https://www.wadsworth.org/regulatory/elap">https://www.wadsworth.org/regulatory/elap</a>	12060
North Carolina DEQ	<a href="https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification">https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA100010
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/EnvironmentalLabCertification/">http://www.scdhec.gov/environment/EnvironmentalLabCertification/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704427
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C544
Wyoming (EPA Region 8)	<a href="https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water">https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water</a>	-
Kelso Laboratory Website	<a href="http://www.alsglobal.com">www.alsglobal.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.ALSGlobal.com](http://www.ALSGlobal.com) or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.



## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 task 06

**Service Request:** K2307318

**Sample Name:** GC-COL-MW-44H-PM-1  
**Lab Code:** K2307318-001  
**Sample Matrix:** Water

**Date Collected:** 06/26/23  
**Date Received:** 06/27/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-MW-44H-INF-1  
**Lab Code:** K2307318-002  
**Sample Matrix:** Water

**Date Collected:** 06/26/23  
**Date Received:** 06/27/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-MW-44H-PM-2  
**Lab Code:** K2307318-003  
**Sample Matrix:** Water

**Date Collected:** 06/26/23  
**Date Received:** 06/27/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-MW-44H-INF-2  
**Lab Code:** K2307318-004  
**Sample Matrix:** Water

**Date Collected:** 06/26/23  
**Date Received:** 06/27/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER



# Sample Results

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
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# Metals

**ALS Environmental—Kelso Laboratory**  
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Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-PM-1  
**Lab Code:** K2307318-001

**Service Request:** K2307318  
**Date Collected:** 06/26/23 12:53  
**Date Received:** 06/27/23 12:15  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	<b>1.91</b>	ug/L	0.020	0.009	1	07/03/23 14:38	06/29/23	
Iron	200.8	<b>35.9</b>	ug/L	2.0	0.3	1	07/03/23 14:38	06/29/23	
Manganese	200.8	<b>4400</b>	ug/L	0.50	0.04	1	07/03/23 14:38	06/29/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-INF-1  
**Lab Code:** K2307318-002

**Service Request:** K2307318  
**Date Collected:** 06/26/23 13:53  
**Date Received:** 06/27/23 12:15  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	<b>243</b>	ug/L	0.020	0.009	1	07/03/23 14:43	06/29/23	
Iron	200.8	<b>1820</b>	ug/L	2.0	0.3	1	07/03/23 14:43	06/29/23	
Manganese	200.8	<b>8010</b>	ug/L	0.50	0.04	1	07/03/23 14:43	06/29/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-PM-2  
**Lab Code:** K2307318-003

**Service Request:** K2307318  
**Date Collected:** 06/26/23 16:03  
**Date Received:** 06/27/23 12:15  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	<b>0.797</b>	ug/L	0.020	0.009	1	07/03/23 14:45	06/29/23	
Iron	200.8	<b>8.8</b>	ug/L	2.0	0.3	1	07/03/23 14:45	06/29/23	
Manganese	200.8	<b>760</b>	ug/L	0.50	0.04	1	07/03/23 14:45	06/29/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-INF-2  
**Lab Code:** K2307318-004

**Service Request:** K2307318  
**Date Collected:** 06/26/23 17:06  
**Date Received:** 06/27/23 12:15  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	<b>240</b>	ug/L	0.020	0.009	1	07/03/23 14:47	06/29/23	
Iron	200.8	<b>1680</b>	ug/L	2.0	0.3	1	07/03/23 14:47	06/29/23	
Manganese	200.8	<b>7860</b>	ug/L	0.50	0.04	1	07/03/23 14:47	06/29/23	





# QC Summary Forms

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# Metals

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ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** KQ2311554-01

**Service Request:** K2307318  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	07/03/23 13:21	06/29/23	
Iron	200.8	ND U	ug/L	2.0	0.3	1	07/03/23 13:21	06/29/23	
Manganese	200.8	<b>0.07 J</b>	ug/L	0.50	0.04	1	07/03/23 13:21	06/29/23	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water

**Service Request:** K2307318  
**Date Analyzed:** 07/03/23

**Lab Control Sample Summary**  
**Dissolved Metals**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
KQ2311554-02

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Cobalt	200.8	24.7	25.0	99	85-115
Iron	200.8	48.5	50.0	97	85-115
Manganese	200.8	24.5	25.0	98	85-115



July 10, 2023

Service Request No:K2307482

Masa Kanematsu  
Anchor QEA, LLC  
6720 SW Macadam Avenue  
Suite 125  
Portland, OR 97219

**Laboratory Results for: Greene County-2023 & 2024**

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory June 30, 2023  
For your reference, these analyses have been assigned our service request number **K2307482**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at [Mark.Harris@alsglobal.com](mailto:Mark.Harris@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Mark Harris  
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626  
PHONE +1 360 577 7222 | FAX +1 360 636 1068  
ALS Group USA, Corp.  
dba ALS Environmental



# Narrative Documents

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024  
**Sample Matrix:** Water

**Service Request:** K2307482  
**Date Received:** 06/30/2023

### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

#### Sample Receipt:

Twelve water samples were received for analysis at ALS Environmental on 06/30/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

#### Metals:

No significant anomalies were noted with this analysis.

Approved by 

Date 07/10/2023



### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

<b>CLIENT ID: GC-COL-MW-1-PM-3</b>	<b>Lab ID: K2307482-001</b>
------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	2.05		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	260		0.009	0.020	ug/L	200.8
Iron, Dissolved	106000		30	400	ug/L	200.8
Manganese, Dissolved	18700		4	60	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-1-INF-3</b>	<b>Lab ID: K2307482-003</b>
-------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	1310		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	221		0.009	0.020	ug/L	200.8
Iron, Dissolved	142000		30	400	ug/L	200.8
Manganese, Dissolved	12900		4	60	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-1-PM-4</b>	<b>Lab ID: K2307482-005</b>
------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	2.15		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	218		0.009	0.020	ug/L	200.8
Iron, Dissolved	111000		30	400	ug/L	200.8
Manganese, Dissolved	14000		4	60	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-1-INF-4</b>	<b>Lab ID: K2307482-007</b>
-------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.36	J	0.09	0.50	ug/L	200.8
Cobalt, Dissolved	245		0.009	0.020	ug/L	200.8
Iron, Dissolved	982		0.3	4.0	ug/L	200.8
Manganese, Dissolved	7560		0.04	0.60	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-1-PM-5</b>	<b>Lab ID: K2307482-009</b>
------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	2.28		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	215		0.009	0.020	ug/L	200.8
Iron, Dissolved	115000		30	400	ug/L	200.8
Manganese, Dissolved	13300		4	60	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-1-INF-5</b>	<b>Lab ID: K2307482-011</b>
-------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	1180		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	226		0.009	0.020	ug/L	200.8
Iron, Dissolved	143000		30	400	ug/L	200.8
Manganese, Dissolved	12900		4	60	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-PM-3</b>	<b>Lab ID: K2307482-002</b>
--------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	6.65		0.009	0.020	ug/L	200.8





### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

<b>CLIENT ID: GC-COL-MW-44H-PM-3</b>	<b>Lab ID: K2307482-002</b>
--------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	17.7		0.3	4.0	ug/L	200.8
Manganese, Dissolved	529		0.04	0.60	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-INF-3</b>	<b>Lab ID: K2307482-004</b>
---------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	247		0.009	0.020	ug/L	200.8
Iron, Dissolved	1180		0.3	4.0	ug/L	200.8
Manganese, Dissolved	7890		0.04	0.60	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-PM-4</b>	<b>Lab ID: K2307482-006</b>
--------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	11.3		0.009	0.020	ug/L	200.8
Iron, Dissolved	15.1		0.3	4.0	ug/L	200.8
Manganese, Dissolved	1170		0.04	0.60	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-INF-4</b>	<b>Lab ID: K2307482-008</b>
---------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	226		0.009	0.020	ug/L	200.8
Iron, Dissolved	143000		30	400	ug/L	200.8
Manganese, Dissolved	13000		4	60	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-PM-5</b>	<b>Lab ID: K2307482-010</b>
--------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	13.4		0.009	0.020	ug/L	200.8
Iron, Dissolved	21.5		0.3	4.0	ug/L	200.8
Manganese, Dissolved	1640		0.04	0.60	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-INF-5</b>	<b>Lab ID: K2307482-012</b>
---------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	252		0.009	0.020	ug/L	200.8
Iron, Dissolved	848		0.3	4.0	ug/L	200.8
Manganese, Dissolved	7840		0.04	0.60	ug/L	200.8



## Sample Receipt Information

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06

**Service Request:**K2307482

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2307482-001	GC-COL-MW-1-PM-3	6/27/2023	0753
K2307482-002	GC-COL-MW-44H-PM-3	6/27/2023	0754
K2307482-003	GC-COL-MW-1-INF-3	6/27/2023	0853
K2307482-004	GC-COL-MW-44H-INF-3	6/27/2023	0854
K2307482-005	GC-COL-MW-1-PM-4	6/27/2023	1201
K2307482-006	GC-COL-MW-44H-PM-4	6/27/2023	1202
K2307482-007	GC-COL-MW-1-INF-4	6/27/2023	1305
K2307482-008	GC-COL-MW-44H-INF-4	6/27/2023	1306
K2307482-009	GC-COL-MW-1-PM-5	6/27/2023	1600
K2307482-010	GC-COL-MW-44H-PM-5	6/27/2023	1601
K2307482-011	GC-COL-MW-1-INF-5	6/27/2023	1700
K2307482-012	GC-COL-MW-44H-INF-5	6/27/2023	1701



PM Black

### Cooler Receipt and Preservation Form

Client Ancher Service Request K23 07482  
Received: 6/30/23 Opened: 6/30/23 By: MP Unloaded: 6/30/23 By: MP

- 1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
- 2. Samples were received in: (circle) Cooler Box Envelope Other NA
- 3. Were custody seals on coolers? NA Y N If yes, how many and where? \_\_\_\_\_  
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified if out of temp	Tracking Number	NA	Filed
<u>5.8</u>		<u>1802</u>						

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:  
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":

5. Were samples received within the method specified temperature ranges? NA Y N  
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N

If applicable, tissue samples were received: Frozen Partially Thawed Thawed

- 6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves \_\_\_\_\_
- 7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- 8. Were samples received in good condition (unbroken) NA Y N
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
- 10. Did all sample labels and tags agree with custody papers? NA Y N
- 11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
- 13. Were VOA vials received without headspace? Indicate in the table below. NA Y N
- 14. Was C12/Res negative? NA Y N
- 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N
- 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Did not Ph due to limited volume



## Miscellaneous Forms

**ALS Environmental—Kelso Laboratory**  
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[www.alsglobal.com](http://www.alsglobal.com)

### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso  
State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEH	<a href="http://dec.alaska.gov/eh/lab/cs/csapproval.htm">http://dec.alaska.gov/eh/lab/cs/csapproval.htm</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2795
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L16-58-R4
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Hawaii DOH	<a href="http://health.hawaii.gov/">http://health.hawaii.gov/</a>	-
ISO 17025	<a href="http://www.pjllabs.com/">http://www.pjllabs.com/</a>	L16-57
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	03016
Maine DHS	<a href="http://www.maine.gov/dhhs/">http://www.maine.gov/dhhs/</a>	WA01276
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-457
Nevada DEP	<a href="http://ndep.nv.gov/bsdw/labservice.htm">http://ndep.nv.gov/bsdw/labservice.htm</a>	WA01276
New Jersey DEP	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	WA005
New York - DOH	<a href="https://www.wadsworth.org/regulatory/elap">https://www.wadsworth.org/regulatory/elap</a>	12060
North Carolina DEQ	<a href="https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification">https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA100010
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/EnvironmentalLabCertification/">http://www.scdhec.gov/environment/EnvironmentalLabCertification/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704427
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C544
Wyoming (EPA Region 8)	<a href="https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water">https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water</a>	-
Kelso Laboratory Website	<a href="http://www.alsglobal.com">www.alsglobal.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.ALSGlobal.com](http://www.ALSGlobal.com) or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.



## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06

**Service Request:** K2307482

**Sample Name:** GC-COL-MW-1-PM-3  
**Lab Code:** K2307482-001  
**Sample Matrix:** Water

**Date Collected:** 06/27/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-MW-44H-PM-3  
**Lab Code:** K2307482-002  
**Sample Matrix:** Water

**Date Collected:** 06/27/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-MW-1-INF-3  
**Lab Code:** K2307482-003  
**Sample Matrix:** Water

**Date Collected:** 06/27/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-MW-44H-INF-3  
**Lab Code:** K2307482-004  
**Sample Matrix:** Water

**Date Collected:** 06/27/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-MW-1-PM-4  
**Lab Code:** K2307482-005  
**Sample Matrix:** Water

**Date Collected:** 06/27/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06

**Service Request:** K2307482

**Sample Name:** GC-COL-MW-44H-PM-4  
**Lab Code:** K2307482-006  
**Sample Matrix:** Water

**Date Collected:** 06/27/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-MW-1-INF-4  
**Lab Code:** K2307482-007  
**Sample Matrix:** Water

**Date Collected:** 06/27/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-MW-44H-INF-4  
**Lab Code:** K2307482-008  
**Sample Matrix:** Water

**Date Collected:** 06/27/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-44H-INF-4  
**Lab Code:** K2307482-008.R01  
**Sample Matrix:** Water

**Date Collected:** 06/27/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-MW-1-PM-5  
**Lab Code:** K2307482-009  
**Sample Matrix:** Water

**Date Collected:** 06/27/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06

**Service Request:** K2307482

**Sample Name:** GC-COL-MW-44H-PM-5  
**Lab Code:** K2307482-010  
**Sample Matrix:** Water

**Date Collected:** 06/27/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-MW-1-INF-5  
**Lab Code:** K2307482-011  
**Sample Matrix:** Water

**Date Collected:** 06/27/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-MW-44H-INF-5  
**Lab Code:** K2307482-012  
**Sample Matrix:** Water

**Date Collected:** 06/27/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
EMCALLISTER



# Sample Results

**ALS Environmental—Kelso Laboratory**  
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# Metals

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Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

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dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-3  
**Lab Code:** K2307482-001

**Service Request:** K2307482  
**Date Collected:** 06/27/23 07:53  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	2.05	ug/L	0.50	0.09	1	07/06/23 17:50	07/03/23	
Cobalt	200.8	260	ug/L	0.020	0.009	1	07/06/23 17:50	07/03/23	
Iron	200.8	106000	ug/L	400	30	100	07/06/23 18:44	07/03/23	
Manganese	200.8	18700	ug/L	60	4	100	07/06/23 18:44	07/03/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-PM-3  
**Lab Code:** K2307482-002

**Service Request:** K2307482  
**Date Collected:** 06/27/23 07:54  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	6.65	ug/L	0.020	0.009	1	07/06/23 17:52	07/03/23	
Iron	200.8	17.7	ug/L	4.0	0.3	1	07/06/23 17:52	07/03/23	
Manganese	200.8	529	ug/L	0.60	0.04	1	07/06/23 17:52	07/03/23	



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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-INF-3  
**Lab Code:** K2307482-003

**Service Request:** K2307482  
**Date Collected:** 06/27/23 08:53  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	1310	ug/L	0.50	0.09	1	07/06/23 17:53	07/03/23	
Cobalt	200.8	221	ug/L	0.020	0.009	1	07/06/23 17:53	07/03/23	
Iron	200.8	142000	ug/L	400	30	100	07/06/23 18:52	07/03/23	
Manganese	200.8	12900	ug/L	60	4	100	07/06/23 18:52	07/03/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-INF-3  
**Lab Code:** K2307482-004

**Service Request:** K2307482  
**Date Collected:** 06/27/23 08:54  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	<b>247</b>	ug/L	0.020	0.009	1	07/06/23 18:28	07/03/23	
Iron	200.8	<b>1180</b>	ug/L	4.0	0.3	1	07/06/23 18:28	07/03/23	
Manganese	200.8	<b>7890</b>	ug/L	0.60	0.04	1	07/06/23 18:28	07/03/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-4  
**Lab Code:** K2307482-005

**Service Request:** K2307482  
**Date Collected:** 06/27/23 12:01  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	2.15	ug/L	0.50	0.09	1	07/06/23 18:29	07/03/23	
Cobalt	200.8	218	ug/L	0.020	0.009	1	07/06/23 18:29	07/03/23	
Iron	200.8	111000	ug/L	400	30	100	07/06/23 18:58	07/03/23	
Manganese	200.8	14000	ug/L	60	4	100	07/06/23 18:58	07/03/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-PM-4  
**Lab Code:** K2307482-006

**Service Request:** K2307482  
**Date Collected:** 06/27/23 12:02  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	<b>11.3</b>	ug/L	0.020	0.009	1	07/06/23 18:31	07/03/23	
Iron	200.8	<b>15.1</b>	ug/L	4.0	0.3	1	07/06/23 18:31	07/03/23	
Manganese	200.8	<b>1170</b>	ug/L	0.60	0.04	1	07/06/23 18:31	07/03/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-INF-4  
**Lab Code:** K2307482-007

**Service Request:** K2307482  
**Date Collected:** 06/27/23 13:05  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Arsenic	200.8	<b>0.36 J</b>	ug/L	0.50	0.09	1	07/06/23 18:33	07/03/23	
Cobalt	200.8	<b>245</b>	ug/L	0.020	0.009	1	07/06/23 18:33	07/03/23	
Iron	200.8	<b>982</b>	ug/L	4.0	0.3	1	07/06/23 18:33	07/03/23	
Manganese	200.8	<b>7560</b>	ug/L	0.60	0.04	1	07/06/23 18:33	07/03/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-INF-4  
**Lab Code:** K2307482-008

**Service Request:** K2307482  
**Date Collected:** 06/27/23 13:06  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	226	ug/L	0.020	0.009	1	07/07/23 11:42	07/03/23	
Iron	200.8	143000	ug/L	400	30	100	07/06/23 18:59	07/03/23	
Manganese	200.8	13000	ug/L	60	4	100	07/06/23 18:59	07/03/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-5  
**Lab Code:** K2307482-009

**Service Request:** K2307482  
**Date Collected:** 06/27/23 16:00  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	2.28	ug/L	0.50	0.09	1	07/06/23 18:37	07/03/23	
Cobalt	200.8	215	ug/L	0.020	0.009	1	07/06/23 18:37	07/03/23	
Iron	200.8	115000	ug/L	400	30	100	07/06/23 19:01	07/03/23	
Manganese	200.8	13300	ug/L	60	4	100	07/06/23 19:01	07/03/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-PM-5  
**Lab Code:** K2307482-010

**Service Request:** K2307482  
**Date Collected:** 06/27/23 16:01  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	13.4	ug/L	0.020	0.009	1	07/06/23 18:39	07/03/23	
Iron	200.8	21.5	ug/L	4.0	0.3	1	07/06/23 18:39	07/03/23	
Manganese	200.8	1640	ug/L	0.60	0.04	1	07/06/23 18:39	07/03/23	



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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-INF-5  
**Lab Code:** K2307482-011

**Service Request:** K2307482  
**Date Collected:** 06/27/23 17:00  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	<b>1180</b>	ug/L	0.50	0.09	1	07/06/23 18:41	07/03/23	
Cobalt	200.8	<b>226</b>	ug/L	0.020	0.009	1	07/06/23 18:41	07/03/23	
Iron	200.8	<b>143000</b>	ug/L	400	30	100	07/06/23 19:03	07/03/23	
Manganese	200.8	<b>12900</b>	ug/L	60	4	100	07/06/23 19:03	07/03/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-INF-5  
**Lab Code:** K2307482-012

**Service Request:** K2307482  
**Date Collected:** 06/27/23 17:01  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	252	ug/L	0.020	0.009	1	07/06/23 18:42	07/03/23	
Iron	200.8	848	ug/L	4.0	0.3	1	07/06/23 18:42	07/03/23	
Manganese	200.8	7840	ug/L	0.60	0.04	1	07/06/23 18:42	07/03/23	



# QC Summary Forms

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# Metals

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**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** KQ2311762-05

**Service Request:** K2307482  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

**Dissolved Metals**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	07/06/23 17:40	07/03/23	
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	07/06/23 17:40	07/03/23	
Iron	200.8	ND U	ug/L	4.0	0.3	1	07/06/23 17:40	07/03/23	
Manganese	200.8	<b>0.04 J</b>	ug/L	0.60	0.04	1	07/06/23 17:40	07/03/23	

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QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water

**Service Request:** K2307482  
**Date Collected:** 06/27/23  
**Date Received:** 06/30/23  
**Date Analyzed:** 07/6/23  
**Date Extracted:** 07/3/23

**Matrix Spike Summary**  
**Dissolved Metals**

**Sample Name:** GC-COL-MW-1-INF-3  
**Lab Code:** K2307482-003  
**Analysis Method:** 200.8  
**Prep Method:** EPA CLP ILM04.0

**Units:** ug/L  
**Basis:** NA

**Matrix Spike**  
KQ2311762-03

<b>Analyte Name</b>	<b>Sample Result</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Arsenic	1310	1360	50.0	103 #	70-130
Cobalt	221	248	25.0	108 #	70-130
Iron	142000	140000	50	-5694 #	70-130
Manganese	12900	12800	25	-425 #	70-130

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Greene County-2023 & 2024/221114-05.02 Task 06
Sample Matrix: Water

Service Request: K2307482
Date Collected: 06/27/23
Date Received: 06/30/23
Date Analyzed: 07/06/23

Replicate Sample Summary

Dissolved Metals

Sample Name: GC-COL-MW-1-INF-3
Lab Code: K2307482-003

Units: ug/L
Basis: NA

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2311762-04 Result, Average, RPD, RPD Limit. Rows include Arsenic, Cobalt, Iron, and Manganese.

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water

**Service Request:** K2307482  
**Date Analyzed:** 07/06/23

**Lab Control Sample Summary**  
**Dissolved Metals**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
KQ2311762-06

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Arsenic	200.8	49.6	50.0	99	85-115
Cobalt	200.8	25.4	25.0	101	85-115
Iron	200.8	49.6	50.0	99	85-115
Manganese	200.8	25.1	25.0	101	85-115





July 10, 2023

Service Request No:K2307486

Masa Kanematsu  
Anchor QEA, LLC  
6720 SW Macadam Avenue  
Suite 125  
Portland, OR 97219

**Laboratory Results for: Greene County-2023 & 2024**

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory June 30, 2023  
For your reference, these analyses have been assigned our service request number **K2307486**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at [Mark.Harris@alsglobal.com](mailto:Mark.Harris@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Mark Harris  
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626  
PHONE +1 360 577 7222 | FAX +1 360 636 1068  
ALS Group USA, Corp.  
dba ALS Environmental



# Narrative Documents

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024  
**Sample Matrix:** Water

**Service Request:** K2307486  
**Date Received:** 06/30/2023

**CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

**Sample Receipt:**

Twenty water samples were received for analysis at ALS Environmental on 06/30/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

**Metals:**

No significant anomalies were noted with this analysis.

*Noel D. O'Connell*

Approved by \_\_\_\_\_

Date 07/10/2023



**SAMPLE DETECTION SUMMARY**

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

**CLIENT ID: GC-COL-MW-1-PM-6 Lab ID: K2307486-001**

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	1.97		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	229		0.009	0.020	ug/L	200.8
Iron, Dissolved	111000		30	200	ug/L	200.8
Manganese, Dissolved	12700		4	20	ug/L	200.8

**CLIENT ID: GC-COL-MW-1-INF-6 Lab ID: K2307486-003**

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	923		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	232		0.009	0.020	ug/L	200.8
Iron, Dissolved	144000		30	200	ug/L	200.8
Manganese, Dissolved	12700		4	20	ug/L	200.8

**CLIENT ID: GC-COL-MW-1-PM-7 Lab ID: K2307486-005**

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	1.83		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	228		0.009	0.020	ug/L	200.8
Iron, Dissolved	114000		30	200	ug/L	200.8
Manganese, Dissolved	13200		4	20	ug/L	200.8

**CLIENT ID: GC-COL-MW-1-INF-7 Lab ID: K2307486-007**

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	826		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	229		0.009	0.020	ug/L	200.8
Iron, Dissolved	145000		30	200	ug/L	200.8
Manganese, Dissolved	12900		4	20	ug/L	200.8

**CLIENT ID: GC-COL-MW-1-PM-8 Lab ID: K2307486-009**

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	1.81		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	220		0.009	0.020	ug/L	200.8
Iron, Dissolved	114000		30	200	ug/L	200.8
Manganese, Dissolved	13000		4	20	ug/L	200.8

**CLIENT ID: GC-COL-MW-1-INF-8 Lab ID: K2307486-011**

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	772		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	229		0.009	0.020	ug/L	200.8
Iron, Dissolved	139000		30	200	ug/L	200.8
Manganese, Dissolved	12700		4	20	ug/L	200.8

**CLIENT ID: GC-COL-MW-1-PM-09 Lab ID: K2307486-013**

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	1.68		0.09	0.50	ug/L	200.8



### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

<b>CLIENT ID: GC-COL-MW-1-PM-09</b>	<b>Lab ID: K2307486-013</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	228		0.009	0.020	ug/L	200.8
Iron, Dissolved	115000		30	200	ug/L	200.8
Manganese, Dissolved	13000		4	20	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-1-INF-9</b>	<b>Lab ID: K2307486-015</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	486		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	229		0.009	0.020	ug/L	200.8
Iron, Dissolved	140000		30	200	ug/L	200.8
Manganese, Dissolved	12800		4	20	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-1-PM-10</b>	<b>Lab ID: K2307486-017</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	1.64		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	230		0.009	0.020	ug/L	200.8
Iron, Dissolved	114000		30	200	ug/L	200.8
Manganese, Dissolved	12800		4	20	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-1-INF-10</b>	<b>Lab ID: K2307486-019</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.29	J	0.09	0.50	ug/L	200.8
Cobalt, Dissolved	259		0.009	0.020	ug/L	200.8
Iron, Dissolved	4.0		0.3	2.0	ug/L	200.8
Manganese, Dissolved	6970		0.4	2.0	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-PM-6</b>	<b>Lab ID: K2307486-002</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	31.9		0.009	0.020	ug/L	200.8
Iron, Dissolved	16.2		0.3	2.0	ug/L	200.8
Manganese, Dissolved	3990		0.4	2.0	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-INF-6</b>	<b>Lab ID: K2307486-004</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	254		0.009	0.020	ug/L	200.8
Iron, Dissolved	271		0.3	2.0	ug/L	200.8
Manganese, Dissolved	7000		0.4	2.0	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-PM-7</b>	<b>Lab ID: K2307486-006</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	33.1		0.009	0.020	ug/L	200.8
Iron, Dissolved	13.4		0.3	2.0	ug/L	200.8
Manganese, Dissolved	3830		0.4	2.0	ug/L	200.8



### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

<b>CLIENT ID: GC-COL-MW-44H-INF-7</b>	<b>Lab ID: K2307486-008</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	258		0.009	0.020	ug/L	200.8
Iron, Dissolved	140		0.3	2.0	ug/L	200.8
Manganese, Dissolved	7020		0.4	2.0	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H--PM-8</b>	<b>Lab ID: K2307486-010</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	35.4		0.009	0.020	ug/L	200.8
Iron, Dissolved	18.9		0.3	2.0	ug/L	200.8
Manganese, Dissolved	4800		0.4	2.0	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-INF-8</b>	<b>Lab ID: K2307486-012</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	257		0.009	0.020	ug/L	200.8
Iron, Dissolved	43.5		0.3	2.0	ug/L	200.8
Manganese, Dissolved	7350		0.4	2.0	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-PM-9</b>	<b>Lab ID: K2307486-014</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	47.6		0.009	0.020	ug/L	200.8
Iron, Dissolved	13.8		0.3	2.0	ug/L	200.8
Manganese, Dissolved	5190		0.4	2.0	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-INF-9</b>	<b>Lab ID: K2307486-016</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	260		0.009	0.020	ug/L	200.8
Iron, Dissolved	16.0		0.3	2.0	ug/L	200.8
Manganese, Dissolved	7220		0.4	2.0	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-PM-10</b>	<b>Lab ID: K2307486-018</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	49.4		0.009	0.020	ug/L	200.8
Iron, Dissolved	11.1		0.3	2.0	ug/L	200.8
Manganese, Dissolved	5190		0.4	2.0	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-INF-10</b>	<b>Lab ID: K2307486-020</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	234		0.009	0.020	ug/L	200.8
Iron, Dissolved	148000		30	200	ug/L	200.8
Manganese, Dissolved	13100		4	20	ug/L	200.8



## Sample Receipt Information

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06

**Service Request:**K2307486

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2307486-001	GC-COL-MW-1-PM-6	6/28/2023	0804
K2307486-002	GC-COL-MW-44H-PM-6	6/28/2023	0805
K2307486-003	GC-COL-MW-1-INF-6	6/28/2023	0904
K2307486-004	GC-COL-MW-44H-INF-6	6/28/2023	0905
K2307486-005	GC-COL-MW-1-PM-7	6/28/2023	1211
K2307486-006	GC-COL-MW-44H-PM-7	6/28/2023	1212
K2307486-007	GC-COL-MW-1-INF-7	6/28/2023	1315
K2307486-008	GC-COL-MW-44H-INF-7	6/28/2023	1316
K2307486-009	GC-COL-MW-1-PM-8	6/28/2023	1600
K2307486-010	GC-COL-MW-44H-PM-7	6/28/2023	1601
K2307486-011	GC-COL-MW-1-INF-8	6/28/2023	1705
K2307486-012	GC-COL-MW-44H-INF-8	6/28/2023	1706
K2307486-013	GC-COL-MW-1-PM-09	6/29/2023	0758
K2307486-014	GC-COL-MW-44H-PM-9	6/29/2023	0759
K2307486-015	GC-COL-MW-1-INF-9	6/29/2023	0858
K2307486-016	GC-COL-MW-44H-INF-9	6/29/2023	0859
K2307486-017	GC-COL-MW-1-PM-10	6/29/2023	1458
K2307486-018	GC-COL-MW-44H-PM-10	6/29/2023	1459
K2307486-019	GC-COL-MW-1-INF-10	6/29/2023	1558
K2307486-020	GC-COL-MW-44H-INF-10	6/29/2023	1559



**Chain of Custody Record & Laboratory Analysis Request**

*K.2307486*  


Laboratory Number: 503-972-5019					Parameters													Masa Kanematsu 6720 S Macadam Ave Suite 300 Portland OR 97219  Comments/Preservation				
Date:	6/30/2023				No. of Containers	Dissolved Co, Fe, Mn	Dissolved As, Co, Fe, Mn															
Project Name:	Greene County - 2023 & 2024																					
Project Number:	221114-05.02 task 06																					
Project Manager:	Masa Kanematsu																					
Phone Number:	503-972-5001 (backup: 503-798-3456)																					
Shipment Method:	ALS Courier																					
Line	Field Sample ID	Collection		Matrix	No. of Containers	Dissolved Co, Fe, Mn	Dissolved As, Co, Fe, Mn												Comments/Preservation			
		Date	Time																			
1	GC-COL-MW-1-PM-6	6/28/2023	8:04	Water	1		X															HNO3-preserved. 0.45 µm-filtered.
2	GC-COL-MW-44H-PM-6	6/28/2023	8:05	Water	1	X																HNO3-preserved. 0.45 µm-filtered.
3	GC-COL-MW-1-INF-6	6/28/2023	9:04	Water	1		X															HNO3-preserved. 0.45 µm-filtered.
4	GC-COL-MW-44H-INF-6	6/28/2023	9:05	Water	1	X																HNO3-preserved. 0.45 µm-filtered.
5	GC-COL-MW-1-PM-7	6/28/2023	12:11	Water	1		X															HNO3-preserved. 0.45 µm-filtered.
6	GC-COL-MW-44H-PM-7	6/28/2023	12:12	Water	1	X																HNO3-preserved. 0.45 µm-filtered.
7	GC-COL-MW-1-INF-7	6/28/2023	13:15	Water	1		X															HNO3-preserved. 0.45 µm-filtered.
8	GC-COL-MW-44H-INF-7	6/28/2023	13:16	Water	1	X																HNO3-preserved. 0.45 µm-filtered.
9	GC-COL-MW-1-PM-8	6/28/2023	16:00	Water	1		X															HNO3-preserved. 0.45 µm-filtered.
10	GC-COL-MW-44H-PM-8	6/28/2023	16:01	Water	1	X																HNO3-preserved. 0.45 µm-filtered.
11	GC-COL-MW-1-INF-8	6/28/2023	17:05	Water	1		X															HNO3-preserved. 0.45 µm-filtered.
12	GC-COL-MW-44H-INF-8	6/28/2023	17:06	Water	1	X																HNO3-preserved. 0.45 µm-filtered.
13	GC-COL-MW-1-PM-9	6/29/2023	7:58	Water	1		X															HNO3-preserved. 0.45 µm-filtered.
14	GC-COL-MW-44H-PM-9	6/29/2023	7:59	Water	1	X																HNO3-preserved. 0.45 µm-filtered.
15	GC-COL-MW-1-INF-9	6/29/2023	8:58	Water	1		X															HNO3-preserved. 0.45 µm-filtered.
16	GC-COL-MW-44H-INF-9	6/29/2023	8:59	Water	1	X																HNO3-preserved. 0.45 µm-filtered.
17	GC-COL-MW-1-PM-10	6/29/2023	14:58	Water	1		X															HNO3-preserved. 0.45 µm-filtered.
18	GC-COL-MW-44H-PM-10	6/29/2023	14:59	Water	1	X																HNO3-preserved. 0.45 µm-filtered.
19	GC-COL-MW-1-INF-10	6/29/2023	15:58	Water	1		X															HNO3-preserved. 0.45 µm-filtered.
20	GC-COL-MW-44H-INF-10	6/29/2023	15:59	Water	1	X																HNO3-preserved. 0.45 µm-filtered.

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchorqea.com) if running > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb. Please analyze on a 10-day TAT.

Relinquished by: Emma Nordlund	Company: Anchor QEA
Signature/Print Name: <i>Emma Nordlund</i>	Date/Time: <i>6/30/23 09:05</i>
Relinquished by: <i>Daniel Swartz</i>	Company: <i>ALS</i>
Signature/Print Name: <i>Daniel S</i>	Date/Time: <i>6/30 155</i>

Received by: <i>Daniel Swartz</i>	<i>ALS</i>
Signature/Print Name: <i>Daniel Swartz</i>	<i>6/30 11:42</i>
Received by: <i>Naomi Reder</i>	<i>6/30/23 1355</i>
Signature/Print Name: <i>Naomi Reder</i>	<i>ALS K230</i>

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

PM Mark

### Cooler Receipt and Preservation Form

Client Anchor Service Request K23 01486  
Received: 6/30/23 Opened: 6/30/23 By: MP Unloaded: 6/30/23 By: MP

- 1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
- 2. Samples were received in: (circle) Cooler Box Envelope Other NA
- 3. Were custody seals on coolers? NA Y N If yes, how many and where? \_\_\_\_\_  
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
<u>5.8</u>	<u>-</u>	<u>1802</u>					

- 4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:  
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
- 5. Were samples received within the method specified temperature ranges? NA Y N  
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N
- If applicable, tissue samples were received: Frozen Partially Thawed Thawed
- 6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves \_\_\_\_\_
- 7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- 8. Were samples received in good condition (unbroken) NA Y N
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
- 10. Did all sample labels and tags agree with custody papers? NA Y N
- 11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
- 13. Were VOA vials received without headspace? Indicate in the table below. NA Y N
- 14. Was C12/Res negative? NA Y N
- 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N
- 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Did not Ph due to limited volume



## Miscellaneous Forms

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso  
State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEH	<a href="http://dec.alaska.gov/eh/lab/cs/csapproval.htm">http://dec.alaska.gov/eh/lab/cs/csapproval.htm</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2795
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L16-58-R4
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Hawaii DOH	<a href="http://health.hawaii.gov/">http://health.hawaii.gov/</a>	-
ISO 17025	<a href="http://www.pjllabs.com/">http://www.pjllabs.com/</a>	L16-57
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	03016
Maine DHS	<a href="http://www.maine.gov/dhhs/">http://www.maine.gov/dhhs/</a>	WA01276
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-457
Nevada DEP	<a href="http://ndep.nv.gov/bsdwlabservice.htm">http://ndep.nv.gov/bsdwlabservice.htm</a>	WA01276
New Jersey DEP	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	WA005
New York - DOH	<a href="https://www.wadsworth.org/regulatory/elap">https://www.wadsworth.org/regulatory/elap</a>	12060
North Carolina DEQ	<a href="https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification">https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA100010
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/EnvironmentalLabCertification/">http://www.scdhec.gov/environment/EnvironmentalLabCertification/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704427
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C544
Wyoming (EPA Region 8)	<a href="https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water">https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water</a>	-
Kelso Laboratory Website	<a href="http://www.alsglobal.com">www.alsglobal.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.ALSGlobal.com](http://www.ALSGlobal.com) or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06

**Service Request:** K2307486

**Sample Name:** GC-COL-MW-1-PM-6  
**Lab Code:** K2307486-001  
**Sample Matrix:** Water

**Date Collected:** 06/28/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-44H-PM-6  
**Lab Code:** K2307486-002  
**Sample Matrix:** Water

**Date Collected:** 06/28/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-1-INF-6  
**Lab Code:** K2307486-003  
**Sample Matrix:** Water

**Date Collected:** 06/28/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-44H-INF-6  
**Lab Code:** K2307486-004  
**Sample Matrix:** Water

**Date Collected:** 06/28/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-1-PM-7  
**Lab Code:** K2307486-005  
**Sample Matrix:** Water

**Date Collected:** 06/28/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06

**Service Request:** K2307486

**Sample Name:** GC-COL-MW-44H-PM-7  
**Lab Code:** K2307486-006  
**Sample Matrix:** Water

**Date Collected:** 06/28/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-1-INF-7  
**Lab Code:** K2307486-007  
**Sample Matrix:** Water

**Date Collected:** 06/28/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-44H-INF-7  
**Lab Code:** K2307486-008  
**Sample Matrix:** Water

**Date Collected:** 06/28/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-1-PM-8  
**Lab Code:** K2307486-009  
**Sample Matrix:** Water

**Date Collected:** 06/28/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-44H--PM-8  
**Lab Code:** K2307486-010  
**Sample Matrix:** Water

**Date Collected:** 06/28/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN



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Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06

**Service Request:** K2307486

**Sample Name:** GC-COL-MW-1-INF-8  
**Lab Code:** K2307486-011  
**Sample Matrix:** Water

**Date Collected:** 06/28/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-44H-INF-8  
**Lab Code:** K2307486-012  
**Sample Matrix:** Water

**Date Collected:** 06/28/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-1-PM-09  
**Lab Code:** K2307486-013  
**Sample Matrix:** Water

**Date Collected:** 06/29/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-44H-PM-9  
**Lab Code:** K2307486-014  
**Sample Matrix:** Water

**Date Collected:** 06/29/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-1-INF-9  
**Lab Code:** K2307486-015  
**Sample Matrix:** Water

**Date Collected:** 06/29/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

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Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06

**Service Request:** K2307486

**Sample Name:** GC-COL-MW-44H-INF-9  
**Lab Code:** K2307486-016  
**Sample Matrix:** Water

**Date Collected:** 06/29/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-1-PM-10  
**Lab Code:** K2307486-017  
**Sample Matrix:** Water

**Date Collected:** 06/29/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-44H-PM-10  
**Lab Code:** K2307486-018  
**Sample Matrix:** Water

**Date Collected:** 06/29/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-1-INF-10  
**Lab Code:** K2307486-019  
**Sample Matrix:** Water

**Date Collected:** 06/29/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-44H-INF-10  
**Lab Code:** K2307486-020  
**Sample Matrix:** Water

**Date Collected:** 06/29/23  
**Date Received:** 06/30/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN



# Sample Results

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



# Metals

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

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dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-6  
**Lab Code:** K2307486-001

**Service Request:** K2307486  
**Date Collected:** 06/28/23 08:04  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	1.97	ug/L	0.50	0.09	1	07/07/23 12:33	07/03/23	
Cobalt	200.8	229	ug/L	0.020	0.009	1	07/07/23 12:33	07/03/23	
Iron	200.8	111000	ug/L	200	30	100	07/07/23 13:47	07/03/23	
Manganese	200.8	12700	ug/L	20	4	100	07/07/23 13:47	07/03/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-PM-6  
**Lab Code:** K2307486-002

**Service Request:** K2307486  
**Date Collected:** 06/28/23 08:05  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	31.9	ug/L	0.020	0.009	1	07/07/23 12:35	07/03/23	
Iron	200.8	16.2	ug/L	2.0	0.3	1	07/07/23 12:35	07/03/23	
Manganese	200.8	3990	ug/L	2.0	0.4	10	07/07/23 13:49	07/03/23	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-INF-6  
**Lab Code:** K2307486-003

**Service Request:** K2307486  
**Date Collected:** 06/28/23 09:04  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	923	ug/L	0.50	0.09	1	07/07/23 12:37	07/03/23	
Cobalt	200.8	232	ug/L	0.020	0.009	1	07/07/23 12:37	07/03/23	
Iron	200.8	144000	ug/L	200	30	100	07/07/23 13:50	07/03/23	
Manganese	200.8	12700	ug/L	20	4	100	07/07/23 13:50	07/03/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-INF-6  
**Lab Code:** K2307486-004

**Service Request:** K2307486  
**Date Collected:** 06/28/23 09:05  
**Date Received:** 06/30/23 13:55

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	254	ug/L	0.020	0.009	1	07/07/23 12:42	07/03/23	
Iron	200.8	271	ug/L	2.0	0.3	1	07/07/23 12:42	07/03/23	
Manganese	200.8	7000	ug/L	2.0	0.4	10	07/07/23 13:56	07/03/23	



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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-7  
**Lab Code:** K2307486-005

**Service Request:** K2307486  
**Date Collected:** 06/28/23 12:11  
**Date Received:** 06/30/23 13:55

**Basis:** NA

**Dissolved Metals**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Arsenic	200.8	<b>1.83</b>	ug/L	0.50	0.09	1	07/07/23 12:48	07/03/23	
Cobalt	200.8	<b>228</b>	ug/L	0.020	0.009	1	07/07/23 12:48	07/03/23	
Iron	200.8	<b>114000</b>	ug/L	200	30	100	07/07/23 14:05	07/03/23	
Manganese	200.8	<b>13200</b>	ug/L	20	4	100	07/07/23 14:05	07/03/23	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-PM-7  
**Lab Code:** K2307486-006

**Service Request:** K2307486  
**Date Collected:** 06/28/23 12:12  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	33.1	ug/L	0.020	0.009	1	07/07/23 12:49	07/03/23	
Iron	200.8	13.4	ug/L	2.0	0.3	1	07/07/23 12:49	07/03/23	
Manganese	200.8	3830	ug/L	2.0	0.4	10	07/07/23 14:07	07/03/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-INF-7  
**Lab Code:** K2307486-007

**Service Request:** K2307486  
**Date Collected:** 06/28/23 13:15  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	826	ug/L	0.50	0.09	1	07/07/23 13:02	07/03/23	
Cobalt	200.8	229	ug/L	0.020	0.009	1	07/07/23 13:02	07/03/23	
Iron	200.8	145000	ug/L	200	30	100	07/07/23 14:09	07/03/23	
Manganese	200.8	12900	ug/L	20	4	100	07/07/23 14:09	07/03/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-INF-7  
**Lab Code:** K2307486-008

**Service Request:** K2307486  
**Date Collected:** 06/28/23 13:16  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	<b>258</b>	ug/L	0.020	0.009	1	07/07/23 13:04	07/03/23	
Iron	200.8	<b>140</b>	ug/L	2.0	0.3	1	07/07/23 13:04	07/03/23	
Manganese	200.8	<b>7020</b>	ug/L	2.0	0.4	10	07/07/23 14:11	07/03/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-8  
**Lab Code:** K2307486-009

**Service Request:** K2307486  
**Date Collected:** 06/28/23 16:00  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	1.81	ug/L	0.50	0.09	1	07/07/23 13:06	07/03/23	
Cobalt	200.8	220	ug/L	0.020	0.009	1	07/07/23 13:06	07/03/23	
Iron	200.8	114000	ug/L	200	30	100	07/07/23 14:13	07/03/23	
Manganese	200.8	13000	ug/L	20	4	100	07/07/23 14:13	07/03/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-PM-8  
**Lab Code:** K2307486-010

**Service Request:** K2307486  
**Date Collected:** 06/28/23 16:01  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	35.4	ug/L	0.020	0.009	1	07/07/23 13:08	07/03/23	
Iron	200.8	18.9	ug/L	2.0	0.3	1	07/07/23 13:08	07/03/23	
Manganese	200.8	4800	ug/L	2.0	0.4	10	07/07/23 14:15	07/03/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-INF-8  
**Lab Code:** K2307486-011

**Service Request:** K2307486  
**Date Collected:** 06/28/23 17:05  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	772	ug/L	0.50	0.09	1	07/07/23 13:09	07/03/23	
Cobalt	200.8	229	ug/L	0.020	0.009	1	07/07/23 13:09	07/03/23	
Iron	200.8	139000	ug/L	200	30	100	07/07/23 14:17	07/03/23	
Manganese	200.8	12700	ug/L	20	4	100	07/07/23 14:17	07/03/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-INF-8  
**Lab Code:** K2307486-012

**Service Request:** K2307486  
**Date Collected:** 06/28/23 17:06  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	257	ug/L	0.020	0.009	1	07/07/23 13:11	07/03/23	
Iron	200.8	43.5	ug/L	2.0	0.3	1	07/07/23 13:11	07/03/23	
Manganese	200.8	7350	ug/L	2.0	0.4	10	07/07/23 14:39	07/03/23	



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dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-09  
**Lab Code:** K2307486-013

**Service Request:** K2307486  
**Date Collected:** 06/29/23 07:58  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	<b>1.68</b>	ug/L	0.50	0.09	1	07/07/23 13:13	07/03/23	
Cobalt	200.8	<b>228</b>	ug/L	0.020	0.009	1	07/07/23 13:13	07/03/23	
Iron	200.8	<b>115000</b>	ug/L	200	30	100	07/07/23 14:24	07/03/23	
Manganese	200.8	<b>13000</b>	ug/L	20	4	100	07/07/23 14:24	07/03/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-PM-9  
**Lab Code:** K2307486-014

**Service Request:** K2307486  
**Date Collected:** 06/29/23 07:59  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	<b>47.6</b>	ug/L	0.020	0.009	1	07/07/23 13:15	07/03/23	
Iron	200.8	<b>13.8</b>	ug/L	2.0	0.3	1	07/07/23 13:15	07/03/23	
Manganese	200.8	<b>5190</b>	ug/L	2.0	0.4	10	07/07/23 14:26	07/03/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-INF-9  
**Lab Code:** K2307486-015

**Service Request:** K2307486  
**Date Collected:** 06/29/23 08:58  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	486	ug/L	0.50	0.09	1	07/07/23 13:17	07/03/23	
Cobalt	200.8	229	ug/L	0.020	0.009	1	07/07/23 13:17	07/03/23	
Iron	200.8	140000	ug/L	200	30	100	07/07/23 14:28	07/03/23	
Manganese	200.8	12800	ug/L	20	4	100	07/07/23 14:28	07/03/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-INF-9  
**Lab Code:** K2307486-016

**Service Request:** K2307486  
**Date Collected:** 06/29/23 08:59  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	<b>260</b>	ug/L	0.020	0.009	1	07/07/23 13:19	07/03/23	
Iron	200.8	<b>16.0</b>	ug/L	2.0	0.3	1	07/07/23 13:19	07/03/23	
Manganese	200.8	<b>7220</b>	ug/L	2.0	0.4	10	07/07/23 14:30	07/03/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-10  
**Lab Code:** K2307486-017

**Service Request:** K2307486  
**Date Collected:** 06/29/23 14:58  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	1.64	ug/L	0.50	0.09	1	07/07/23 13:30	07/03/23	
Cobalt	200.8	230	ug/L	0.020	0.009	1	07/07/23 13:30	07/03/23	
Iron	200.8	114000	ug/L	200	30	100	07/07/23 14:32	07/03/23	
Manganese	200.8	12800	ug/L	20	4	100	07/07/23 14:32	07/03/23	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-PM-10  
**Lab Code:** K2307486-018

**Service Request:** K2307486  
**Date Collected:** 06/29/23 14:59  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Cobalt	200.8	49.4	ug/L	0.020	0.009	1	07/07/23 13:32	07/03/23	
Iron	200.8	11.1	ug/L	2.0	0.3	1	07/07/23 13:32	07/03/23	
Manganese	200.8	5190	ug/L	2.0	0.4	10	07/07/23 14:33	07/03/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-INF-10  
**Lab Code:** K2307486-019

**Service Request:** K2307486  
**Date Collected:** 06/29/23 15:58  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.29 J	ug/L	0.50	0.09	1	07/07/23 13:34	07/03/23	
Cobalt	200.8	259	ug/L	0.020	0.009	1	07/07/23 13:34	07/03/23	
Iron	200.8	4.0	ug/L	2.0	0.3	1	07/07/23 13:34	07/03/23	
Manganese	200.8	6970	ug/L	2.0	0.4	10	07/07/23 14:35	07/03/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-INF-10  
**Lab Code:** K2307486-020

**Service Request:** K2307486  
**Date Collected:** 06/29/23 15:59  
**Date Received:** 06/30/23 13:55  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	<b>234</b>	ug/L	0.020	0.009	1	07/07/23 13:36	07/03/23	
Iron	200.8	<b>148000</b>	ug/L	200	30	100	07/07/23 14:37	07/03/23	
Manganese	200.8	<b>13100</b>	ug/L	20	4	100	07/07/23 14:37	07/03/23	





# QC Summary Forms

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



# Metals

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** KQ2311761-05

**Service Request:** K2307486  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	07/07/23 12:25	07/03/23	
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	07/07/23 12:25	07/03/23	
Iron	200.8	ND U	ug/L	2.0	0.3	1	07/07/23 12:25	07/03/23	
Manganese	200.8	<b>0.19 J</b>	ug/L	0.20	0.04	1	07/07/23 12:25	07/03/23	

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QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water

**Service Request:** K2307486  
**Date Collected:** 06/28/23  
**Date Received:** 06/30/23  
**Date Analyzed:** 07/7/23  
**Date Extracted:** 07/3/23

**Matrix Spike Summary**  
**Dissolved Metals**

**Sample Name:** GC-COL-MW-1-INF-6  
**Lab Code:** K2307486-003  
**Analysis Method:** 200.8  
**Prep Method:** EPA CLP ILM04.0

**Units:** ug/L  
**Basis:** NA

**Matrix Spike**  
KQ2311761-01

<b>Analyte Name</b>	<b>Sample Result</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Arsenic	923	976	50.0	107 #	70-130
Cobalt	232	259	25.0	108 #	70-130
Iron	144000	141000	50	-5080 #	70-130
Manganese	12700	12600	25	-417 #	70-130

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water

**Service Request:** K2307486  
**Date Collected:** 06/28/23  
**Date Received:** 06/30/23  
**Date Analyzed:** 07/7/23  
**Date Extracted:** 07/3/23

**Matrix Spike Summary**  
**Dissolved Metals**

**Sample Name:** GC-COL-MW-44H-INF-6  
**Lab Code:** K2307486-004  
**Analysis Method:** 200.8  
**Prep Method:** EPA CLP ILM04.0

**Units:** ug/L  
**Basis:** NA

**Matrix Spike**  
KQ2311761-03

<b>Analyte Name</b>	<b>Sample Result</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Arsenic	0.49 J	49.7	50.0	98	70-130
Cobalt	254	278	25.0	95 #	70-130
Iron	271	295	50.0	49 #	70-130
Manganese	7000	7070	25.0	309 #	70-130

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Greene County-2023 & 2024/221114-05.02 Task 06
Sample Matrix: Water

Service Request: K2307486
Date Collected: 06/28/23
Date Received: 06/30/23
Date Analyzed: 07/07/23

Replicate Sample Summary
Dissolved Metals

Sample Name: GC-COL-MW-1-INF-6
Lab Code: K2307486-003

Units: ug/L
Basis: NA

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2311761-02 Result, Average, RPD, RPD Limit. Rows include Arsenic, Cobalt, Iron, and Manganese.

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Greene County-2023 & 2024/221114-05.02 Task 06
Sample Matrix: Water

Service Request: K2307486
Date Collected: 06/28/23
Date Received: 06/30/23
Date Analyzed: 07/07/23

Replicate Sample Summary
Dissolved Metals

Sample Name: GC-COL-MW-44H-INF-6
Lab Code: K2307486-004

Units: ug/L
Basis: NA

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2311761-04 Result, Average, RPD, RPD Limit. Rows include Arsenic, Cobalt, Iron, and Manganese.

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County-2023 & 2024/221114-05.02 Task 06  
**Sample Matrix:** Water

**Service Request:** K2307486  
**Date Analyzed:** 07/07/23

**Lab Control Sample Summary**  
**Dissolved Metals**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
KQ2311761-06

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Arsenic	200.8	47.8	50.0	96	85-115
Cobalt	200.8	24.4	25.0	98	85-115
Iron	200.8	47.8	50.0	96	85-115
Manganese	200.8	24.0	25.0	96	85-115





July 10, 2023

Service Request No:K2307526

Masa Kanematsu  
Anchor QEA, LLC  
6720 SW Macadam Avenue  
Suite 125  
Portland, OR 97219

**Laboratory Results for: Greene County- 2023 & 2024**

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory July 03, 2023  
For your reference, these analyses have been assigned our service request number **K2307526**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at [Mark.Harris@alsglobal.com](mailto:Mark.Harris@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Mark Harris  
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626  
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ALS Group USA, Corp.  
dba ALS Environmental



# Narrative Documents

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Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024  
**Sample Matrix:** Water

**Service Request:** K2307526  
**Date Received:** 07/03/2023

**CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

**Sample Receipt:**

Twelve water samples were received for analysis at ALS Environmental on 07/03/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

**Metals:**

No significant anomalies were noted with this analysis.

Approved by \_\_\_\_\_

Date 07/10/2023







## Sample Receipt Information

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024

**Service Request:**K2307526

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2307526-001	GC-COL-MW-1-PM-11	6/30/2023	0809
K2307526-002	GC-COL-MW-44H-PM-11	6/30/2023	0810
K2307526-003	GC-COL-MW-1-INF-11	6/30/2023	0909
K2307526-004	GC-COL-MW-44H-INF-11	6/30/2023	0910
K2307526-005	GC-COL-MW-1-PM-12	6/30/2023	1500
K2307526-006	GC-COL-MW-44H-PM-12	6/30/2023	1501
K2307526-007	GC-COL-MW-1-INF-12	6/30/2023	1605
K2307526-008	GC-COL-MW-44H-INF-12	6/30/2023	1606
K2307526-009	GC-COL-MW-1-PM-13	7/3/2023	0722
K2307526-010	GC-COL-MW-44H-PM-13	7/3/2023	0723
K2307526-011	GC-COL-MW-1-INF-13	7/3/2023	0822
K2307526-012	GC-COL-MW-44H-INF-13	7/3/2023	0823





PM MH

### Cooler Receipt and Preservation Form

Client Anchor QEA Service Request K23 07526  
Received: 7/3/23 Opened: 7/3/23 By: MM Unloaded: 7/3/23 By: MM

- 1. Samples were received via?  USPS  Fed Ex  UPS  DHL  PDX  Courier  Hand Delivered
- 2. Samples were received in: (circle)  Cooler  Box  Envelope  Other  NA
- 3. Were custody seals on coolers?  NA  Y  N If yes, how many and where? \_\_\_\_\_  
If present, were custody seals intact?  Y  N If present, were they signed and dated?  Y  N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with 'X'	PM Notified If out of temp	Tracking Number NA	Filed
	<u>24.0</u>	<u>1000</u>	<u>1</u>				
<u>3.8</u>	<u>-</u>	<u>1200</u>	<u>2</u>				

- 4. Was a Temperature Blank present in cooler?  NA  Y  N If yes, notate the temperature in the appropriate column above:  
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
- 5. Were samples received within the method specified temperature ranges?  NA  Y  N  
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM.  NA  Y  N

If applicable, tissue samples were received:  Frozen  Partially Thawed  Thawed

- 6. Packing material:  Inserts  Baggies  Bubble Wrap  Gel Packs  Wet Ice  Dry Ice  Sleeves Ice in Cooler #2
- 7. Were custody papers properly filled out (ink, signed, etc.)?  NA  Y  N
- 8. Were samples received in good condition (unbroken)  NA  Y  N
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)?  NA  Y  N
- 10. Did all sample labels and tags agree with custody papers?  NA  Y  N
- 11. Were appropriate bottles/containers and volumes received for the tests indicated?  NA  Y  N
- 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below  NA  Y  N
- 13. Were VOA vials received without headspace? Indicate in the table below  NA  Y  N
- 14. Was C12/Res negative?  NA  Y  N
- 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM  NA  Y  N
- 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark?  NA  Y  N Underfilled Overfilled

# RUSH

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Temp not an issue for metal analysis.  
Did not pH due to sample volume  
SOP: SMO-GEN Reviewed: 12/9/2022



## Miscellaneous Forms

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso  
State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEH	<a href="http://dec.alaska.gov/eh/lab/cs/csapproval.htm">http://dec.alaska.gov/eh/lab/cs/csapproval.htm</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2795
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L16-58-R4
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Hawaii DOH	<a href="http://health.hawaii.gov/">http://health.hawaii.gov/</a>	-
ISO 17025	<a href="http://www.pjllabs.com/">http://www.pjllabs.com/</a>	L16-57
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	03016
Maine DHS	<a href="http://www.maine.gov/dhhs/">http://www.maine.gov/dhhs/</a>	WA01276
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-457
Nevada DEP	<a href="http://ndep.nv.gov/bsdw/labservice.htm">http://ndep.nv.gov/bsdw/labservice.htm</a>	WA01276
New Jersey DEP	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	WA005
New York - DOH	<a href="https://www.wadsworth.org/regulatory/elap">https://www.wadsworth.org/regulatory/elap</a>	12060
North Carolina DEQ	<a href="https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification">https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA100010
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/EnvironmentalLabCertification/">http://www.scdhec.gov/environment/EnvironmentalLabCertification/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704427
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C544
Wyoming (EPA Region 8)	<a href="https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water">https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water</a>	-
Kelso Laboratory Website	<a href="http://www.alsglobal.com">www.alsglobal.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.ALSGlobal.com](http://www.ALSGlobal.com) or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024/

**Service Request:** K2307526

**Sample Name:** GC-COL-MW-1-PM-11  
**Lab Code:** K2307526-001  
**Sample Matrix:** Water

**Date Collected:** 06/30/23  
**Date Received:** 07/3/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-44H-PM-11  
**Lab Code:** K2307526-002  
**Sample Matrix:** Water

**Date Collected:** 06/30/23  
**Date Received:** 07/3/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-1-INF-11  
**Lab Code:** K2307526-003  
**Sample Matrix:** Water

**Date Collected:** 06/30/23  
**Date Received:** 07/3/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-44H-INF-11  
**Lab Code:** K2307526-004  
**Sample Matrix:** Water

**Date Collected:** 06/30/23  
**Date Received:** 07/3/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-1-PM-12  
**Lab Code:** K2307526-005  
**Sample Matrix:** Water

**Date Collected:** 06/30/23  
**Date Received:** 07/3/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024/

**Service Request:** K2307526

**Sample Name:** GC-COL-MW-44H-PM-12  
**Lab Code:** K2307526-006  
**Sample Matrix:** Water

**Date Collected:** 06/30/23  
**Date Received:** 07/3/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-1-INF-12  
**Lab Code:** K2307526-007  
**Sample Matrix:** Water

**Date Collected:** 06/30/23  
**Date Received:** 07/3/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-44H-INF-12  
**Lab Code:** K2307526-008  
**Sample Matrix:** Water

**Date Collected:** 06/30/23  
**Date Received:** 07/3/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-1-PM-13  
**Lab Code:** K2307526-009  
**Sample Matrix:** Water

**Date Collected:** 07/3/23  
**Date Received:** 07/3/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-44H-PM-13  
**Lab Code:** K2307526-010  
**Sample Matrix:** Water

**Date Collected:** 07/3/23  
**Date Received:** 07/3/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**ALS Group USA, Corp.**  
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Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024/

**Service Request:** K2307526

**Sample Name:** GC-COL-MW-1-INF-13  
**Lab Code:** K2307526-011  
**Sample Matrix:** Water

**Date Collected:** 07/3/23  
**Date Received:** 07/3/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN

**Sample Name:** GC-COL-MW-44H-INF-13  
**Lab Code:** K2307526-012  
**Sample Matrix:** Water

**Date Collected:** 07/3/23  
**Date Received:** 07/3/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
ACOUCH

**Analyzed By**  
KLINN





# Sample Results

**ALS Environmental—Kelso Laboratory**  
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[www.alsglobal.com](http://www.alsglobal.com)



# Metals

**ALS Environmental—Kelso Laboratory**  
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Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-11  
**Lab Code:** K2307526-001

**Service Request:** K2307526  
**Date Collected:** 06/30/23 08:09  
**Date Received:** 07/03/23 12:30  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Arsenic	200.8	<b>1.47</b>	ug/L	0.50	0.09	1	07/07/23 11:15	07/05/23	
Cobalt	200.8	<b>224</b>	ug/L	0.020	0.009	1	07/07/23 11:15	07/05/23	
Iron	200.8	<b>113000</b>	ug/L	200	30	100	07/07/23 11:59	07/05/23	
Manganese	200.8	<b>12700</b>	ug/L	20	4	100	07/07/23 11:59	07/05/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-PM-11  
**Lab Code:** K2307526-002

**Service Request:** K2307526  
**Date Collected:** 06/30/23 08:10  
**Date Received:** 07/03/23 12:30  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	<b>58.5</b>	ug/L	0.020	0.009	1	07/07/23 11:16	07/05/23	
Iron	200.8	<b>13.5</b>	ug/L	2.0	0.3	1	07/07/23 11:16	07/05/23	
Manganese	200.8	<b>5660</b>	ug/L	2.0	0.4	10	07/07/23 12:01	07/05/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-INF-11  
**Lab Code:** K2307526-003

**Service Request:** K2307526  
**Date Collected:** 06/30/23 09:09  
**Date Received:** 07/03/23 12:30  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Arsenic	200.8	<b>177</b>	ug/L	0.50	0.09	1	07/07/23 11:18	07/05/23	
Cobalt	200.8	<b>234</b>	ug/L	0.020	0.009	1	07/07/23 11:18	07/05/23	
Iron	200.8	<b>138000</b>	ug/L	200	30	100	07/07/23 12:03	07/05/23	
Manganese	200.8	<b>12700</b>	ug/L	20	4	100	07/07/23 12:03	07/05/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-INF-11  
**Lab Code:** K2307526-004

**Service Request:** K2307526  
**Date Collected:** 06/30/23 09:10  
**Date Received:** 07/03/23 12:30  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	<b>254</b>	ug/L	0.020	0.009	1	07/07/23 11:20	07/05/23	
Iron	200.8	<b>21.8</b>	ug/L	2.0	0.3	1	07/07/23 11:20	07/05/23	
Manganese	200.8	<b>7050</b>	ug/L	2.0	0.4	10	07/07/23 12:05	07/05/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-12  
**Lab Code:** K2307526-005

**Service Request:** K2307526  
**Date Collected:** 06/30/23 15:00  
**Date Received:** 07/03/23 12:30  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	1.46	ug/L	0.50	0.09	1	07/07/23 11:22	07/05/23	
Cobalt	200.8	224	ug/L	0.020	0.009	1	07/07/23 11:22	07/05/23	
Iron	200.8	114000	ug/L	200	30	100	07/07/23 12:11	07/05/23	
Manganese	200.8	13200	ug/L	20	4	100	07/07/23 12:11	07/05/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-PM-12  
**Lab Code:** K2307526-006

**Service Request:** K2307526  
**Date Collected:** 06/30/23 15:01  
**Date Received:** 07/03/23 12:30  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	55.4	ug/L	0.020	0.009	1	07/07/23 11:24	07/05/23	
Iron	200.8	14.7	ug/L	2.0	0.3	1	07/07/23 11:24	07/05/23	
Manganese	200.8	5290	ug/L	2.0	0.4	10	07/07/23 12:12	07/05/23	



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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-INF-12  
**Lab Code:** K2307526-007

**Service Request:** K2307526  
**Date Collected:** 06/30/23 16:05  
**Date Received:** 07/03/23 12:30  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	149	ug/L	0.50	0.09	1	07/07/23 11:26	07/05/23	
Cobalt	200.8	229	ug/L	0.020	0.009	1	07/07/23 11:26	07/05/23	
Iron	200.8	144000	ug/L	200	30	100	07/07/23 12:14	07/05/23	
Manganese	200.8	13300	ug/L	20	4	100	07/07/23 12:14	07/05/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-INF-12  
**Lab Code:** K2307526-008

**Service Request:** K2307526  
**Date Collected:** 06/30/23 16:06  
**Date Received:** 07/03/23 12:30  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	<b>258</b>	ug/L	0.020	0.009	1	07/07/23 11:27	07/05/23	
Iron	200.8	<b>20.3</b>	ug/L	2.0	0.3	1	07/07/23 11:27	07/05/23	
Manganese	200.8	<b>6970</b>	ug/L	2.0	0.4	10	07/07/23 12:16	07/05/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-13  
**Lab Code:** K2307526-009

**Service Request:** K2307526  
**Date Collected:** 07/03/23 07:22  
**Date Received:** 07/03/23 12:30  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	1.51	ug/L	0.50	0.09	1	07/07/23 11:35	07/05/23	
Cobalt	200.8	224	ug/L	0.020	0.009	1	07/07/23 11:35	07/05/23	
Iron	200.8	109000	ug/L	200	30	100	07/07/23 12:18	07/05/23	
Manganese	200.8	13000	ug/L	20	4	100	07/07/23 12:18	07/05/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-PM-13  
**Lab Code:** K2307526-010

**Service Request:** K2307526  
**Date Collected:** 07/03/23 07:23  
**Date Received:** 07/03/23 12:30  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	<b>67.4</b>	ug/L	0.020	0.009	1	07/07/23 11:37	07/05/23	
Iron	200.8	<b>18.4</b>	ug/L	2.0	0.3	1	07/07/23 11:37	07/05/23	
Manganese	200.8	<b>5820</b>	ug/L	2.0	0.4	10	07/07/23 12:20	07/05/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-INF-13  
**Lab Code:** K2307526-011

**Service Request:** K2307526  
**Date Collected:** 07/03/23 08:22  
**Date Received:** 07/03/23 12:30  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	8.34	ug/L	0.50	0.09	1	07/07/23 11:39	07/05/23	
Cobalt	200.8	233	ug/L	0.020	0.009	1	07/07/23 11:39	07/05/23	
Iron	200.8	134000	ug/L	200	30	100	07/07/23 12:22	07/05/23	
Manganese	200.8	13200	ug/L	20	4	100	07/07/23 12:22	07/05/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-INF-13  
**Lab Code:** K2307526-012

**Service Request:** K2307526  
**Date Collected:** 07/03/23 08:23  
**Date Received:** 07/03/23 12:30  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	<b>254</b>	ug/L	0.020	0.009	1	07/07/23 11:40	07/05/23	
Iron	200.8	<b>18.2</b>	ug/L	2.0	0.3	1	07/07/23 11:40	07/05/23	
Manganese	200.8	<b>7250</b>	ug/L	2.0	0.4	10	07/07/23 12:24	07/05/23	



# QC Summary Forms

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# Metals

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[www.alsglobal.com](http://www.alsglobal.com)



ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** KQ2311819-01

**Service Request:** K2307526  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	07/07/23 10:49	07/05/23	
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	07/07/23 10:49	07/05/23	
Iron	200.8	ND U	ug/L	2.0	0.3	1	07/07/23 10:49	07/05/23	
Manganese	200.8	ND U	ug/L	0.20	0.04	1	07/07/23 10:49	07/05/23	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024  
**Sample Matrix:** Water

**Service Request:** K2307526  
**Date Analyzed:** 07/07/23

**Lab Control Sample Summary**  
**Dissolved Metals**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
KQ2311819-02

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Arsenic	200.8	49.3	50.0	99	85-115
Cobalt	200.8	25.3	25.0	101	85-115
Iron	200.8	50.1	50.0	100	85-115
Manganese	200.8	25.4	25.0	101	85-115



July 13, 2023

Service Request No:K2307606

Masa Kanematsu  
Anchor QEA, LLC  
6720 SW Macadam Avenue  
Suite 125  
Portland, OR 97219

**Laboratory Results for: Greene County- 2023 & 2024**

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory July 06, 2023  
For your reference, these analyses have been assigned our service request number **K2307606**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at [Mark.Harris@alsglobal.com](mailto:Mark.Harris@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Mark Harris  
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626  
PHONE +1 360 577 7222 | FAX +1 360 636 1068  
ALS Group USA, Corp.  
dba ALS Environmental



# Narrative Documents

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**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024  
**Sample Matrix:** Water

**Service Request:** K2307606  
**Date Received:** 07/06/2023

**CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

**Sample Receipt:**

Nine water samples were received for analysis at ALS Environmental on 07/06/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

**Metals:**

No significant anomalies were noted with this analysis.

*Noel D. O'Connell*

Approved by \_\_\_\_\_

Date 07/13/2023



### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

<b>CLIENT ID: GC-COL-DT-MW-1-PM-1</b>	<b>Lab ID: K2307606-001</b>
---------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.60		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	93.8		0.009	0.020	ug/L	200.8
Iron, Dissolved	44600		0.3	2.0	ug/L	200.8
Manganese, Dissolved	5530		0.04	0.40	ug/L	200.8

<b>CLIENT ID: GC-COL-DT-MW-23-INF-1</b>	<b>Lab ID: K2307606-003</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.10	J	0.09	0.50	ug/L	200.8
Cobalt, Dissolved	0.017	J	0.009	0.020	ug/L	200.8
Iron, Dissolved	2.1		0.3	2.0	ug/L	200.8
Manganese, Dissolved	0.92		0.04	0.40	ug/L	200.8

<b>CLIENT ID: GC-COL-DT-MW-23-INF-2</b>	<b>Lab ID: K2307606-006</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.09	J	0.09	0.50	ug/L	200.8
Cobalt, Dissolved	0.019	J	0.009	0.020	ug/L	200.8
Iron, Dissolved	2.0	J	0.3	2.0	ug/L	200.8
Manganese, Dissolved	0.60		0.04	0.40	ug/L	200.8

<b>CLIENT ID: GC-COL-DT-MW-44H-PM-1</b>	<b>Lab ID: K2307606-002</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	32.7		0.009	0.020	ug/L	200.8
Iron, Dissolved	5.7		0.3	2.0	ug/L	200.8
Manganese, Dissolved	3290		0.04	0.40	ug/L	200.8

<b>CLIENT ID: GC-COL-DT-MW-1-PM-2</b>	<b>Lab ID: K2307606-004</b>
---------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	10.6		0.009	0.020	ug/L	200.8
Iron, Dissolved	10.7		0.3	2.0	ug/L	200.8
Manganese, Dissolved	619		0.04	0.40	ug/L	200.8

<b>CLIENT ID: GC-COL-DT-MW-44H-PM-2</b>	<b>Lab ID: K2307606-005</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	19.3		0.009	0.020	ug/L	200.8
Iron, Dissolved	1.4	J	0.3	2.0	ug/L	200.8
Manganese, Dissolved	1570		0.04	0.40	ug/L	200.8

<b>CLIENT ID: GC-COL-DT-MW-1-PM-3</b>	<b>Lab ID: K2307606-007</b>
---------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.169		0.009	0.020	ug/L	200.8
Iron, Dissolved	28.3		0.3	2.0	ug/L	200.8
Manganese, Dissolved	52.1		0.04	0.40	ug/L	200.8



### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

<b>CLIENT ID: GC-COL-DT-MW-44H-PM-3</b>	<b>Lab ID: K2307606-008</b>					
---	-----------------------------	--	--	--	--	--

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	15.6		0.009	0.020	ug/L	200.8
Iron, Dissolved	1.6	J	0.3	2.0	ug/L	200.8
Manganese, Dissolved	1270		0.04	0.40	ug/L	200.8

<b>CLIENT ID: GC-COL-DT-MW-23-INF-3</b>	<b>Lab ID: K2307606-009</b>					
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.010	J	0.009	0.020	ug/L	200.8
Iron, Dissolved	1.2	J	0.3	2.0	ug/L	200.8
Manganese, Dissolved	0.47		0.04	0.40	ug/L	200.8



## Sample Receipt Information

**ALS Environmental—Kelso Laboratory**  
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[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024/221114-05.02 task 06


**Service Request:**K2307606

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2307606-001	GC-COL-DT-MW-1-PM-1	7/3/2023	1127
K2307606-002	GC-COL-DT-MW-44H-PM-1	7/3/2023	1128
K2307606-003	GC-COL-DT-MW-23-INF-1	7/3/2023	1227
K2307606-004	GC-COL-DT-MW-1-PM-2	7/4/2023	0859
K2307606-005	GC-COL-DT-MW-44H-PM-2	7/4/2023	0900
K2307606-006	GC-COL-DT-MW-23-INF-2	7/4/2023	0959
K2307606-007	GC-COL-DT-MW-1-PM-3	7/5/2023	1014
K2307606-008	GC-COL-DT-MW-44H-PM-3	7/5/2023	1015
K2307606-009	GC-COL-DT-MW-23-INF-3	7/5/2023	1114

V2307606

### Chain of Custody Record & Laboratory Analysis Request

Laboratory Number: 503-972-5019					No. of Containers	Parameters												 Masa Kanematsu 6720 S Macadam Ave Suite 300 Portland OR 97219  Comments/Preservation																									
Date:	7/6/2023					Dissolved Co, Fe, Mn	Dissolved As, Co, Fe, Mn																																				
Project Name:	Greene County - 2023 & 2024																																										
Project Number:	221114-05.02 task 06																																										
Project Manager:	Masa Kanematsu																																										
Phone Number:	503-972-5001 (backup: 503-798-3456)																																										
Shipment Method:	ALS Courier																																										
Line	Field Sample ID	Collection		Matrix																																							
		Date	Time																																								
1	GC-COL-DT-MW-1-PM-1	7/3/2023	11:27	Water																				1		X																	HNO3-preserved. 0.45 µm-filtered.
2	GC-COL-DT-MW-44H-PM-1	7/3/2023	11:28	Water																				1	X																		HNO3-preserved. 0.45 µm-filtered.
3	GC-COL-DT-MW-23-INF-1	7/3/2023	12:27	Water																				1		X																	HNO3-preserved. 0.45 µm-filtered.
4	GC-COL-DT-MW-1-PM-2	7/4/2023	8:59	Water																				1		X																	HNO3-preserved. 0.45 µm-filtered.
5	GC-COL-DT-MW-44H-PM-2	7/4/2023	9:00	Water																				1	X																		HNO3-preserved. 0.45 µm-filtered.
6	GC-COL-DT-MW-23-INF-2	7/4/2023	9:59	Water																				1		X																	HNO3-preserved. 0.45 µm-filtered.
7	GC-COL-DT-MW-1-PM-3	7/5/2023	10:14	Water																				1		X																	HNO3-preserved. 0.45 µm-filtered.
8	GC-COL-DT-MW-44H-PM-3	7/5/2023	10:15	Water																				1	X																		HNO3-preserved. 0.45 µm-filtered.
9	GC-COL-DT-MW-23-INF-3	7/5/2023	11:14	Water																				1		X																	HNO3-preserved. 0.45 µm-filtered.
10																																											
11																																											
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18																																											
19																																											
20																																											

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchorqea.com) if running > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb. Please analyze on a 5-day TAT.

Relinquished by: Emma Nordlund	Company: Anchor QEA
Signature/Print Name: <i>Emma Nordlund</i>	Date/Time: 07/06/23 09:25
Relinquished by: <i>Greg Rich</i>	Company: ALS
Signature/Print Name: <i>Greg Rich</i>	Date/Time: 7-6-23 12:30 pm

Received by: <i>Greg Rich</i>
Signature/Print Name: <i>Greg Rich 7-6-23 10:25</i>
Received by: <i>Arden Nelson</i>
Signature/Print Name: <i>Arden Nelson 7/6/23 12:30</i>

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

PM MH

### Cooler Receipt and Preservation Form

Client Anchor GEA Service Request K23 07606  
Received: 7/6/23 Opened: 7/6/23 By: NP Unloaded: 7/6/23 By: NP

- 1. Samples were received via?  USPS  Fed Ex  UPS  DHL  PDX  Courier  Hand Delivered
- 2. Samples were received in: (circle)  Cooler  Box  Envelope  Other  NA
- 3. Were custody seals on coolers?  NA  Y  N? If yes, how many and where? \_\_\_\_\_  
If present, were custody seals intact?  Y  N If present, were they signed and dated?  Y  N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
4.5	5.8	1200					

4. Was a Temperature Blank present in cooler?  NA  Y  N If yes, note the temperature in the appropriate column above:  
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":

5. Were samples received within the method specified temperature ranges?  NA  Y  N  
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM.  NA  Y  N

If applicable, tissue samples were received: Frozen Partially Thawed Thawed

6. Packing material: Inserts  Baggies  Bubble Wrap  Gel Packs  Wet Ice  Dry Ice  Sleeves

- 7. Were custody papers properly filled out (ink, signed, etc.)?  NA  Y  N
- 8. Were samples received in good condition (unbroken)  NA  Y  N
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)?  NA  Y  N
- 10. Did all sample labels and tags agree with custody papers?  NA  Y  N
- 11. Were appropriate bottles/containers and volumes received for the tests indicated?  NA  Y  N
- 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below  NA  Y  N
- 13. Were VOA vials received without headspace? Indicate in the table below.  NA  Y  N
- 14. Was C12/Res negative?  NA  Y  N
- 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM  NA  Y  N Underfilled Overfilled
- 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark?  NA  Y  N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

# RUSH

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Did not pH due to limited volume



## Miscellaneous Forms

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### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso  
State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEH	<a href="http://dec.alaska.gov/eh/lab/cs/csapproval.htm">http://dec.alaska.gov/eh/lab/cs/csapproval.htm</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2795
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L16-58-R4
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Hawaii DOH	<a href="http://health.hawaii.gov/">http://health.hawaii.gov/</a>	-
ISO 17025	<a href="http://www.pjllabs.com/">http://www.pjllabs.com/</a>	L16-57
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	03016
Maine DHS	<a href="http://www.maine.gov/dhhs/">http://www.maine.gov/dhhs/</a>	WA01276
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-457
Nevada DEP	<a href="http://ndep.nv.gov/bsdwlabservice.htm">http://ndep.nv.gov/bsdwlabservice.htm</a>	WA01276
New Jersey DEP	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	WA005
New York - DOH	<a href="https://www.wadsworth.org/regulatory/elap">https://www.wadsworth.org/regulatory/elap</a>	12060
North Carolina DEQ	<a href="https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification">https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA100010
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/EnvironmentalLabCertification/">http://www.scdhec.gov/environment/EnvironmentalLabCertification/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704427
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C544
Wyoming (EPA Region 8)	<a href="https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water">https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water</a>	-
Kelso Laboratory Website	<a href="http://www.alsglobal.com">www.alsglobal.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.ALSGlobal.com](http://www.ALSGlobal.com) or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024/221114-05.02 task 06

**Service Request:** K2307606

**Sample Name:** GC-COL-DT-MW-1-PM-1  
**Lab Code:** K2307606-001  
**Sample Matrix:** Water

**Date Collected:** 07/3/23  
**Date Received:** 07/6/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-DT-MW-44H-PM-1  
**Lab Code:** K2307606-002  
**Sample Matrix:** Water

**Date Collected:** 07/3/23  
**Date Received:** 07/6/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-DT-MW-23-INF-1  
**Lab Code:** K2307606-003  
**Sample Matrix:** Water

**Date Collected:** 07/3/23  
**Date Received:** 07/6/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-DT-MW-1-PM-2  
**Lab Code:** K2307606-004  
**Sample Matrix:** Water

**Date Collected:** 07/4/23  
**Date Received:** 07/6/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-DT-MW-44H-PM-2  
**Lab Code:** K2307606-005  
**Sample Matrix:** Water

**Date Collected:** 07/4/23  
**Date Received:** 07/6/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
EMCALLISTER



ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024/221114-05.02 task 06

**Service Request:** K2307606

**Sample Name:** GC-COL-DT-MW-23-INF-2  
**Lab Code:** K2307606-006  
**Sample Matrix:** Water

**Date Collected:** 07/4/23  
**Date Received:** 07/6/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-DT-MW-1-PM-3  
**Lab Code:** K2307606-007  
**Sample Matrix:** Water

**Date Collected:** 07/5/23  
**Date Received:** 07/6/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-DT-MW-44H-PM-3  
**Lab Code:** K2307606-008  
**Sample Matrix:** Water

**Date Collected:** 07/5/23  
**Date Received:** 07/6/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
EMCALLISTER

**Sample Name:** GC-COL-DT-MW-23-INF-3  
**Lab Code:** K2307606-009  
**Sample Matrix:** Water

**Date Collected:** 07/5/23  
**Date Received:** 07/6/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
EMCALLISTER



# Sample Results

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



# Metals

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-DT-MW-1-PM-1  
**Lab Code:** K2307606-001

**Service Request:** K2307606  
**Date Collected:** 07/03/23 11:27  
**Date Received:** 07/06/23 12:30  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	0.60	ug/L	0.50	0.09	1	07/12/23 12:11	07/11/23	
Cobalt	200.8	93.8	ug/L	0.020	0.009	1	07/12/23 12:11	07/11/23	
Iron	200.8	44600	ug/L	2.0	0.3	1	07/12/23 12:11	07/11/23	
Manganese	200.8	5530	ug/L	0.40	0.04	1	07/12/23 12:11	07/11/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-DT-MW-44H-PM-1  
**Lab Code:** K2307606-002

**Service Request:** K2307606  
**Date Collected:** 07/03/23 11:28  
**Date Received:** 07/06/23 12:30  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	<b>32.7</b>	ug/L	0.020	0.009	1	07/12/23 12:13	07/11/23	
Iron	200.8	<b>5.7</b>	ug/L	2.0	0.3	1	07/12/23 12:13	07/11/23	
Manganese	200.8	<b>3290</b>	ug/L	0.40	0.04	1	07/12/23 12:13	07/11/23	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-DT-MW-23-INF-1  
**Lab Code:** K2307606-003

**Service Request:** K2307606  
**Date Collected:** 07/03/23 12:27  
**Date Received:** 07/06/23 12:30  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	<b>0.10 J</b>	ug/L	0.50	0.09	1	07/12/23 12:15	07/11/23	
Cobalt	200.8	<b>0.017 J</b>	ug/L	0.020	0.009	1	07/12/23 12:15	07/11/23	
Iron	200.8	<b>2.1</b>	ug/L	2.0	0.3	1	07/12/23 12:15	07/11/23	
Manganese	200.8	<b>0.92</b>	ug/L	0.40	0.04	1	07/12/23 12:15	07/11/23	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-DT-MW-1-PM-2  
**Lab Code:** K2307606-004

**Service Request:** K2307606  
**Date Collected:** 07/04/23 08:59  
**Date Received:** 07/06/23 12:30  
**Basis:** NA

**Dissolved Metals**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	07/12/23 12:18	07/11/23	
Cobalt	200.8	<b>10.6</b>	ug/L	0.020	0.009	1	07/12/23 12:18	07/11/23	
Iron	200.8	<b>10.7</b>	ug/L	2.0	0.3	1	07/12/23 12:18	07/11/23	
Manganese	200.8	<b>619</b>	ug/L	0.40	0.04	1	07/12/23 12:18	07/11/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-DT-MW-44H-PM-2  
**Lab Code:** K2307606-005

**Service Request:** K2307606  
**Date Collected:** 07/04/23 09:00  
**Date Received:** 07/06/23 12:30  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	<b>19.3</b>	ug/L	0.020	0.009	1	07/12/23 12:20	07/11/23	
Iron	200.8	<b>1.4 J</b>	ug/L	2.0	0.3	1	07/12/23 12:20	07/11/23	
Manganese	200.8	<b>1570</b>	ug/L	0.40	0.04	1	07/12/23 12:20	07/11/23	



ALS Group USA, Corp.  
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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-DT-MW-23-INF-2  
**Lab Code:** K2307606-006

**Service Request:** K2307606  
**Date Collected:** 07/04/23 09:59  
**Date Received:** 07/06/23 12:30  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	<b>0.09 J</b>	ug/L	0.50	0.09	1	07/12/23 12:22	07/11/23	
Cobalt	200.8	<b>0.019 J</b>	ug/L	0.020	0.009	1	07/12/23 12:22	07/11/23	
Iron	200.8	<b>2.0 J</b>	ug/L	2.0	0.3	1	07/12/23 12:22	07/11/23	
Manganese	200.8	<b>0.60</b>	ug/L	0.40	0.04	1	07/12/23 12:22	07/11/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-DT-MW-1-PM-3  
**Lab Code:** K2307606-007

**Service Request:** K2307606  
**Date Collected:** 07/05/23 10:14  
**Date Received:** 07/06/23 12:30  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	07/12/23 12:24	07/11/23	
Cobalt	200.8	<b>0.169</b>	ug/L	0.020	0.009	1	07/12/23 12:24	07/11/23	
Iron	200.8	<b>28.3</b>	ug/L	2.0	0.3	1	07/12/23 12:24	07/11/23	
Manganese	200.8	<b>52.1</b>	ug/L	0.40	0.04	1	07/12/23 12:24	07/11/23	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-DT-MW-44H-PM-3  
**Lab Code:** K2307606-008

**Service Request:** K2307606  
**Date Collected:** 07/05/23 10:15  
**Date Received:** 07/06/23 12:30  
**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Cobalt	200.8	<b>15.6</b>	ug/L	0.020	0.009	1	07/12/23 12:27	07/11/23	
Iron	200.8	<b>1.6 J</b>	ug/L	2.0	0.3	1	07/12/23 12:27	07/11/23	
Manganese	200.8	<b>1270</b>	ug/L	0.40	0.04	1	07/12/23 12:27	07/11/23	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-DT-MW-23-INF-3  
**Lab Code:** K2307606-009

**Service Request:** K2307606  
**Date Collected:** 07/05/23 11:14  
**Date Received:** 07/06/23 12:30  
**Basis:** NA

**Dissolved Metals**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	07/12/23 12:29	07/11/23	
Cobalt	200.8	<b>0.010 J</b>	ug/L	0.020	0.009	1	07/12/23 12:29	07/11/23	
Iron	200.8	<b>1.2 J</b>	ug/L	2.0	0.3	1	07/12/23 12:29	07/11/23	
Manganese	200.8	<b>0.47</b>	ug/L	0.40	0.04	1	07/12/23 12:29	07/11/23	



# QC Summary Forms

**ALS Environmental—Kelso Laboratory**  
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# Metals

**ALS Environmental—Kelso Laboratory**  
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Phone (360) 577-7222 Fax (360) 425-9096  
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ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** KQ2311999-01

**Service Request:** K2307606  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

Dissolved Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	07/12/23 11:10	07/11/23	
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	07/12/23 11:10	07/11/23	
Iron	200.8	ND U	ug/L	2.0	0.3	1	07/12/23 11:10	07/11/23	
Manganese	200.8	ND U	ug/L	0.20	0.04	1	07/12/23 11:10	07/11/23	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County- 2023 & 2024/221114-05.02 task 06  
**Sample Matrix:** Water

**Service Request:** K2307606  
**Date Analyzed:** 07/12/23

**Lab Control Sample Summary**  
**Dissolved Metals**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
KQ2311999-02

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Arsenic	200.8	48.4	50.0	97	85-115
Cobalt	200.8	24.6	25.0	98	85-115
Iron	200.8	48.9	50.0	98	85-115
Manganese	200.8	24.2	25.0	97	85-115





August 11, 2023

Service Request No:K2308335

Masa Kanematsu  
Anchor QEA, LLC  
6720 SW Macadam Avenue  
Suite 125  
Portland, OR 97219

**Laboratory Results for: Greene County Treatability**

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory July 25, 2023  
For your reference, these analyses have been assigned our service request number **K2308335**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at [Mark.Harris@alsglobal.com](mailto:Mark.Harris@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Mark Harris  
Project Manager

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PHONE +1 360 577 7222 | FAX +1 360 636 1068  
ALS Group USA, Corp.  
dba ALS Environmental



# Narrative Documents

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
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[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Anchor QEA, LLC Greene  
**Project:** County Treatability Water  
**Sample Matrix:**

**Service Request:** K2308335  
**Date Received:** 07/25/2023

**CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

**Sample Receipt:**

Nine water samples were received for analysis at ALS Environmental on 07/25/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

**Metals:**

No significant anomalies were noted with this analysis.

*Noel D. O'Connell*

Approved by \_\_\_\_\_

Date 08/11/2023



### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

<b>CLIENT ID: GC-COL-MW-1-PM-SSE-F2</b>	<b>Lab ID: K2308335-001</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	56		2	10	ug/L	200.8
Cobalt, Dissolved	0.75		0.18	0.40	ug/L	200.8
Iron, Dissolved	4130		6	40	ug/L	200.8
Manganese, Dissolved	38		0.8	10	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-1-PM-DUP-SSE-F2</b>	<b>Lab ID: K2308335-002</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	52		2	10	ug/L	200.8
Cobalt, Dissolved	0.55		0.18	0.40	ug/L	200.8
Iron, Dissolved	3870		6	40	ug/L	200.8
Manganese, Dissolved	43		0.8	10	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-PM-SSE-F2</b>	<b>Lab ID: K2308335-003</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	107		2	10	ug/L	200.8
Cobalt, Dissolved	53.8		0.18	0.40	ug/L	200.8
Iron, Dissolved	3150		6	40	ug/L	200.8
Manganese, Dissolved	445		0.8	10	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-1-11.0-25.0-SSE-F2</b>	<b>Lab ID: K2308335-004</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	18		2	10	ug/L	200.8
Cobalt, Dissolved	1.32		0.18	0.40	ug/L	200.8
Iron, Dissolved	3970		6	40	ug/L	200.8
Manganese, Dissolved	68		0.8	10	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-2-34.0-40.0-SSE-F2</b>	<b>Lab ID: K2308335-005</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	40		2	10	ug/L	200.8
Cobalt, Dissolved	0.97		0.18	0.40	ug/L	200.8
Iron, Dissolved	3400		6	40	ug/L	200.8
Manganese, Dissolved	37		0.8	10	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-3-10.0-15.0-SSE-F2</b>	<b>Lab ID: K2308335-006</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	29		2	10	ug/L	200.8
Cobalt, Dissolved	1.30		0.18	0.40	ug/L	200.8
Iron, Dissolved	3640		6	40	ug/L	200.8
Manganese, Dissolved	101		0.8	10	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-4-24.0-35.0-SSE-F2</b>	<b>Lab ID: K2308335-007</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	17		2	10	ug/L	200.8



### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

<b>CLIENT ID: GC-AP-PT-4-24.0-35.0-SSE-F2</b>	<b>Lab ID: K2308335-007</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.46		0.18	0.40	ug/L	200.8
Iron, Dissolved	3380		6	40	ug/L	200.8
Manganese, Dissolved	193		0.8	10	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-5-12.0-22.0-SSE-F2</b>	<b>Lab ID: K2308335-008</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	142		2	10	ug/L	200.8
Cobalt, Dissolved	49.6		0.18	0.40	ug/L	200.8
Iron, Dissolved	3860		6	40	ug/L	200.8
Manganese, Dissolved	62		0.8	10	ug/L	200.8

<b>CLIENT ID: GC-MB-2023-SSE-F2</b>	<b>Lab ID: K2308335-009</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	6	J	2	10	ug/L	200.8
Iron, Dissolved	39	J	6	40	ug/L	200.8
Manganese, Dissolved	7	J	0.8	10	ug/L	200.8



## Sample Receipt Information

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06

**Service Request:**K2308335

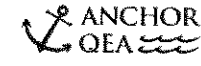
**SAMPLE CROSS-REFERENCE**

K2308335-001	GC-COL-MW-1-PM-SSE-F2	7/19/2023	1710
K2308335-002	GC-COL-MW-1-PM-DUP-SSE-F2	7/19/2023	1715
K2308335-003	GC-COL-MW-44H-PM-SSE-F2	7/19/2023	1720
K2308335-004	GC-AP-PT-1-11.0-25.0-SSE-F2	7/19/2023	1725
K2308335-005	GC-AP-PT-2-34.0-40.0-SSE-F2	7/19/2023	1730
K2308335-006	GC-AP-PT-3-10.0-15.0-SSE-F2	7/19/2023	1735
K2308335-007	GC-AP-PT-4-24.0-35.0-SSE-F2	7/19/2023	1740
K2308335-008	GC-AP-PT-5-12.0-22.0-SSE-F2	7/19/2023	1745
K2308335-009	GC-MB-2023-SSE-F2	7/19/2023	1750

42308335

**Chain of Custody Record & Laboratory Analysis Request**

Laboratory Number: 503-972-5001					<table border="1"> <thead> <tr> <th colspan="10">Parameters</th> </tr> <tr> <th colspan="2">No. of Containers</th> <th colspan="8">Parameters</th> <th rowspan="2">Comments/Preservation</th> </tr> <tr> <th>Dissolved Metals (As, Co, Fe, Mn) EPA 200.8</th> <th>Total metals (As, Co, Fe, Mn) EPA 3050B</th> <th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th> </tr> </thead> <tbody> <tr><td>1</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>HNO3-Preserved; contains 0.67 M Na phosphate; 0.45um-filtered, std TAT</td></tr> <tr><td>2</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>HNO3-Preserved; contains 0.67 M Na phosphate; 0.45um-filtered, std TAT</td></tr> <tr><td>3</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>HNO3-Preserved; contains 0.67 M Na phosphate; 0.45um-filtered, std TAT</td></tr> <tr><td>4</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>HNO3-Preserved; contains 0.67 M Na phosphate; 0.45um-filtered, std TAT</td></tr> <tr><td>5</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>HNO3-Preserved; contains 0.67 M Na phosphate; 0.45um-filtered, std TAT</td></tr> <tr><td>6</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>HNO3-Preserved; contains 0.67 M Na phosphate; 0.45um-filtered, std TAT</td></tr> <tr><td>7</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>HNO3-Preserved; contains 0.67 M Na phosphate; 0.45um-filtered, std TAT</td></tr> <tr><td>8</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>HNO3-Preserved; contains 0.67 M Na phosphate; 0.45um-filtered, std TAT</td></tr> <tr><td>9</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>HNO3-Preserved; contains 0.67 M Na phosphate; 0.45um-filtered, std TAT</td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>12</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>13</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>15</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>										Parameters										No. of Containers		Parameters								Comments/Preservation	Dissolved Metals (As, Co, Fe, Mn) EPA 200.8	Total metals (As, Co, Fe, Mn) EPA 3050B									1	X									HNO3-Preserved; contains 0.67 M Na phosphate; 0.45um-filtered, std TAT	2	X									HNO3-Preserved; contains 0.67 M Na phosphate; 0.45um-filtered, std TAT	3	X									HNO3-Preserved; contains 0.67 M Na phosphate; 0.45um-filtered, std TAT	4	X									HNO3-Preserved; contains 0.67 M Na phosphate; 0.45um-filtered, std TAT	5	X									HNO3-Preserved; contains 0.67 M Na phosphate; 0.45um-filtered, std TAT	6	X									HNO3-Preserved; contains 0.67 M Na phosphate; 0.45um-filtered, std TAT	7	X									HNO3-Preserved; contains 0.67 M Na phosphate; 0.45um-filtered, std TAT	8	X									HNO3-Preserved; contains 0.67 M Na phosphate; 0.45um-filtered, std TAT	9	X									HNO3-Preserved; contains 0.67 M Na phosphate; 0.45um-filtered, std TAT	10											11											12											13											14											15										
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Masa Kanematsu  
6720 SW Macadam Ave  
Suite 300  
Portland OR 97219

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchoragea.com) if the samples need to be diluted > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb.

Relinquished by:	Company:
Sumant Avasarala	Anchor QEA
Signature/Print Name:	Date/Time:
<i>[Signature]</i>	07/25/23

Received by:
<i>[Signature]</i>
Signature/Print Name:
Greg Rich

Relinquished by:	Company:
<i>[Signature]</i>	ALS
Signature/Print Name:	Date/Time:
Greg Rich	7-25-23 1445

Received by:
7-25-23 1210 PM MM/445
Signature/Print Name:
M. Mulligan ALS

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.



PM MH

### Cooler Receipt and Preservation Form

Client Anchor Service Request K23 08335  
Received: 7/25/23 Opened: 7/25/23 By: VMM Unloaded: 7/25/23 By: VMM

- 1. Samples were received via?  USPS  Fed Ex  UPS  DHL  PDX  Courier  Hand Delivered
- 2. Samples were received in: (circle)  Cooler  Box  Envelope  Other  NA
- 3. Were custody seals on coolers?  NA  Y  N If yes, how many and where? \_\_\_\_\_  
If present, were custody seals intact?  Y  N If present, were they signed and dated?  Y  N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
1.6	0.6	IR06	Cooler 1				
5.3	4.5	↓	Cooler 2				

- 4. Was a Temperature Blank present in cooler?  NA  Y  N If yes, notate the temperature in the appropriate column above:  
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
- 5. Were samples received within the method specified temperature ranges?  NA  Y  N  
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM.  NA  Y  N

If applicable, tissue samples were received: **Frozen Partially Thawed Thawed**

- 6. Packing material: **Inserts**  Baggies  Bubble Wrap  Gel Packs  Wet Ice  Dry Ice  Sleeves
- 7. Were custody papers properly filled out (ink, signed, etc.)?  NA  Y  N
- 8. Were samples received in good condition (unbroken)  NA  Y  N
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)?  NA  Y  N
- 10. Did all sample labels and tags agree with custody papers?  NA  Y  N
- 11. Were appropriate bottles/containers and volumes received for the tests indicated?  NA  Y  N
- 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below  NA  Y  N
- 13. Were VOA vials received without headspace? Indicate in the table below.  NA  Y  N
- 14. Was C12/Res negative?  NA  Y  N
- 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM  NA  Y  N
- 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark?  NA  Y  N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Didn't pH due to low volume



## Miscellaneous Forms

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso  
State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEH	<a href="http://dec.alaska.gov/eh/lab/cs/csapproval.htm">http://dec.alaska.gov/eh/lab/cs/csapproval.htm</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2795
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L16-58-R4
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Hawaii DOH	<a href="http://health.hawaii.gov/">http://health.hawaii.gov/</a>	-
ISO 17025	<a href="http://www.pjllabs.com/">http://www.pjllabs.com/</a>	L16-57
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	03016
Maine DHS	<a href="http://www.maine.gov/dhhs/">http://www.maine.gov/dhhs/</a>	WA01276
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-457
Nevada DEP	<a href="http://ndep.nv.gov/bsdw/labservice.htm">http://ndep.nv.gov/bsdw/labservice.htm</a>	WA01276
New Jersey DEP	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	WA005
New York - DOH	<a href="https://www.wadsworth.org/regulatory/elap">https://www.wadsworth.org/regulatory/elap</a>	12060
North Carolina DEQ	<a href="https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification">https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA100010
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/EnvironmentalLabCertification/">http://www.scdhec.gov/environment/EnvironmentalLabCertification/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704427
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C544
Wyoming (EPA Region 8)	<a href="https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water">https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water</a>	-
Kelso Laboratory Website	<a href="http://www.alsglobal.com">www.alsglobal.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.ALSGlobal.com](http://www.ALSGlobal.com) or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023  
& 2024 Task 06

**Service Request:** K2308335

**Sample Name:** GC-COL-MW-1-PM-SSE-F2  
**Lab Code:** K2308335-001  
**Sample Matrix:** Water

**Date Collected:** 07/19/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-COL-MW-1-PM-DUP-SSE-F2  
**Lab Code:** K2308335-002  
**Sample Matrix:** Water

**Date Collected:** 07/19/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-COL-MW-44H-PM-SSE-F2  
**Lab Code:** K2308335-003  
**Sample Matrix:** Water

**Date Collected:** 07/19/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-1-11.0-25.0-SSE-F2  
**Lab Code:** K2308335-004  
**Sample Matrix:** Water

**Date Collected:** 07/19/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-2-34.0-40.0-SSE-F2  
**Lab Code:** K2308335-005  
**Sample Matrix:** Water

**Date Collected:** 07/19/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023  
& 2024 Task 06

**Service Request:** K2308335

**Sample Name:** GC-AP-PT-3-10.0-15.0-SSE-F2  
**Lab Code:** K2308335-006  
**Sample Matrix:** Water

**Date Collected:** 07/19/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-4-24.0-35.0-SSE-F2  
**Lab Code:** K2308335-007  
**Sample Matrix:** Water

**Date Collected:** 07/19/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-5-12.0-22.0-SSE-F2  
**Lab Code:** K2308335-008  
**Sample Matrix:** Water

**Date Collected:** 07/19/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-MB-2023-SSE-F2  
**Lab Code:** K2308335-009  
**Sample Matrix:** Water

**Date Collected:** 07/19/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN



# Sample Results

**ALS Environmental—Kelso Laboratory**  
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[www.alsglobal.com](http://www.alsglobal.com)





# Metals

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ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023  
& 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-SSE-F2  
**Lab Code:** K2308335-001

**Service Request:** K2308335  
**Date Collected:** 07/19/23 17:10  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	56	ug/L	10	2	4	08/10/23 11:21	07/31/23	
Cobalt	200.8	0.75	ug/L	0.40	0.18	4	08/10/23 11:21	07/31/23	
Iron	200.8	4130	ug/L	40	6	4	08/10/23 11:21	07/31/23	
Manganese	200.8	38	ug/L	10	0.8	4	08/10/23 11:21	07/31/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023  
& 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-DUP-SSE-F2  
**Lab Code:** K2308335-002

**Service Request:** K2308335  
**Date Collected:** 07/19/23 17:15  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	52	ug/L	10	2	4	08/10/23 11:28	07/31/23	
Cobalt	200.8	0.55	ug/L	0.40	0.18	4	08/10/23 11:28	07/31/23	
Iron	200.8	3870	ug/L	40	6	4	08/10/23 11:28	07/31/23	
Manganese	200.8	43	ug/L	10	0.8	4	08/10/23 11:28	07/31/23	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023  
& 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-PM-SSE-F2  
**Lab Code:** K2308335-003

**Service Request:** K2308335  
**Date Collected:** 07/19/23 17:20  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	107	ug/L	10	2	4	08/10/23 11:30	07/31/23	
Cobalt	200.8	53.8	ug/L	0.40	0.18	4	08/10/23 11:30	07/31/23	
Iron	200.8	3150	ug/L	40	6	4	08/10/23 11:30	07/31/23	
Manganese	200.8	445	ug/L	10	0.8	4	08/10/23 11:30	07/31/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023  
& 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-1-11.0-25.0-SSE-F2  
**Lab Code:** K2308335-004

**Service Request:** K2308335  
**Date Collected:** 07/19/23 17:25  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	18	ug/L	10	2	4	08/10/23 11:32	07/31/23	
Cobalt	200.8	1.32	ug/L	0.40	0.18	4	08/10/23 11:32	07/31/23	
Iron	200.8	3970	ug/L	40	6	4	08/10/23 11:32	07/31/23	
Manganese	200.8	68	ug/L	10	0.8	4	08/10/23 11:32	07/31/23	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023  
& 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-2-34.0-40.0-SSE-F2  
**Lab Code:** K2308335-005

**Service Request:** K2308335  
**Date Collected:** 07/19/23 17:30  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	40	ug/L	10	2	4	08/10/23 11:34	07/31/23	
Cobalt	200.8	0.97	ug/L	0.40	0.18	4	08/10/23 11:34	07/31/23	
Iron	200.8	3400	ug/L	40	6	4	08/10/23 11:34	07/31/23	
Manganese	200.8	37	ug/L	10	0.8	4	08/10/23 11:34	07/31/23	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023  
& 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-3-10.0-15.0-SSE-F2  
**Lab Code:** K2308335-006

**Service Request:** K2308335  
**Date Collected:** 07/19/23 17:35  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	29	ug/L	10	2	4	08/10/23 11:37	07/31/23	
Cobalt	200.8	1.30	ug/L	0.40	0.18	4	08/10/23 11:37	07/31/23	
Iron	200.8	3640	ug/L	40	6	4	08/10/23 11:37	07/31/23	
Manganese	200.8	101	ug/L	10	0.8	4	08/10/23 11:37	07/31/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023  
& 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-4-24.0-35.0-SSE-F2  
**Lab Code:** K2308335-007

**Service Request:** K2308335  
**Date Collected:** 07/19/23 17:40  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	17	ug/L	10	2	4	08/10/23 11:39	07/31/23	
Cobalt	200.8	0.46	ug/L	0.40	0.18	4	08/10/23 11:39	07/31/23	
Iron	200.8	3380	ug/L	40	6	4	08/10/23 11:39	07/31/23	
Manganese	200.8	193	ug/L	10	0.8	4	08/10/23 11:39	07/31/23	



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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023  
& 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-5-12.0-22.0-SSE-F2  
**Lab Code:** K2308335-008

**Service Request:** K2308335  
**Date Collected:** 07/19/23 17:45  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	142	ug/L	10	2	4	08/10/23 11:48	07/31/23	
Cobalt	200.8	49.6	ug/L	0.40	0.18	4	08/10/23 11:48	07/31/23	
Iron	200.8	3860	ug/L	40	6	4	08/10/23 11:48	07/31/23	
Manganese	200.8	62	ug/L	10	0.8	4	08/10/23 11:48	07/31/23	

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dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023  
& 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-MB-2023-SSE-F2  
**Lab Code:** K2308335-009

**Service Request:** K2308335  
**Date Collected:** 07/19/23 17:50  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	6 J	ug/L	10	2	4	08/10/23 11:50	07/31/23	
Cobalt	200.8	ND U	ug/L	0.40	0.18	4	08/10/23 11:50	07/31/23	
Iron	200.8	39 J	ug/L	40	6	4	08/10/23 11:50	07/31/23	
Manganese	200.8	7 J	ug/L	10	0.8	4	08/10/23 11:50	07/31/23	



## QC Summary Forms

**ALS Environmental—Kelso Laboratory**  
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# Metals

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**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023  
 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** KQ2313090-01

**Service Request:** K2308335  
**Date Collected:** NA  
**Date Received:** NA

**Basis:** NA

**Dissolved Metals**

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date		Q
	Method	Result						Extracted		
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	08/10/23 11:13	07/31/23		
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	08/10/23 11:13	07/31/23		
Iron	200.8	ND U	ug/L	2.0	0.3	1	08/10/23 11:13	07/31/23		
Manganese	200.8	<b>0.41 J</b>	ug/L	0.50	0.04	1	08/10/23 11:13	07/31/23		

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QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water

**Service Request:** K2308335  
**Date Collected:** 07/19/23  
**Date Received:** 07/25/23  
**Date Analyzed:** 08/10/23  
**Date Extracted:** 07/31/23

**Matrix Spike Summary**  
**Dissolved Metals**

**Sample Name:** GC-COL-MW-1-PM-SSE-F2  
**Lab Code:** K2308335-001  
**Analysis Method:** 200.8  
**Prep Method:** EPA CLP ILM04.0

**Units:** ug/L  
**Basis:** NA

**Matrix Spike**  
KQ2313090-04

<b>Analyte Name</b>	<b>Sample Result</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Arsenic	56	276	250	88	70-130
Cobalt	0.75	107	125	85	70-130
Iron	4130	3830	250	-120 #	70-130
Manganese	38	137	125	80	70-130

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06
Sample Matrix: Water

Service Request: K2308335
Date Collected: 07/19/23
Date Received: 07/25/23
Date Analyzed: 08/10/23

Replicate Sample Summary
Dissolved Metals

Sample Name: GC-COL-MW-1-PM-SSE-F2
Lab Code: K2308335-001

Units: ug/L
Basis: NA

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2313090-03 Result, Average, RPD, RPD Limit. Rows include Arsenic, Cobalt, Iron, and Manganese.

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 &  
2024 Task 06  
**Sample Matrix:** Water

**Service Request:** K2308335

**Date Analyzed:** 08/10/23

**Lab Control Sample Summary**  
**Dissolved Metals**

**Units:**ug/L

**Basis:**NA

**Lab Control Sample**

KQ2313090-02

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Arsenic	200.8	49.1	50.0	98	85-115
Cobalt	200.8	25.2	25.0	101	85-115
Iron	200.8	49.1	50.0	98	85-115
Manganese	200.8	26.0	25.0	104	85-115





August 04, 2023

Service Request No:K2308338

Masa Kanematsu  
Anchor QEA, LLC  
6720 SW Macadam Avenue  
Suite 125  
Portland, OR 97219

**Laboratory Results for: Greene County Treatability**

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory July 25, 2023  
For your reference, these analyses have been assigned our service request number **K2308338**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at [Mark.Harris@alsglobal.com](mailto:Mark.Harris@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Mark Harris  
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626  
PHONE +1 360 577 7222 | FAX +1 360 636 1068  
ALS Group USA, Corp.  
dba ALS Environmental



# Narrative Documents

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
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**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability  
**Sample Matrix:** Water

**Service Request:** K2308338  
**Date Received:** 07/25/2023

**CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

**Sample Receipt:**

Nine water samples were received for analysis at ALS Environmental on 07/25/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

**Metals:**

No significant anomalies were noted with this analysis.

Approved by \_\_\_\_\_

Date 08/04/2023



### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

<b>CLIENT ID: GC-COL-MW-1-PM-SSE-F4</b>	<b>Lab ID: K2308338-001</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	61		2	10	ug/L	200.8
Cobalt, Dissolved	0.63		0.18	0.40	ug/L	200.8
Iron, Dissolved	10400		6	40	ug/L	200.8
Manganese, Dissolved	72	J	0.8	80	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-1-PM-DUP-SSE-F4</b>	<b>Lab ID: K2308338-002</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	48		2	10	ug/L	200.8
Cobalt, Dissolved	0.58		0.18	0.40	ug/L	200.8
Iron, Dissolved	8330		6	40	ug/L	200.8
Manganese, Dissolved	38	J	0.8	80	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-PM-SSE-F4</b>	<b>Lab ID: K2308338-003</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	16		2	10	ug/L	200.8
Cobalt, Dissolved	26.5		0.18	0.40	ug/L	200.8
Iron, Dissolved	8720		6	40	ug/L	200.8
Manganese, Dissolved	74	J	0.8	80	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-2-34.0-40.0-SSE-F4</b>	<b>Lab ID: K2308338-005</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	7	J	2	10	ug/L	200.8
Cobalt, Dissolved	3.17		0.18	0.40	ug/L	200.8
Iron, Dissolved	15200		6	40	ug/L	200.8
Manganese, Dissolved	153		0.8	80	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-3-10.0-15.0-SSE-F4</b>	<b>Lab ID: K2308338-006</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	3	J	2	10	ug/L	200.8
Cobalt, Dissolved	0.85		0.18	0.40	ug/L	200.8
Iron, Dissolved	6500		6	40	ug/L	200.8
Manganese, Dissolved	38	J	0.8	80	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-4-24.0-35.0-SSE-F4</b>	<b>Lab ID: K2308338-007</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	3	J	2	10	ug/L	200.8
Cobalt, Dissolved	2.26		0.18	0.40	ug/L	200.8
Iron, Dissolved	6760		6	40	ug/L	200.8
Manganese, Dissolved	99		0.8	80	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-5-12.0-22.0-SSE-F4</b>	<b>Lab ID: K2308338-008</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	21		2	10	ug/L	200.8



### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

<b>CLIENT ID: GC-AP-PT-5-12.0-22.0-SSE-F4</b>	<b>Lab ID: K2308338-008</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	33.8		0.18	0.40	ug/L	200.8
Iron, Dissolved	10700		6	40	ug/L	200.8
Manganese, Dissolved	62	J	0.8	80	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-1-11.0-25.0-SSE-F4</b>	<b>Lab ID: K2308338-004</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.79		0.18	0.40	ug/L	200.8
Iron, Dissolved	4960		6	40	ug/L	200.8
Manganese, Dissolved	35	J	0.8	80	ug/L	200.8

<b>CLIENT ID: GC-MB-2023-SSE-F4</b>	<b>Lab ID: K2308338-009</b>
-------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Iron, Dissolved	13	J	6	40	ug/L	200.8
Manganese, Dissolved	18	J	0.8	80	ug/L	200.8



## Sample Receipt Information

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06


**Service Request:**K2308338

**SAMPLE CROSS-REFERENCE**

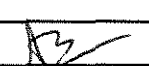
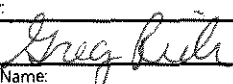
K2308338-001	GC-COL-MW-1-PM-SSE-F4	7/21/2023	1710
K2308338-002	GC-COL-MW-1-PM-DUP-SSE-F4	7/21/2023	1715
K2308338-003	GC-COL-MW-44H-PM-SSE-F4	7/21/2023	1720
K2308338-004	GC-AP-PT-1-11.0-25.0-SSE-F4	7/21/2023	1725
K2308338-005	GC-AP-PT-2-34.0-40.0-SSE-F4	7/21/2023	1730
K2308338-006	GC-AP-PT-3-10.0-15.0-SSE-F4	7/21/2023	1735
K2308338-007	GC-AP-PT-4-24.0-35.0-SSE-F4	7/21/2023	1740
K2308338-008	GC-AP-PT-5-12.0-22.0-SSE-F4	7/21/2023	1745
K2308338-009	GC-MB-2023-SSE-F4	7/21/2023	1750

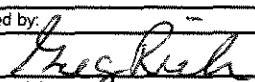
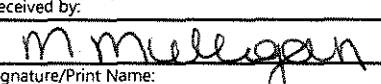
V2308338

**Chain of Custody Record & Laboratory Analysis Request**

Laboratory Number: 503-972-5001					<b>Parameters</b>										 Masa Kanematsu 6720 SW Macadam Ave Suite 300 Portland OR 97219								
Date:	7/25/2023																						
Project Name:	Greene County Treatability																						
Project Number:	221114-05.02 - Greene County - 2023 & 2024 Task 06																						
Project Manager:	Masa Kanematsu																						
Phone Number:	503-972-5001 (backup number: 503-798-3456)																						
Shipment Method:	ALS Carrier																						
Line	Field Sample ID	Collection		Matrix	No. of Containers	Dissolved Metals (As, Co, Fe, Mn) EPA 200.8	Total Metals (As, Co, Fe, Mn) EPA 305.0B											Comments/Preservation					
		Date	Time																				
1	GC-COL-MW-1-PM-SSE-F4	7/21/2023	17:10	Water	1	X																HNO3-Preserved; contains 10.7 M nitric acid; 0.45um-filtered, std TAT	
2	GC-COL-MW-1-PM-DUP-SSE-F4	7/21/2023	17:15	Water	1	X																HNO3-Preserved; contains 10.7 M nitric acid; 0.45um-filtered, std TAT	
3	GC-COL-MW-44H-PM-SSE-F4	7/21/2023	17:20	Water	1	X																HNO3-Preserved; contains 10.7 M nitric acid; 0.45um-filtered, std TAT	
4	GC-AP-PT-1-11.0-25.0-SSE-F4	7/21/2023	17:25	Water	1	X																HNO3-Preserved; contains 10.7 M nitric acid; 0.45um-filtered, std TAT	
5	GC-AP-PT-2-34.0-40.0-SSE-F4	7/21/2023	17:30	Water	1	X																HNO3-Preserved; contains 10.7 M nitric acid; 0.45um-filtered, std TAT	
6	GC-AP-PT-3-10.0-15.0-SSE-F4	7/21/2023	17:35	Water	1	X																HNO3-Preserved; contains 10.7 M nitric acid; 0.45um-filtered, std TAT	
7	GC-AP-PT-4-24.0-35.0-SSE-F4	7/21/2023	17:40	Water	1	X																HNO3-Preserved; contains 10.7 M nitric acid; 0.45um-filtered, std TAT	
8	GC-AP-PT-5-12.0-22.0-SSE-F4	7/21/2023	17:45	Water	1	X																HNO3-Preserved; contains 10.7 M nitric acid; 0.45um-filtered, std TAT	
9	GC-MB-2023-SSE-F4	7/21/2023	17:50	Water	1	X																HNO3-Preserved; contains 10.7 M nitric acid; 0.45um-filtered, std TAT	
10																							
11																							
12																							
13																							
14																							
15																							

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchorqea.com) if the samples need to be diluted > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb.

Relinquished by:	Company:
Sumant Avasarala	Anchor QEA
Signature/Print Name:	Date/Time:
	07/25/23
Relinquished by:	Company:
	ALS
Signature/Print Name:	Date/Time:
Greg Rich	7-25-23 1445

Received by:

Signature/Print Name:
Greg Rich 7-25-23 1210 PM
Received by:

Signature/Print Name:
M. Mulligan 7/25/23 1445

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.



PM MH

### Cooler Receipt and Preservation Form

Client Anchor Service Request K23 08338  
 Received: 7/25/23 Opened: 7/25/23 By: VMM Unloaded: 7/25/23 By: VMM

1. Samples were received via? **USPS** *Fed Ex* *UPS* *DHL* *PDX* **Courier** *Hand Delivered*
2. Samples were received in: (circle) **Cooler** *Box* *Envelope* *Other* *NA*
3. Were custody seals on coolers? *NA* **Y** *N* If yes, how many and where? \_\_\_\_\_  
 If present, were custody seals intact? **Y** *N* If present, were they signed and dated? **Y** *N*

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with "X"	PM Notified if out of temp	Tracking Number NA	Filed
1.6	0.6	TR06	Cooler 1				
5.3	4.5	↓	Cooler 2				

4. Was a Temperature Blank present in cooler? *NA* **Y** *N* If yes, notate the temperature in the appropriate column above:  
 If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? *NA* **Y** *N*  
 If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. **NA** *Y* *N*

If applicable, tissue samples were received: *Frozen* **Partially Thawed** *Thawed*

6. Packing material: *Inserts* **Baggies** *Bubble Wrap* *Gel Packs* **Wet Ice** *Dry Ice* *Sleeves* \_\_\_\_\_
7. Were custody papers properly filled out (ink, signed, etc.)? *NA* **Y** *N*
8. Were samples received in good condition (unbroken) *NA* **Y** *N*
9. Were all sample labels complete (ie, analysis, preservation, etc.)? *NA* **Y** *N*
10. Did all sample labels and tags agree with custody papers? *NA* **Y** *N*
11. Were appropriate bottles/containers and volumes received for the tests indicated? *NA* **Y** *N*
12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below **NA** *Y* *N*
13. Were VOA vials received without headspace? Indicate in the table below **NA** *Y* *N*
14. Was C12/Res negative? **NA** *Y* *N*
15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM **NA** *Y* *N*
16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? **NA** *Y* *N* Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Didn't ph due to low volume



## Miscellaneous Forms

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso  
State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEH	<a href="http://dec.alaska.gov/eh/lab/cs/csapproval.htm">http://dec.alaska.gov/eh/lab/cs/csapproval.htm</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2795
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L16-58-R4
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Hawaii DOH	<a href="http://health.hawaii.gov/">http://health.hawaii.gov/</a>	-
ISO 17025	<a href="http://www.pjllabs.com/">http://www.pjllabs.com/</a>	L16-57
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	03016
Maine DHS	<a href="http://www.maine.gov/dhhs/">http://www.maine.gov/dhhs/</a>	WA01276
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-457
Nevada DEP	<a href="http://ndep.nv.gov/bsdw/labservice.htm">http://ndep.nv.gov/bsdw/labservice.htm</a>	WA01276
New Jersey DEP	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	WA005
New York - DOH	<a href="https://www.wadsworth.org/regulatory/elap">https://www.wadsworth.org/regulatory/elap</a>	12060
North Carolina DEQ	<a href="https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification">https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA100010
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/EnvironmentalLabCertification/">http://www.scdhec.gov/environment/EnvironmentalLabCertification/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704427
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C544
Wyoming (EPA Region 8)	<a href="https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water">https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water</a>	-
Kelso Laboratory Website	<a href="http://www.alsglobal.com">www.alsglobal.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.ALSGlobal.com](http://www.ALSGlobal.com) or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06

**Service Request:** K2308338

**Sample Name:** GC-COL-MW-1-PM-SSE-F4  
**Lab Code:** K2308338-001  
**Sample Matrix:** Water

**Date Collected:** 07/21/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-COL-MW-1-PM-DUP-SSE-F4  
**Lab Code:** K2308338-002  
**Sample Matrix:** Water

**Date Collected:** 07/21/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-COL-MW-44H-PM-SSE-F4  
**Lab Code:** K2308338-003  
**Sample Matrix:** Water

**Date Collected:** 07/21/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-1-11.0-25.0-SSE-F4  
**Lab Code:** K2308338-004  
**Sample Matrix:** Water

**Date Collected:** 07/21/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-2-34.0-40.0-SSE-F4  
**Lab Code:** K2308338-005  
**Sample Matrix:** Water

**Date Collected:** 07/21/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06

**Service Request:** K2308338

**Sample Name:** GC-AP-PT-3-10.0-15.0-SSE-F4  
**Lab Code:** K2308338-006  
**Sample Matrix:** Water

**Date Collected:** 07/21/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-4-24.0-35.0-SSE-F4  
**Lab Code:** K2308338-007  
**Sample Matrix:** Water

**Date Collected:** 07/21/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-5-12.0-22.0-SSE-F4  
**Lab Code:** K2308338-008  
**Sample Matrix:** Water

**Date Collected:** 07/21/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-MB-2023-SSE-F4  
**Lab Code:** K2308338-009  
**Sample Matrix:** Water

**Date Collected:** 07/21/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN



# Sample Results

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)





# Metals

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-SSE-F4  
**Lab Code:** K2308338-001

**Service Request:** K2308338  
**Date Collected:** 07/21/23 17:10  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	61	ug/L	10	2	1	08/03/23 13:20	07/31/23	
Cobalt	200.8	0.63	ug/L	0.40	0.18	1	08/03/23 13:20	07/31/23	
Iron	200.8	10400	ug/L	40	6	1	08/03/23 13:20	07/31/23	
Manganese	200.8	72 J	ug/L	80	0.8	1	08/03/23 13:20	07/31/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-DUP-SSE-F4  
**Lab Code:** K2308338-002

**Service Request:** K2308338  
**Date Collected:** 07/21/23 17:15  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	48	ug/L	10	2	1	08/03/23 13:22	07/31/23	
Cobalt	200.8	0.58	ug/L	0.40	0.18	1	08/03/23 13:22	07/31/23	
Iron	200.8	8330	ug/L	40	6	1	08/03/23 13:22	07/31/23	
Manganese	200.8	38 J	ug/L	80	0.8	1	08/03/23 13:22	07/31/23	

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dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-PM-SSE-F4  
**Lab Code:** K2308338-003

**Service Request:** K2308338  
**Date Collected:** 07/21/23 17:20  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	16	ug/L	10	2	1	08/03/23 13:23	07/31/23	
Cobalt	200.8	26.5	ug/L	0.40	0.18	1	08/03/23 13:23	07/31/23	
Iron	200.8	8720	ug/L	40	6	1	08/03/23 13:23	07/31/23	
Manganese	200.8	74 J	ug/L	80	0.8	1	08/03/23 13:23	07/31/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-1-11.0-25.0-SSE-F4  
**Lab Code:** K2308338-004

**Service Request:** K2308338  
**Date Collected:** 07/21/23 17:25  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	ND U	ug/L	10	2	1	08/03/23 13:25	07/31/23	
Cobalt	200.8	<b>0.79</b>	ug/L	0.40	0.18	1	08/03/23 13:25	07/31/23	
Iron	200.8	<b>4960</b>	ug/L	40	6	1	08/03/23 13:25	07/31/23	
Manganese	200.8	<b>35 J</b>	ug/L	80	0.8	1	08/03/23 13:25	07/31/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-2-34.0-40.0-SSE-F4  
**Lab Code:** K2308338-005

**Service Request:** K2308338  
**Date Collected:** 07/21/23 17:30  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	7 J	ug/L	10	2	1	08/03/23 13:27	07/31/23	
Cobalt	200.8	3.17	ug/L	0.40	0.18	1	08/03/23 13:27	07/31/23	
Iron	200.8	15200	ug/L	40	6	1	08/03/23 13:27	07/31/23	
Manganese	200.8	153	ug/L	80	0.8	1	08/03/23 13:27	07/31/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-3-10.0-15.0-SSE-F4  
**Lab Code:** K2308338-006

**Service Request:** K2308338  
**Date Collected:** 07/21/23 17:35  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	3 J	ug/L	10	2	1	08/03/23 13:28	07/31/23	
Cobalt	200.8	0.85	ug/L	0.40	0.18	1	08/03/23 13:28	07/31/23	
Iron	200.8	6500	ug/L	40	6	1	08/03/23 13:28	07/31/23	
Manganese	200.8	38 J	ug/L	80	0.8	1	08/03/23 13:28	07/31/23	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-4-24.0-35.0-SSE-F4  
**Lab Code:** K2308338-007

**Service Request:** K2308338  
**Date Collected:** 07/21/23 17:40  
**Date Received:** 07/25/23 14:45

**Basis:** NA

**Dissolved Metals**

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	<b>3 J</b>	ug/L	10	2	1	08/03/23 13:30	07/31/23	
Cobalt	200.8	<b>2.26</b>	ug/L	0.40	0.18	1	08/03/23 13:30	07/31/23	
Iron	200.8	<b>6760</b>	ug/L	40	6	1	08/03/23 13:30	07/31/23	
Manganese	200.8	<b>99</b>	ug/L	80	0.8	1	08/03/23 13:30	07/31/23	



ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-5-12.0-22.0-SSE-F4  
**Lab Code:** K2308338-008

**Service Request:** K2308338  
**Date Collected:** 07/21/23 17:45  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	21	ug/L	10	2	1	08/03/23 13:31	07/31/23	
Cobalt	200.8	33.8	ug/L	0.40	0.18	1	08/03/23 13:31	07/31/23	
Iron	200.8	10700	ug/L	40	6	1	08/03/23 13:31	07/31/23	
Manganese	200.8	62 J	ug/L	80	0.8	1	08/03/23 13:31	07/31/23	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-MB-2023-SSE-F4  
**Lab Code:** K2308338-009

**Service Request:** K2308338  
**Date Collected:** 07/21/23 17:50  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	ND U	ug/L	10	2	1	08/03/23 13:33	07/31/23	
Cobalt	200.8	ND U	ug/L	0.40	0.18	1	08/03/23 13:33	07/31/23	
Iron	200.8	13 J	ug/L	40	6	1	08/03/23 13:33	07/31/23	
Manganese	200.8	18 J	ug/L	80	0.8	1	08/03/23 13:33	07/31/23	



# QC Summary Forms

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



# Metals

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** KQ2313098-01

**Service Request:** K2308338  
**Date Collected:** NA  
**Date Received:** NA

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	08/03/23 12:55	07/31/23	
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	08/03/23 12:55	07/31/23	
Iron	200.8	<b>0.4 J</b>	ug/L	2.0	0.3	1	08/03/23 12:55	07/31/23	
Manganese	200.8	<b>0.06 J</b>	ug/L	4.0	0.04	1	08/03/23 12:55	07/31/23	

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QA/QC Report

**Client:** Anchor QEA, LLC **Service Request:** K2308338  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06 **Date Collected:** 07/21/23  
**Sample Matrix:** Water **Date Received:** 07/25/23  
**Date Analyzed:** 08/3/23  
**Date Extracted:** 07/31/23

**Matrix Spike Summary**  
**Dissolved Metals**

**Sample Name:** GC-COL-MW-1-PM-SSE-F4 **Units:** ug/L  
**Lab Code:** K2308338-001 **Basis:** NA  
**Analysis Method:** 200.8  
**Prep Method:** EPA CLP ILM04.0

**Matrix Spike**  
KQ2313098-06

<b>Analyte Name</b>	<b>Sample Result</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Arsenic	61	1010	1000	95	70-130
Cobalt	0.63	517	500	103	70-130
Iron	10400	11000	1000	62 #	70-130
Manganese	72 J	562	500	98	70-130

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water

**Service Request:** K2308338

**Date Collected:** 07/21/23

**Date Received:** 07/25/23

**Date Analyzed:** 08/03/23

Replicate Sample Summary

Dissolved Metals

**Sample Name:** GC-COL-MW-1-PM-SSE-F4

**Units:** ug/L

**Lab Code:** K2308338-001

**Basis:** NA

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
					KQ2313098-05 Result			
Arsenic	200.8	10	2	61	55	58	10	20
Cobalt	200.8	0.40	0.18	0.63	0.51	0.57	21 #	20
Iron	200.8	40	6	10400	9740	10100	7	20
Manganese	200.8	80	0.8	72 J	84	78	15	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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dba ALS Environmental

QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024  
Task 06  
**Sample Matrix:** Water

**Service Request:** K2308338

**Date Analyzed:** 08/03/23

**Lab Control Sample Summary**  
**Dissolved Metals**

**Units:**ug/L

**Basis:**NA

**Lab Control Sample**

KQ2313098-02

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Arsenic	200.8	47.7	50.0	95	85-115
Cobalt	200.8	24.8	25.0	99	85-115
Iron	200.8	49.0	50.0	98	85-115
Manganese	200.8	23.3	25.0	93	85-115





August 01, 2023

Service Request No:K2308339

Masa Kanematsu  
Anchor QEA, LLC  
6720 SW Macadam Avenue  
Suite 125  
Portland, OR 97219

**Laboratory Results for: Greene County Treatability**

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory July 25, 2023  
For your reference, these analyses have been assigned our service request number **K2308339**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at [Mark.Harris@alsglobal.com](mailto:Mark.Harris@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Mark Harris  
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626  
PHONE +1 360 577 7222 | FAX +1 360 636 1068  
ALS Group USA, Corp.  
dba ALS Environmental



# Narrative Documents

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability  
**Sample Matrix:** Soil

**Service Request:** K2308339  
**Date Received:** 07/25/2023

**CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

**Sample Receipt:**

Eight soil samples were received for analysis at ALS Environmental on 07/25/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

**Metals:**

No significant anomalies were noted with this analysis.

*Noel D. O'Connell*

Approved by \_\_\_\_\_

Date 08/01/2023



### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

<b>CLIENT ID: GC-COL-MW-1-PM-SSE-F5</b>	<b>Lab ID: K2308339-001</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	0.60		0.07	0.58	mg/Kg	200.8
Cobalt	0.253		0.007	0.023	mg/Kg	200.8
Iron	1370		0.5	1.2	mg/Kg	200.8
Manganese	5.76		0.02	0.58	mg/Kg	200.8

<b>CLIENT ID: GC-COL-MW-1-PM-DUP-SSE-F5</b>	<b>Lab ID: K2308339-002</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	0.66		0.06	0.53	mg/Kg	200.8
Cobalt	0.384		0.006	0.021	mg/Kg	200.8
Iron	1740		0.4	1.1	mg/Kg	200.8
Manganese	6.76		0.02	0.53	mg/Kg	200.8

<b>CLIENT ID: GC-COL-MW-44H-PM-SSE-F5</b>	<b>Lab ID: K2308339-003</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	2.79		0.07	0.57	mg/Kg	200.8
Cobalt	1.84		0.007	0.023	mg/Kg	200.8
Iron	4450		0.5	1.1	mg/Kg	200.8
Manganese	15.4		0.02	0.57	mg/Kg	200.8

<b>CLIENT ID: GC-AP-PT-1-11.0-25.0-SSE-F5</b>	<b>Lab ID: K2308339-004</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	0.67		0.06	0.50	mg/Kg	200.8
Cobalt	0.434		0.006	0.020	mg/Kg	200.8
Iron	2310		0.4	1.0	mg/Kg	200.8
Manganese	6.15		0.02	0.50	mg/Kg	200.8

<b>CLIENT ID: GC-AP-PT-2-34.0-40.0-SSE-F5</b>	<b>Lab ID: K2308339-005</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	0.67		0.06	0.52	mg/Kg	200.8
Cobalt	0.391		0.006	0.021	mg/Kg	200.8
Iron	2450		0.4	1.0	mg/Kg	200.8
Manganese	7.25		0.02	0.52	mg/Kg	200.8

<b>CLIENT ID: GC-AP-PT-3-10.0-15.0-SSE-F5</b>	<b>Lab ID: K2308339-006</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	0.48	J	0.06	0.52	mg/Kg	200.8
Cobalt	0.346		0.006	0.021	mg/Kg	200.8
Iron	1440		0.4	1.0	mg/Kg	200.8
Manganese	5.82		0.02	0.10	mg/Kg	200.8

<b>CLIENT ID: GC-AP-PT-4-24.0-35.0-SSE-F5</b>	<b>Lab ID: K2308339-007</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	0.51	J	0.06	0.51	mg/Kg	200.8



### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

<b>CLIENT ID: GC-AP-PT-4-24.0-35.0-SSE-F5</b>	<b>Lab ID: K2308339-007</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt	0.529		0.006	0.020	mg/Kg	200.8
Iron	1800		0.4	1.0	mg/Kg	200.8
Manganese	9.23		0.02	0.10	mg/Kg	200.8

<b>CLIENT ID: GC-AP-PT-5-12.0-22.0-SSE-F5</b>	<b>Lab ID: K2308339-008</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	2.55		0.06	0.51	mg/Kg	200.8
Cobalt	1.81		0.006	0.020	mg/Kg	200.8
Iron	4150		0.4	1.0	mg/Kg	200.8
Manganese	11.6		0.02	0.10	mg/Kg	200.8



## Sample Receipt Information

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Green County-2023&2024  
Task 06


**Service Request:**K2308339

**SAMPLE CROSS-REFERENCE**

K2308339-001	GC-COL-MW-1-PM-SSE-F5	7/24/2023	1710
K2308339-002	GC-COL-MW-1-PM-DUP-SSE-F5	7/24/2023	1715
K2308339-003	GC-COL-MW-44H-PM-SSE-F5	7/24/2023	1720
K2308339-004	GC-AP-PT-1-11.0-25.0-SSE-F5	7/24/2023	1725
K2308339-005	GC-AP-PT-2-34.0-40.0-SSE-F5	7/24/2023	1730
K2308339-006	GC-AP-PT-3-10.0-15.0-SSE-F5	7/24/2023	1735
K2308339-007	GC-AP-PT-4-24.0-35.0-SSE-F5	7/24/2023	1740
K2308339-008	GC-AP-PT-5-12.0-22.0-SSE-F5	7/24/2023	1745

K230Y339

### Chain of Custody Record & Laboratory Analysis Request

Laboratory Number: 503-972-5001					Parameters										 Masa Kanematsu 6720 SW Macadam Ave Suite 300 Portland OR 97219								
Date:		7/25/2023			No. of Containers Dissolved Metals (As, Co, Fe, Mn) EPA 200.8 Total metals (As, Co, Fe, Mn) EPA 3050B																		
Project Name:		Greene County Treatability																					
Project Number:		221114-05.02 - Greene County - 2023 & 2024 Task 06																					
Project Manager:		Masa Kanematsu																					
Phone Number:		503-972-5001 (backup number: 503-798-3456)																					
Shipment Method:		ALS Carrier																					
Line	Field Sample ID	Collection		Matrix																Comments/Preservation			
		Date	Time																				
1	GC-COL-MW-1-PM-SSE-F5	7/24/2023	17:10	Solid	1																Air dried solid		
2	GC-COL-MW-1-PM-DUP-SSE-F5	7/24/2023	17:15	Solid	1																	Air dried solid	
3	GC-COL-MW-44H-PM-SSE-F5	7/24/2023	17:20	Solid	1																	Air dried solid	
4	GC-AP-PT-1-11.0-25.0-SSE-F5	7/24/2023	17:25	Solid	1																	Air dried solid	
5	GC-AP-PT-2-34.0-40.0-SSE-F5	7/24/2023	17:30	Solid	1																	Air dried solid	
6	GC-AP-PT-3-10.0-15.0-SSE-F5	7/24/2023	17:35	Solid	1																	Air dried solid	
7	GC-AP-PT-4-24.0-35.0-SSE-F5	7/24/2023	17:40	Solid	1																	Air dried solid	
8	GC-AP-PT-5-12.0-22.0-SSE-F5	7/24/2023	17:45	Solid	1																	Air dried solid	
9																							
10																							
11																							
12																							
13																							
14																							
15																							

Notes: Residual solids

Relinquished by:	Company:
Sumant Avasarala	Anchor QEA
Signature/Print Name:	Date/Time:
<i>AS</i>	07/25/23
Relinquished by:	Company:
<i>Greg Rich</i>	ALS
Signature/Print Name:	Date/Time:
Greg Rich	7-25-23 1445

Received by:
<i>Greg Rich</i>
Signature/Print Name:
Greg Rich 7-25-23 12:10 PM
Received by:
<i>M. Murgan ALS</i>
Signature/Print Name:
7/25/23 1445

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.



PM mt

### Cooler Receipt and Preservation Form

Client Anchor Service Request K23 08339  
Received: 7/25/23 Opened: 7/25/23 By: VMM Unloaded: 7/25/23 By: VMM

- 1. Samples were received via?  USPS  Fed Ex  UPS  DHL  PDX  Courier  Hand Delivered
- 2. Samples were received in: (circle)  Cooler  Box  Envelope  Other  NA
- 3. Were custody seals on coolers?  NA  Y  N If yes, how many and where? \_\_\_\_\_  
If present, were custody seals intact?  Y  N If present, were they signed and dated?  Y  N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
1.6	0.6	TR06	Cooler 1				
5.3	4.5	↓	Cooler 2				

4. Was a Temperature Blank present in cooler?  NA  Y  N If yes, notate the temperature in the appropriate column above:  
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":

5. Were samples received within the method specified temperature ranges?  NA  Y  N  
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM.  NA  Y  N

If applicable, tissue samples were received: *Frozen Partially Thawed Thawed*

6. Packing material: *Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves*

- 7. Were custody papers properly filled out (ink, signed, etc.)?  NA  Y  N
- 8. Were samples received in good condition (unbroken)  NA  Y  N
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)?  NA  Y  N
- 10. Did all sample labels and tags agree with custody papers?  NA  Y  N
- 11. Were appropriate bottles/containers and volumes received for the tests indicated?  NA  Y  N
- 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below  NA  Y  N
- 13. Were VOA vials received without headspace? Indicate in the table below.  NA  Y  N
- 14. Was C12/Res negative?  NA  Y  N
- 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM  NA  Y  N
- 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark?  NA  Y  N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Head- space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Dilut ph due to low volume



# Miscellaneous Forms

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso  
State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEH	<a href="http://dec.alaska.gov/eh/lab/cs/csapproval.htm">http://dec.alaska.gov/eh/lab/cs/csapproval.htm</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2795
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L16-58-R4
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Hawaii DOH	<a href="http://health.hawaii.gov/">http://health.hawaii.gov/</a>	-
ISO 17025	<a href="http://www.pjllabs.com/">http://www.pjllabs.com/</a>	L16-57
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	03016
Maine DHS	<a href="http://www.maine.gov/dhhs/">http://www.maine.gov/dhhs/</a>	WA01276
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-457
Nevada DEP	<a href="http://ndep.nv.gov/bsdw/labservice.htm">http://ndep.nv.gov/bsdw/labservice.htm</a>	WA01276
New Jersey DEP	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	WA005
New York - DOH	<a href="https://www.wadsworth.org/regulatory/elap">https://www.wadsworth.org/regulatory/elap</a>	12060
North Carolina DEQ	<a href="https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification">https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA100010
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/EnvironmentalLabCertification/">http://www.scdhec.gov/environment/EnvironmentalLabCertification/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704427
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C544
Wyoming (EPA Region 8)	<a href="https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water">https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water</a>	-
Kelso Laboratory Website	<a href="http://www.alsglobal.com">www.alsglobal.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.ALSGlobal.com](http://www.ALSGlobal.com) or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Green County-2023&2024 Task 06

**Service Request:** K2308339

**Sample Name:** GC-COL-MW-1-PM-SSE-F5  
**Lab Code:** K2308339-001  
**Sample Matrix:** Soil

**Date Collected:** 07/24/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-COL-MW-1-PM-DUP-SSE-F5  
**Lab Code:** K2308339-002  
**Sample Matrix:** Soil

**Date Collected:** 07/24/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-COL-MW-44H-PM-SSE-F5  
**Lab Code:** K2308339-003  
**Sample Matrix:** Soil

**Date Collected:** 07/24/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-1-11.0-25.0-SSE-F5  
**Lab Code:** K2308339-004  
**Sample Matrix:** Soil

**Date Collected:** 07/24/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-2-34.0-40.0-SSE-F5  
**Lab Code:** K2308339-005  
**Sample Matrix:** Soil

**Date Collected:** 07/24/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Green County-2023&2024 Task 06

**Service Request:** K2308339

**Sample Name:** GC-AP-PT-3-10.0-15.0-SSE-F5  
**Lab Code:** K2308339-006  
**Sample Matrix:** Soil

**Date Collected:** 07/24/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-3-10.0-15.0-SSE-F5  
**Lab Code:** K2308339-006.R01  
**Sample Matrix:** Soil

**Date Collected:** 07/24/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-4-24.0-35.0-SSE-F5  
**Lab Code:** K2308339-007  
**Sample Matrix:** Soil

**Date Collected:** 07/24/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-4-24.0-35.0-SSE-F5  
**Lab Code:** K2308339-007.R01  
**Sample Matrix:** Soil

**Date Collected:** 07/24/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-5-12.0-22.0-SSE-F5  
**Lab Code:** K2308339-008  
**Sample Matrix:** Soil

**Date Collected:** 07/24/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN

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Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Green County-2023&2024 Task 06

**Service Request:** K2308339

**Sample Name:** GC-AP-PT-5-12.0-22.0-SSE-F5  
**Lab Code:** K2308339-008.R01  
**Sample Matrix:** Soil

**Date Collected:** 07/24/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN





# Sample Results

**ALS Environmental—Kelso Laboratory**  
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# Metals

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Phone (360) 577-7222 Fax (360) 425-9096  
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dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Green County-2023&2024 Task 06  
**Sample Matrix:** Soil  
**Sample Name:** GC-COL-MW-1-PM-SSE-F5  
**Lab Code:** K2308339-001

**Service Request:** K2308339  
**Date Collected:** 07/24/23 17:10  
**Date Received:** 07/25/23 14:45

**Basis:** As Received

**Total Metals**

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	<b>0.60</b>	mg/Kg	0.58	0.07	5	07/31/23 14:23	07/28/23	
Cobalt	200.8	<b>0.253</b>	mg/Kg	0.023	0.007	5	07/31/23 14:23	07/28/23	
Iron	200.8	<b>1370</b>	mg/Kg	1.2	0.5	5	07/31/23 14:23	07/28/23	
Manganese	200.8	<b>5.76</b>	mg/Kg	0.58	0.02	5	07/31/23 14:23	07/28/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Green County-2023&2024 Task 06  
**Sample Matrix:** Soil  
**Sample Name:** GC-COL-MW-1-PM-DUP-SSE-F5  
**Lab Code:** K2308339-002

**Service Request:** K2308339  
**Date Collected:** 07/24/23 17:15  
**Date Received:** 07/25/23 14:45

**Basis:** As Received

**Total Metals**

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	<b>0.66</b>	mg/Kg	0.53	0.06	5	07/31/23 14:25	07/28/23	
Cobalt	200.8	<b>0.384</b>	mg/Kg	0.021	0.006	5	07/31/23 14:25	07/28/23	
Iron	200.8	<b>1740</b>	mg/Kg	1.1	0.4	5	07/31/23 14:25	07/28/23	
Manganese	200.8	<b>6.76</b>	mg/Kg	0.53	0.02	5	07/31/23 14:25	07/28/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Green County-2023&2024 Task 06  
**Sample Matrix:** Soil  
**Sample Name:** GC-COL-MW-44H-PM-SSE-F5  
**Lab Code:** K2308339-003

**Service Request:** K2308339  
**Date Collected:** 07/24/23 17:20  
**Date Received:** 07/25/23 14:45

**Basis:** As Received

**Total Metals**

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	<b>2.79</b>	mg/Kg	0.57	0.07	5	07/31/23 14:27	07/28/23	
Cobalt	200.8	<b>1.84</b>	mg/Kg	0.023	0.007	5	07/31/23 14:27	07/28/23	
Iron	200.8	<b>4450</b>	mg/Kg	1.1	0.5	5	07/31/23 14:27	07/28/23	
Manganese	200.8	<b>15.4</b>	mg/Kg	0.57	0.02	5	07/31/23 14:27	07/28/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Green County-2023&2024 Task 06  
**Sample Matrix:** Soil  
**Sample Name:** GC-AP-PT-1-11.0-25.0-SSE-F5  
**Lab Code:** K2308339-004

**Service Request:** K2308339  
**Date Collected:** 07/24/23 17:25  
**Date Received:** 07/25/23 14:45

**Basis:** As Received

**Total Metals**

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date		Q
	Method	Result						Extracted		
Arsenic	200.8	<b>0.67</b>	mg/Kg	0.50	0.06	5	07/31/23 14:28	07/28/23		
Cobalt	200.8	<b>0.434</b>	mg/Kg	0.020	0.006	5	07/31/23 14:28	07/28/23		
Iron	200.8	<b>2310</b>	mg/Kg	1.0	0.4	5	07/31/23 14:28	07/28/23		
Manganese	200.8	<b>6.15</b>	mg/Kg	0.50	0.02	5	07/31/23 14:28	07/28/23		

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Green County-2023&2024 Task 06  
**Sample Matrix:** Soil  
**Sample Name:** GC-AP-PT-2-34.0-40.0-SSE-F5  
**Lab Code:** K2308339-005

**Service Request:** K2308339  
**Date Collected:** 07/24/23 17:30  
**Date Received:** 07/25/23 14:45

**Basis:** As Received

**Total Metals**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Arsenic	200.8	<b>0.67</b>	mg/Kg	0.52	0.06	5	07/31/23 14:30	07/28/23	
Cobalt	200.8	<b>0.391</b>	mg/Kg	0.021	0.006	5	07/31/23 14:30	07/28/23	
Iron	200.8	<b>2450</b>	mg/Kg	1.0	0.4	5	07/31/23 14:30	07/28/23	
Manganese	200.8	<b>7.25</b>	mg/Kg	0.52	0.02	5	07/31/23 14:30	07/28/23	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Green County-2023&2024 Task 06  
**Sample Matrix:** Soil  
**Sample Name:** GC-AP-PT-3-10.0-15.0-SSE-F5  
**Lab Code:** K2308339-006

**Service Request:** K2308339  
**Date Collected:** 07/24/23 17:35  
**Date Received:** 07/25/23 14:45

**Basis:** As Received

**Total Metals**

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date		Q
	Method	Result						Extracted		
Arsenic	200.8	<b>0.48 J</b>	mg/Kg	0.52	0.06	5	07/31/23 14:46	07/28/23		
Cobalt	200.8	<b>0.346</b>	mg/Kg	0.021	0.006	5	07/31/23 14:46	07/28/23		
Iron	200.8	<b>1440</b>	mg/Kg	1.0	0.4	5	07/31/23 14:46	07/28/23		
Manganese	200.8	<b>5.82</b>	mg/Kg	0.10	0.02	5	08/01/23 08:38	07/28/23		



**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Green County-2023&2024 Task 06  
**Sample Matrix:** Soil  
**Sample Name:** GC-AP-PT-4-24.0-35.0-SSE-F5  
**Lab Code:** K2308339-007

**Service Request:** K2308339  
**Date Collected:** 07/24/23 17:40  
**Date Received:** 07/25/23 14:45

**Basis:** As Received

**Total Metals**

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date		Q
	Method	Result						Extracted		
Arsenic	200.8	<b>0.51 J</b>	mg/Kg	0.51	0.06	5	07/31/23 14:48	07/28/23		
Cobalt	200.8	<b>0.529</b>	mg/Kg	0.020	0.006	5	07/31/23 14:48	07/28/23		
Iron	200.8	<b>1800</b>	mg/Kg	1.0	0.4	5	07/31/23 14:48	07/28/23		
Manganese	200.8	<b>9.23</b>	mg/Kg	0.10	0.02	5	08/01/23 08:43	07/28/23		

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Green County-2023&2024 Task 06  
**Sample Matrix:** Soil  
**Sample Name:** GC-AP-PT-5-12.0-22.0-SSE-F5  
**Lab Code:** K2308339-008

**Service Request:** K2308339  
**Date Collected:** 07/24/23 17:45  
**Date Received:** 07/25/23 14:45

**Basis:** As Received

**Total Metals**

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	<b>2.55</b>	mg/Kg	0.51	0.06	5	07/31/23 14:49	07/28/23	
Cobalt	200.8	<b>1.81</b>	mg/Kg	0.020	0.006	5	07/31/23 14:49	07/28/23	
Iron	200.8	<b>4150</b>	mg/Kg	1.0	0.4	5	07/31/23 14:49	07/28/23	
Manganese	200.8	<b>11.6</b>	mg/Kg	0.10	0.02	5	08/01/23 08:45	07/28/23	



# QC Summary Forms

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



# Metals

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**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Green County-2023&2024 Task 06  
**Sample Matrix:** Soil  
**Sample Name:** Method Blank  
**Lab Code:** KQ2313168-01

**Service Request:** K2308339  
**Date Collected:** NA  
**Date Received:** NA

**Basis:** As Received

**Total Metals**

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date		Q
	Method	Result						Extracted		
Arsenic	200.8	ND U	mg/Kg	0.50	0.06	5	07/31/23 14:15	07/28/23		
Cobalt	200.8	ND U	mg/Kg	0.020	0.006	5	07/31/23 14:15	07/28/23		
Iron	200.8	ND U	mg/Kg	1.0	0.4	5	07/31/23 14:15	07/28/23		
Manganese	200.8	<b>0.15 J</b>	mg/Kg	0.50	0.02	5	07/31/23 14:15	07/28/23		

**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023&2024 Task 06  
**Sample Matrix:** Soil

**Service Request:** K2308339  
**Date Analyzed:** 07/31/23

**Duplicate Lab Control Sample Summary**  
**Total Metals**

**Units:**mg/Kg  
**Basis:**As Received

**Lab Control Sample**  
KQ2313168-02

**Duplicate Lab Control Sample**  
KQ2313168-03

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>	<b>RPD</b>	<b>RPD Limit</b>
Arsenic	200.8	100	100	100	100	100	100	85-115	<1	30
Cobalt	200.8	97.1	100	97	97.7	100	98	85-115	<1	30
Iron	200.8	194	200	97	195	200	97	85-115	<1	30
Manganese	200.8	97.8	100	98	96.2	100	96	85-115	2	30



August 02, 2023

Service Request No:K2308340

Masa Kanematsu  
Anchor QEA, LLC  
6720 SW Macadam Avenue  
Suite 125  
Portland, OR 97219

**Laboratory Results for: Greene County Treatability**

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory July 25, 2023  
For your reference, these analyses have been assigned our service request number **K2308340**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at [Mark.Harris@alsglobal.com](mailto:Mark.Harris@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

for Mark Harris  
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626  
PHONE +1 360 577 7222 | FAX +1 360 636 1068  
ALS Group USA, Corp.  
dba ALS Environmental



# Narrative Documents

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Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)





**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability  
**Sample Matrix:** Water

**Service Request:** K2308340  
**Date Received:** 07/25/2023

**CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

**Sample Receipt:**

Nine water samples were received for analysis at ALS Environmental on 07/25/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

**Metals:**

No significant anomalies were noted with this analysis.

**SMO:**

No significant anomalies were noted with this analysis.

Approved by \_\_\_\_\_

Date 08/02/2023



### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

<b>CLIENT ID: GC-COL-MW-1-PM-SSE-F1</b>	<b>Lab ID: K2308340-001</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	1.3	J	0.5	2.5	ug/L	200.8
Cobalt, Dissolved	0.35		0.05	0.10	ug/L	200.8
Iron, Dissolved	17		2	10	ug/L	200.8
Manganese, Dissolved	40.3		0.2	2.5	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-1-PM-DUP-SSE-F1</b>	<b>Lab ID: K2308340-002</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	2.1	J	0.5	2.5	ug/L	200.8
Cobalt, Dissolved	0.35		0.05	0.10	ug/L	200.8
Iron, Dissolved	16		2	10	ug/L	200.8
Manganese, Dissolved	28.8		0.2	2.5	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-PM-SSE-F1</b>	<b>Lab ID: K2308340-003</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	3.8		0.5	2.5	ug/L	200.8
Cobalt, Dissolved	24.8		0.05	0.10	ug/L	200.8
Iron, Dissolved	6	J	2	10	ug/L	200.8
Manganese, Dissolved	395		0.2	2.5	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-1-11.0-25.0-SSE-F1</b>	<b>Lab ID: K2308340-004</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	2.0	J	0.5	2.5	ug/L	200.8
Cobalt, Dissolved	1.83		0.05	0.10	ug/L	200.8
Iron, Dissolved	22		2	10	ug/L	200.8
Manganese, Dissolved	274		0.2	2.5	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-2-34.0-40.0-SSE-F1</b>	<b>Lab ID: K2308340-005</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	2.4	J	0.5	2.5	ug/L	200.8
Cobalt, Dissolved	7.26		0.05	0.10	ug/L	200.8
Iron, Dissolved	3	J	2	10	ug/L	200.8
Manganese, Dissolved	435		0.2	2.5	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-3-10.0-15.0-SSE-F1</b>	<b>Lab ID: K2308340-006</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	2.1	J	0.5	2.5	ug/L	200.8
Cobalt, Dissolved	0.52		0.05	0.10	ug/L	200.8
Iron, Dissolved	4	J	2	10	ug/L	200.8
Manganese, Dissolved	262		0.2	2.5	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-4-24.0-35.0-SSE-F1</b>	<b>Lab ID: K2308340-007</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	2.3	J	0.5	2.5	ug/L	200.8



### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

<b>CLIENT ID: GC-AP-PT-4-24.0-35.0-SSE-F1</b>	<b>Lab ID: K2308340-007</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.27		0.05	0.10	ug/L	200.8
Iron, Dissolved	8	J	2	10	ug/L	200.8
Manganese, Dissolved	25.4		0.2	2.5	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-5-12.0-22.0-SSE-F1</b>	<b>Lab ID: K2308340-008</b>
---	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	2.5		0.5	2.5	ug/L	200.8
Cobalt, Dissolved	50.5		0.05	0.10	ug/L	200.8
Iron, Dissolved	16		2	10	ug/L	200.8
Manganese, Dissolved	193		0.2	2.5	ug/L	200.8

<b>CLIENT ID: GC-MB-2023-SSE-F1</b>	<b>Lab ID: K2308340-009</b>
-------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	2.6		0.5	2.5	ug/L	200.8
Cobalt, Dissolved	0.36		0.05	0.10	ug/L	200.8
Iron, Dissolved	4	J	2	10	ug/L	200.8
Manganese, Dissolved	40.9		0.2	2.5	ug/L	200.8



## Sample Receipt Information

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06


**Service Request:**K2308340

**SAMPLE CROSS-REFERENCE**


K2308340-001	GC-COL-MW-1-PM-SSE-F1	7/17/2023	1710
K2308340-002	GC-COL-MW-1-PM-DUP-SSE-F1	7/17/2023	1715
K2308340-003	GC-COL-MW-44H-PM-SSE-F1	7/17/2023	1720
K2308340-004	GC-AP-PT-1-11.0-25.0-SSE-F1	7/17/2023	1725
K2308340-005	GC-AP-PT-2-34.0-40.0-SSE-F1	7/17/2023	1730
K2308340-006	GC-AP-PT-3-10.0-15.0-SSE-F1	7/17/2023	1735
K2308340-007	GC-AP-PT-4-24.0-35.0-SSE-F1	7/17/2023	1740
K2308340-008	GC-AP-PT-5-12.0-22.0-SSE-F1	7/17/2023	1745
K2308340-009	GC-MB-2023-SSE-F1	7/17/2023	1750


142308340

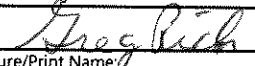
### Chain of Custody Record & Laboratory Analysis Request

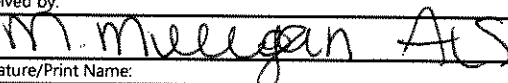
Laboratory Number: 503-972-5001					<b>Parameters</b>										 <b>Masa Kanematsu</b> 6720 SW Macadam Ave Suite 300 Portland OR 97219							
Date:		7/25/2023			<b>No. of Containers</b>	Dissolved Metals (As, Co, Fe, Mn) EPA 200.8	Total metals (As, Co, Fe, Mn) EPA 3050B															
Project Name:		Greene County Treatability																				
Project Number:		221114-05.02 - Greene County - 2023 & 2024 Task 06																				
Project Manager:		Masa Kanematsu																				
Phone Number:		503-972-5001 (backup number: 503-798-3456)																				
Shipment Method:		ALS Carrier																				
Line	Field Sample ID	Collection		Matrix	No. of Containers	Dissolved Metals (As, Co, Fe, Mn) EPA 200.8	Total metals (As, Co, Fe, Mn) EPA 3050B	Parameters										Comments/Preservation				
		Date	Time																			
1	GC-COL-MW-1-PM-SSE-F1	7/17/2023	17:10	Water	1	X																HNO3-Preserved; contains 0.67M MgCl2; 0.45um-filtered, std TAT
2	GC-COL-MW-1-PM-DUP-SSE-F1	7/17/2023	17:15	Water	1	X																HNO3-Preserved; contains 0.67M MgCl2; 0.45um-filtered, std TAT
3	GC-COL-MW-44H-PM-SSE-F1	7/17/2023	17:20	Water	1	X																HNO3-Preserved; contains 0.67M MgCl2; 0.45um-filtered, std TAT
4	GC-AP-PT-1-11.0-25.0-SSE-F1	7/17/2023	17:25	Water	1	X																HNO3-Preserved; contains 0.67M MgCl2; 0.45um-filtered, std TAT
5	GC-AP-PT-2-34.0-40.0-SSE-F1	7/17/2023	17:30	Water	1	X																HNO3-Preserved; contains 0.67M MgCl2; 0.45um-filtered, std TAT
6	GC-AP-PT-3-10.0-15.0-SSE-F1	7/17/2023	17:35	Water	1	X																HNO3-Preserved; contains 0.67M MgCl2; 0.45um-filtered, std TAT
7	GC-AP-PT-4-24.0-35.0-SSE-F1	7/17/2023	17:40	Water	1	X																HNO3-Preserved; contains 0.67M MgCl2; 0.45um-filtered, std TAT
8	GC-AP-PT-5-12.0-22.0-SSE-F1	7/17/2023	17:45	Water	1	X																HNO3-Preserved; contains 0.67M MgCl2; 0.45um-filtered, std TAT
9	GC-MB-2023-SSE-F1	7/17/2023	17:50	Water	1	X																HNO3-Preserved; contains 0.67M MgCl2; 0.45um-filtered, std TAT
10																						
11																						
12																						
13																						
14																						
15																						

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchorqea.com) if the samples need to be diluted > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb.

Relinquished by:	Company:
Sumant Avasarala	Anchor QEA
Signature/Print Name:	Date/Time:
	07/25/23

Received by:

Signature/Print Name:
Greg Rich 7-25-23 12:10 PM

Relinquished by:	Company:
	ALS
Signature/Print Name:	Date/Time:
Greg Rich	7-25-23 1445

Received by:

Signature/Print Name:
M. Mullen ALS 7/25/23 1445

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

PM MH

### Cooler Receipt and Preservation Form

Client Anchor Service Request K23 08340  
 Received: 7/25/23 Opened: 7/25/23 By: VMM Unloaded: 7/25/23 By: VMM

- Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
- Samples were received in: (circle) Cooler Box Envelope Other NA
- Were custody seals on coolers? NA Y N If yes, how many and where? \_\_\_\_\_  
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified if out of temp	Tracking Number NA	Filed
<u>1.6</u>	<u>0.6</u>	<u>IB06</u>	<u>Cooler 1</u>				
<u>5.3</u>	<u>4.5</u>	<u>↓</u>	<u>Cooler 2</u>				

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:  
 If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":

5. Were samples received within the method specified temperature ranges? NA Y N  
 If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N

If applicable, tissue samples were received: Frozen Partially Thawed Thawed

6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves

- Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- Were samples received in good condition (unbroken) NA Y N
- Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
- Did all sample labels and tags agree with custody papers? NA Y N
- Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
- Were VOA vials received without headspace? Indicate in the table below. NA Y N
- Was C12/Res negative? NA Y N
- Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N
- Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Dilut pH due to low volume



## Miscellaneous Forms

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso  
State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEH	<a href="http://dec.alaska.gov/eh/lab/cs/csapproval.htm">http://dec.alaska.gov/eh/lab/cs/csapproval.htm</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2795
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L16-58-R4
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Hawaii DOH	<a href="http://health.hawaii.gov/">http://health.hawaii.gov/</a>	-
ISO 17025	<a href="http://www.pjllabs.com/">http://www.pjllabs.com/</a>	L16-57
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	03016
Maine DHS	<a href="http://www.maine.gov/dhhs/">http://www.maine.gov/dhhs/</a>	WA01276
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-457
Nevada DEP	<a href="http://ndep.nv.gov/bsdw/labservice.htm">http://ndep.nv.gov/bsdw/labservice.htm</a>	WA01276
New Jersey DEP	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	WA005
New York - DOH	<a href="https://www.wadsworth.org/regulatory/elap">https://www.wadsworth.org/regulatory/elap</a>	12060
North Carolina DEQ	<a href="https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification">https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA100010
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/EnvironmentalLabCertification/">http://www.scdhec.gov/environment/EnvironmentalLabCertification/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704427
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C544
Wyoming (EPA Region 8)	<a href="https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water">https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water</a>	-
Kelso Laboratory Website	<a href="http://www.alsglobal.com">www.alsglobal.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.ALSGlobal.com](http://www.ALSGlobal.com) or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06

**Service Request:** K2308340

**Sample Name:** GC-COL-MW-1-PM-SSE-F1  
**Lab Code:** K2308340-001  
**Sample Matrix:** Water

**Date Collected:** 07/17/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-COL-MW-1-PM-SSE-F1  
**Lab Code:** K2308340-001.R01  
**Sample Matrix:** Water

**Date Collected:** 07/17/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-COL-MW-1-PM-DUP-SSE-F1  
**Lab Code:** K2308340-002  
**Sample Matrix:** Water

**Date Collected:** 07/17/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-COL-MW-1-PM-DUP-SSE-F1  
**Lab Code:** K2308340-002.R01  
**Sample Matrix:** Water

**Date Collected:** 07/17/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-COL-MW-44H-PM-SSE-F1  
**Lab Code:** K2308340-003  
**Sample Matrix:** Water

**Date Collected:** 07/17/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06

**Service Request:** K2308340

**Sample Name:** GC-COL-MW-44H-PM-SSE-F1  
**Lab Code:** K2308340-003.R01  
**Sample Matrix:** Water

**Date Collected:** 07/17/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-1-11.0-25.0-SSE-F1  
**Lab Code:** K2308340-004  
**Sample Matrix:** Water

**Date Collected:** 07/17/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-1-11.0-25.0-SSE-F1  
**Lab Code:** K2308340-004.R01  
**Sample Matrix:** Water

**Date Collected:** 07/17/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-2-34.0-40.0-SSE-F1  
**Lab Code:** K2308340-005  
**Sample Matrix:** Water

**Date Collected:** 07/17/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-2-34.0-40.0-SSE-F1  
**Lab Code:** K2308340-005.R01  
**Sample Matrix:** Water

**Date Collected:** 07/17/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

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dba ALS Environmental

Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06

**Service Request:** K2308340

**Sample Name:** GC-AP-PT-3-10.0-15.0-SSE-F1  
**Lab Code:** K2308340-006  
**Sample Matrix:** Water

**Date Collected:** 07/17/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-3-10.0-15.0-SSE-F1  
**Lab Code:** K2308340-006.R01  
**Sample Matrix:** Water

**Date Collected:** 07/17/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-4-24.0-35.0-SSE-F1  
**Lab Code:** K2308340-007  
**Sample Matrix:** Water

**Date Collected:** 07/17/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-4-24.0-35.0-SSE-F1  
**Lab Code:** K2308340-007.R01  
**Sample Matrix:** Water

**Date Collected:** 07/17/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-5-12.0-22.0-SSE-F1  
**Lab Code:** K2308340-008  
**Sample Matrix:** Water

**Date Collected:** 07/17/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

ALS Group USA, Corp.  
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Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06

**Service Request:** K2308340

**Sample Name:** GC-AP-PT-5-12.0-22.0-SSE-F1  
**Lab Code:** K2308340-008.R01  
**Sample Matrix:** Water

**Date Collected:** 07/17/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-MB-2023-SSE-F1  
**Lab Code:** K2308340-009  
**Sample Matrix:** Water

**Date Collected:** 07/17/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-MB-2023-SSE-F1  
**Lab Code:** K2308340-009.R01  
**Sample Matrix:** Water

**Date Collected:** 07/17/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN



# Sample Results

**ALS Environmental—Kelso Laboratory**  
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# Metals

**ALS Environmental—Kelso Laboratory**  
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Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

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dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-SSE-F1  
**Lab Code:** K2308340-001

**Service Request:** K2308340  
**Date Collected:** 07/17/23 17:10  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	1.3 J	ug/L	2.5	0.5	1	08/02/23 11:49	07/31/23	
Cobalt	200.8	0.35	ug/L	0.10	0.05	1	08/02/23 11:49	07/31/23	
Iron	200.8	17	ug/L	10	2	1	08/02/23 11:49	07/31/23	
Manganese	200.8	40.3	ug/L	2.5	0.2	1	08/02/23 11:49	07/31/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-DUP-SSE-F1  
**Lab Code:** K2308340-002

**Service Request:** K2308340  
**Date Collected:** 07/17/23 17:15  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	2.1 J	ug/L	2.5	0.5	1	08/02/23 11:59	07/31/23	
Cobalt	200.8	0.35	ug/L	0.10	0.05	1	08/02/23 11:59	07/31/23	
Iron	200.8	16	ug/L	10	2	1	08/02/23 11:59	07/31/23	
Manganese	200.8	28.8	ug/L	2.5	0.2	1	08/02/23 11:59	07/31/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-PM-SSE-F1  
**Lab Code:** K2308340-003

**Service Request:** K2308340  
**Date Collected:** 07/17/23 17:20  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	3.8	ug/L	2.5	0.5	1	08/02/23 12:00	07/31/23	
Cobalt	200.8	24.8	ug/L	0.10	0.05	1	08/02/23 12:00	07/31/23	
Iron	200.8	6 J	ug/L	10	2	1	08/02/23 12:00	07/31/23	
Manganese	200.8	395	ug/L	2.5	0.2	1	08/02/23 12:00	07/31/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-1-11.0-25.0-SSE-F1  
**Lab Code:** K2308340-004

**Service Request:** K2308340  
**Date Collected:** 07/17/23 17:25  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	<b>2.0 J</b>	ug/L	2.5	0.5	1	08/02/23 12:02	07/31/23	
Cobalt	200.8	<b>1.83</b>	ug/L	0.10	0.05	1	08/02/23 12:02	07/31/23	
Iron	200.8	<b>22</b>	ug/L	10	2	1	08/02/23 12:02	07/31/23	
Manganese	200.8	<b>274</b>	ug/L	2.5	0.2	1	08/02/23 12:02	07/31/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-2-34.0-40.0-SSE-F1  
**Lab Code:** K2308340-005

**Service Request:** K2308340  
**Date Collected:** 07/17/23 17:30  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	2.4 J	ug/L	2.5	0.5	1	08/02/23 12:03	07/31/23	
Cobalt	200.8	7.26	ug/L	0.10	0.05	1	08/02/23 12:03	07/31/23	
Iron	200.8	3 J	ug/L	10	2	1	08/02/23 12:03	07/31/23	
Manganese	200.8	435	ug/L	2.5	0.2	1	08/02/23 12:03	07/31/23	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-3-10.0-15.0-SSE-F1  
**Lab Code:** K2308340-006

**Service Request:** K2308340  
**Date Collected:** 07/17/23 17:35  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	2.1 J	ug/L	2.5	0.5	1	08/02/23 12:05	07/31/23	
Cobalt	200.8	0.52	ug/L	0.10	0.05	1	08/02/23 12:05	07/31/23	
Iron	200.8	4 J	ug/L	10	2	1	08/02/23 12:05	07/31/23	
Manganese	200.8	262	ug/L	2.5	0.2	1	08/02/23 12:05	07/31/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-4-24.0-35.0-SSE-F1  
**Lab Code:** K2308340-007

**Service Request:** K2308340  
**Date Collected:** 07/17/23 17:40  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	2.3 J	ug/L	2.5	0.5	1	08/02/23 12:07	07/31/23	
Cobalt	200.8	0.27	ug/L	0.10	0.05	1	08/02/23 12:07	07/31/23	
Iron	200.8	8 J	ug/L	10	2	1	08/02/23 12:07	07/31/23	
Manganese	200.8	25.4	ug/L	2.5	0.2	1	08/02/23 12:07	07/31/23	



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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-5-12.0-22.0-SSE-F1  
**Lab Code:** K2308340-008

**Service Request:** K2308340  
**Date Collected:** 07/17/23 17:45  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	2.5	ug/L	2.5	0.5	1	08/02/23 12:08	07/31/23	
Cobalt	200.8	50.5	ug/L	0.10	0.05	1	08/02/23 12:08	07/31/23	
Iron	200.8	16	ug/L	10	2	1	08/02/23 12:08	07/31/23	
Manganese	200.8	193	ug/L	2.5	0.2	1	08/02/23 12:08	07/31/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-MB-2023-SSE-F1  
**Lab Code:** K2308340-009

**Service Request:** K2308340  
**Date Collected:** 07/17/23 17:50  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	2.6	ug/L	2.5	0.5	1	08/02/23 12:10	07/31/23	
Cobalt	200.8	0.36	ug/L	0.10	0.05	1	08/02/23 12:10	07/31/23	
Iron	200.8	4 J	ug/L	10	2	1	08/02/23 12:10	07/31/23	
Manganese	200.8	40.9	ug/L	2.5	0.2	1	08/02/23 12:10	07/31/23	



## QC Summary Forms

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1317 South 13th Avenue, Kelso, WA 98626  
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[www.alsglobal.com](http://www.alsglobal.com)



# Metals

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Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

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dba ALS Environmental

Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** KQ2313099-01

**Service Request:** K2308340  
**Date Collected:** NA  
**Date Received:** NA

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	08/02/23 09:55	07/31/23	
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	08/02/23 09:55	07/31/23	
Iron	200.8	ND U	ug/L	2.0	0.3	1	08/02/23 09:55	07/31/23	
Manganese	200.8	ND U	ug/L	1.0	0.04	1	08/02/23 09:55	07/31/23	

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QA/QC Report

<b>Client:</b>	Anchor QEA, LLC	<b>Service Request:</b>	K2308340
<b>Project:</b>	Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06	<b>Date Collected:</b>	07/17/23
<b>Sample Matrix:</b>	Water	<b>Date Received:</b>	07/25/23
		<b>Date Analyzed:</b>	08/2/23
		<b>Date Extracted:</b>	07/31/23

**Matrix Spike Summary**  
**Dissolved Metals**

<b>Sample Name:</b>	GC-COL-MW-1-PM-SSE-F1	<b>Units:</b>	ug/L
<b>Lab Code:</b>	K2308340-001	<b>Basis:</b>	NA
<b>Analysis Method:</b>	200.8		
<b>Prep Method:</b>	EPA CLP ILM04.0		

**Matrix Spike**  
KQ2313099-06

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	1.3 J	262	250	104	70-130
Cobalt	0.35	114	125	91	70-130
Iron	17	252	250	94	70-130
Manganese	40.3	167	125	101	70-130

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06
Sample Matrix: Water

Service Request: K2308340
Date Collected: 07/17/23
Date Received: 07/25/23
Date Analyzed: 08/02/23

Replicate Sample Summary
Dissolved Metals

Sample Name: GC-COL-MW-1-PM-SSE-F1
Lab Code: K2308340-001

Units: ug/L
Basis: NA

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2313099-05 Result, Average, RPD, RPD Limit. Rows include Arsenic, Cobalt, Iron, and Manganese.

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024  
Task 06  
**Sample Matrix:** Water

**Service Request:** K2308340  
**Date Analyzed:** 08/02/23

**Lab Control Sample Summary**  
**Dissolved Metals**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
KQ2313099-02

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Arsenic	200.8	49.5	50.0	99	85-115
Cobalt	200.8	25.2	25.0	101	85-115
Iron	200.8	50.2	50.0	100	85-115
Manganese	200.8	26.0	25.0	104	85-115





August 03, 2023

Service Request No:K2308344

Masa Kanematsu  
Anchor QEA, LLC  
6720 SW Macadam Avenue  
Suite 125  
Portland, OR 97219

**Laboratory Results for: Greene County Treatability**

Dear Masa,

Enclosed are the results of the sample(s) submitted to our laboratory July 25, 2023  
For your reference, these analyses have been assigned our service request number **K2308344**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at [Mark.Harris@alsglobal.com](mailto:Mark.Harris@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Mark Harris  
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626  
PHONE +1 360 577 7222 | FAX +1 360 636 1068  
ALS Group USA, Corp.  
dba ALS Environmental



# Narrative Documents

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability  
**Sample Matrix:** Water

**Service Request:** K2308344  
**Date Received:** 07/25/2023

**CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

**Sample Receipt:**

Nine water samples were received for analysis at ALS Environmental on 07/25/2023. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

**Metals:**

No significant anomalies were noted with this analysis.

Approved by \_\_\_\_\_

Date 08/03/2023



### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

<b>CLIENT ID: GC-COL-MW-1-PM-SSE-F3</b>	<b>Lab ID: K2308344-001</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	3.11		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	0.186		0.009	0.020	ug/L	200.8
Iron, Dissolved	1240		0.3	2.0	ug/L	200.8
Manganese, Dissolved	16.9		0.04	0.50	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-1-PM-DUP-SSE-F3</b>	<b>Lab ID: K2308344-002</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	2.91		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	0.184		0.009	0.020	ug/L	200.8
Iron, Dissolved	1100		0.3	2.0	ug/L	200.8
Manganese, Dissolved	14.3		0.4	5.0	ug/L	200.8

<b>CLIENT ID: GC-COL-MW-44H-PM-SSE-F3</b>	<b>Lab ID: K2308344-003</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	5.66		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	91.8		0.009	0.020	ug/L	200.8
Iron, Dissolved	3210		0.3	2.0	ug/L	200.8
Manganese, Dissolved	1030		0.4	5.0	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-1-11.0-25.0-SSE-F3</b>	<b>Lab ID: K2308344-004</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.46	J	0.09	0.50	ug/L	200.8
Cobalt, Dissolved	0.360		0.009	0.020	ug/L	200.8
Iron, Dissolved	785		0.3	2.0	ug/L	200.8
Manganese, Dissolved	17.9		0.04	0.50	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-2-34.0-40.0-SSE-F3</b>	<b>Lab ID: K2308344-005</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.98		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	0.357		0.009	0.020	ug/L	200.8
Iron, Dissolved	1330		0.3	2.0	ug/L	200.8
Manganese, Dissolved	24.5		0.04	0.50	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-3-10.0-15.0-SSE-F3</b>	<b>Lab ID: K2308344-006</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.97		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	0.703		0.009	0.020	ug/L	200.8
Iron, Dissolved	1090		0.3	2.0	ug/L	200.8
Manganese, Dissolved	31.5		0.04	0.50	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-4-24.0-35.0-SSE-F3</b>	<b>Lab ID: K2308344-007</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	0.89		0.09	0.50	ug/L	200.8



### SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

<b>CLIENT ID: GC-AP-PT-4-24.0-35.0-SSE-F3</b>	<b>Lab ID: K2308344-007</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	7.05		0.009	0.020	ug/L	200.8
Iron, Dissolved	1430		0.3	2.0	ug/L	200.8
Manganese, Dissolved	334		0.04	0.50	ug/L	200.8

<b>CLIENT ID: GC-AP-PT-5-12.0-22.0-SSE-F3</b>	<b>Lab ID: K2308344-008</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic, Dissolved	6.85		0.09	0.50	ug/L	200.8
Cobalt, Dissolved	28.7		0.009	0.020	ug/L	200.8
Iron, Dissolved	4280		0.3	2.0	ug/L	200.8
Manganese, Dissolved	87.3		0.04	0.50	ug/L	200.8

<b>CLIENT ID: GC-MB-2023-SSE-F3</b>	<b>Lab ID: K2308344-009</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Cobalt, Dissolved	0.032		0.009	0.020	ug/L	200.8
Iron, Dissolved	25.2		0.3	2.0	ug/L	200.8
Manganese, Dissolved	11.5		0.04	0.50	ug/L	200.8



## Sample Receipt Information

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06


**Service Request:**K2308344

**SAMPLE CROSS-REFERENCE**


K2308344-001	GC-COL-MW-1-PM-SSE-F3	7/20/2023	1710
K2308344-002	GC-COL-MW-1-PM-DUP-SSE-F3	7/20/2023	1715
K2308344-003	GC-COL-MW-44H-PM-SSE-F3	7/20/2023	1720
K2308344-004	GC-AP-PT-1-11.0-25.0-SSE-F3	7/20/2023	1725
K2308344-005	GC-AP-PT-2-34.0-40.0-SSE-F3	7/20/2023	1730
K2308344-006	GC-AP-PT-3-10.0-15.0-SSE-F3	7/20/2023	1735
K2308344-007	GC-AP-PT-4-24.0-35.0-SSE-F3	7/20/2023	1740
K2308344-008	GC-AP-PT-5-12.0-22.0-SSE-F3	7/20/2023	1745
K2308344-009	GC-MB-2023-SSE-F3	7/20/2023	1750

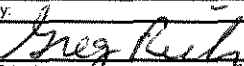
K2308344

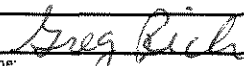
**Chain of Custody Record & Laboratory Analysis Request**


Laboratory Number: 503-972-5001					<b>Parameters</b>										 <b>ANCHOR QEA</b> Masa Kanematsu 6720 SW Macadam Ave Suite 300 Portland OR 97219									
Date:		7/25/2023			No. of Containers Dissolved Metals (As, Co, Fe, Mn) EPA 200.8 Total metals (As, Co, Fe, Mn) EPA 3050B																			
Project Name:		Greene County Treatability																						
Project Number:		221114-05.02 - Greene County - 2023 & 2024 Task 06																						
Project Manager:		Masa Kanematsu																						
Phone Number:		503-972-5001 (backup number: 503-798-3456)																						
Shipment Method:		ALS Carrier																						
Line	Field Sample ID	Collection		Matrix	No. of Containers	Dissolved Metals (As, Co, Fe, Mn) EPA 200.8	Total metals (As, Co, Fe, Mn) EPA 3050B											Comments/Preservation						
		Date	Time																					
1	GC-COL-MW-1-PM-SSE-F3	7/20/2023	17:10	Water	1	X																	HNO3-Preserved; contains 0.067 M Hydroxylamine HCl; 0.45um-filtered. <b>std TAT</b>	
2	GC-COL-MW-1-PM-DUP-SSE-F3	7/20/2023	17:15	Water	1	X																	HNO3-Preserved; contains 0.067 M Hydroxylamine HCl; 0.45um-filtered. <b>std TAT</b>	
3	GC-COL-MW-44H-PM-SSE-F3	7/20/2023	17:20	Water	1	X																	HNO3-Preserved; contains 0.067 M Hydroxylamine HCl; 0.45um-filtered. <b>std TAT</b>	
4	GC-AP-PT-1-11.0-25.0-SSE-F3	7/20/2023	17:25	Water	1	X																	HNO3-Preserved; contains 0.067 M Hydroxylamine HCl; 0.45um-filtered. <b>std TAT</b>	
5	GC-AP-PT-2-34.0-40.0-SSE-F3	7/20/2023	17:30	Water	1	X																	HNO3-Preserved; contains 0.067 M Hydroxylamine HCl; 0.45um-filtered. <b>std TAT</b>	
6	GC-AP-PT-3-10.0-15.0-SSE-F3	7/20/2023	17:35	Water	1	X																	HNO3-Preserved; contains 0.067 M Hydroxylamine HCl; 0.45um-filtered. <b>std TAT</b>	
7	GC-AP-PT-4-24.0-35.0-SSE-F3	7/20/2023	17:40	Water	1	X																	HNO3-Preserved; contains 0.067 M Hydroxylamine HCl; 0.45um-filtered. <b>std TAT</b>	
8	GC-AP-PT-5-12.0-22.0-SSE-F3	7/20/2023	17:45	Water	1	X																	HNO3-Preserved; contains 0.067 M Hydroxylamine HCl; 0.45um-filtered. <b>std TAT</b>	
9	GC-MB-2023-SSE-F3	7/20/2023	17:50	Water	1	X																	HNO3-Preserved; contains 0.067 M Hydroxylamine HCl; 0.45um-filtered. <b>std TAT</b>	
10																								
11																								
12																								
13																								
14																								
15																								

Notes: Please Contact Masa (503-972-5001, mkanematsu@anchoragea.com) if the samples need to be diluted > 10X dilution. Please analyze by ICP-MS method 200.8 to achieve the MDL < 1 ppb.

Relinquished by:	Company:
Sumant Avasarala	Anchor QEA
Signature/Print Name:	Date/Time:
	07/25/23

Received by:

Signature/Print Name:
Greg Rich 7-25-23 12:00 PM

Relinquished by:	Company:
	ALS
Signature/Print Name:	Date/Time:
Greg Rich	7-25-23 1445

Received by:

Signature/Print Name:
M. Mulligan ALS 7/25/23/1445

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.



PM MH

### Cooler Receipt and Preservation Form

Client Anchor Service Request K2308344  
Received: 7/25/23 Opened: 7/25/23 By: VM Unloaded: 7/25/23 By: VM

- 1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
- 2. Samples were received in: (circle) Cooler Box Envelope Other NA
- 3. Were custody seals on coolers? NA Y N If yes, how many and where? \_\_\_\_\_  
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp Indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
<u>1.6</u>	<u>0.6</u>	<u>IB06</u>	<u>Cooler 1</u>				
<u>5.3</u>	<u>4.5</u>	<u>↓</u>	<u>Cooler 2</u>				

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:  
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":

5. Were samples received within the method specified temperature ranges? NA Y N  
If no, were they received on ice and same day as collected? If not, notate the cooler # above and notify the PM. NA Y N  
If applicable, tissue samples were received: Frozen Partially Thawed Thawed

6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves

- 7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- 8. Were samples received in good condition (unbroken) NA Y N
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
- 10. Did all sample labels and tags agree with custody papers? NA Y N
- 11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
- 13. Were VOA vials received without headspace? Indicate in the table below. NA Y N
- 14. Was C12/Res negative? NA Y N
- 15. Were samples received within the method specified time limit? If not, notate the error below and notify the PM NA Y N
- 16. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Underfilled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Didn't pH due to low volume



## Miscellaneous Forms

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

### **Inorganic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### **Metals Data Qualifiers**

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Organic Data Qualifiers**

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.  
  - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### **Additional Petroleum Hydrocarbon Specific Qualifiers**

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso  
State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEH	<a href="http://dec.alaska.gov/eh/lab/cs/csapproval.htm">http://dec.alaska.gov/eh/lab/cs/csapproval.htm</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2795
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L16-58-R4
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Hawaii DOH	<a href="http://health.hawaii.gov/">http://health.hawaii.gov/</a>	-
ISO 17025	<a href="http://www.pjllabs.com/">http://www.pjllabs.com/</a>	L16-57
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/page/la-lab-accreditation">http://www.deq.louisiana.gov/page/la-lab-accreditation</a>	03016
Maine DHS	<a href="http://www.maine.gov/dhhs/">http://www.maine.gov/dhhs/</a>	WA01276
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-457
Nevada DEP	<a href="http://ndep.nv.gov/bsdw/labservice.htm">http://ndep.nv.gov/bsdw/labservice.htm</a>	WA01276
New Jersey DEP	<a href="http://www.nj.gov/dep/enforcement/oqa.html">http://www.nj.gov/dep/enforcement/oqa.html</a>	WA005
New York - DOH	<a href="https://www.wadsworth.org/regulatory/elap">https://www.wadsworth.org/regulatory/elap</a>	12060
North Carolina DEQ	<a href="https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification">https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA100010
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/EnvironmentalLabCertification/">http://www.scdhec.gov/environment/EnvironmentalLabCertification/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704427
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C544
Wyoming (EPA Region 8)	<a href="https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water">https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water</a>	-
Kelso Laboratory Website	<a href="http://www.alsglobal.com">www.alsglobal.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.ALSGlobal.com](http://www.ALSGlobal.com) or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06

**Service Request:** K2308344

**Sample Name:** GC-COL-MW-1-PM-SSE-F3  
**Lab Code:** K2308344-001  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-COL-MW-1-PM-SSE-F3  
**Lab Code:** K2308344-001.R01  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-COL-MW-1-PM-SSE-F3  
**Lab Code:** K2308344-001.R02  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-COL-MW-1-PM-DUP-SSE-F3  
**Lab Code:** K2308344-002  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-COL-MW-1-PM-DUP-SSE-F3  
**Lab Code:** K2308344-002.R01  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

ALS Group USA, Corp.  
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Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06

**Service Request:** K2308344

**Sample Name:** GC-COL-MW-1-PM-DUP-SSE-F3  
**Lab Code:** K2308344-002.R02  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-COL-MW-44H-PM-SSE-F3  
**Lab Code:** K2308344-003  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-COL-MW-44H-PM-SSE-F3  
**Lab Code:** K2308344-003.R01  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-COL-MW-44H-PM-SSE-F3  
**Lab Code:** K2308344-003.R02  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-1-11.0-25.0-SSE-F3  
**Lab Code:** K2308344-004  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN

ALS Group USA, Corp.  
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Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06

**Service Request:** K2308344

**Sample Name:** GC-AP-PT-1-11.0-25.0-SSE-F3  
**Lab Code:** K2308344-004.R01  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-1-11.0-25.0-SSE-F3  
**Lab Code:** K2308344-004.R02  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-2-34.0-40.0-SSE-F3  
**Lab Code:** K2308344-005  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-2-34.0-40.0-SSE-F3  
**Lab Code:** K2308344-005.R01  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-2-34.0-40.0-SSE-F3  
**Lab Code:** K2308344-005.R02  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
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Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06

**Service Request:** K2308344

**Sample Name:** GC-AP-PT-3-10.0-15.0-SSE-F3  
**Lab Code:** K2308344-006  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-3-10.0-15.0-SSE-F3  
**Lab Code:** K2308344-006.R01  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-3-10.0-15.0-SSE-F3  
**Lab Code:** K2308344-006.R02  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-4-24.0-35.0-SSE-F3  
**Lab Code:** K2308344-007  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-4-24.0-35.0-SSE-F3  
**Lab Code:** K2308344-007.R01  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

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dba ALS Environmental

Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06

**Service Request:** K2308344

**Sample Name:** GC-AP-PT-4-24.0-35.0-SSE-F3  
**Lab Code:** K2308344-007.R02  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-5-12.0-22.0-SSE-F3  
**Lab Code:** K2308344-008  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
MSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-5-12.0-22.0-SSE-F3  
**Lab Code:** K2308344-008.R01  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-AP-PT-5-12.0-22.0-SSE-F3  
**Lab Code:** K2308344-008.R02  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-MB-2023-SSE-F3  
**Lab Code:** K2308344-009  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
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Analyst Summary report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06

**Service Request:** K2308344

**Sample Name:** GC-MB-2023-SSE-F3  
**Lab Code:** K2308344-009.R01  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN

**Sample Name:** GC-MB-2023-SSE-F3  
**Lab Code:** K2308344-009.R02  
**Sample Matrix:** Water

**Date Collected:** 07/20/23  
**Date Received:** 07/25/23

**Analysis Method**  
200.8

**Extracted/Digested By**  
SSOLADEY

**Analyzed By**  
JCHAN



# Sample Results

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360) 577-7222 Fax (360) 425-9096  
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# Metals

**ALS Environmental—Kelso Laboratory**  
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Phone (360) 577-7222 Fax (360) 425-9096  
[www.alsglobal.com](http://www.alsglobal.com)

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-SSE-F3  
**Lab Code:** K2308344-001

**Service Request:** K2308344  
**Date Collected:** 07/20/23 17:10  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	3.11	ug/L	0.50	0.09	1	08/03/23 09:38	08/02/23	
Cobalt	200.8	0.186	ug/L	0.020	0.009	1	08/01/23 13:14	07/31/23	
Iron	200.8	1240	ug/L	2.0	0.3	1	08/01/23 13:14	07/31/23	
Manganese	200.8	16.9	ug/L	0.50	0.04	1	08/02/23 08:28	07/31/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-1-PM-DUP-SSE-F3  
**Lab Code:** K2308344-002

**Service Request:** K2308344  
**Date Collected:** 07/20/23 17:15  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	<b>2.91</b>	ug/L	0.50	0.09	1	08/03/23 09:39	08/02/23	
Cobalt	200.8	<b>0.184</b>	ug/L	0.020	0.009	1	08/01/23 13:19	07/31/23	
Iron	200.8	<b>1100</b>	ug/L	2.0	0.3	1	08/01/23 13:19	07/31/23	
Manganese	200.8	<b>14.3</b>	ug/L	5.0	0.4	10	08/02/23 09:00	07/31/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-COL-MW-44H-PM-SSE-F3  
**Lab Code:** K2308344-003

**Service Request:** K2308344  
**Date Collected:** 07/20/23 17:20  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	<b>5.66</b>	ug/L	0.50	0.09	1	08/03/23 09:43	08/02/23	
Cobalt	200.8	<b>91.8</b>	ug/L	0.020	0.009	1	08/01/23 13:21	07/31/23	
Iron	200.8	<b>3210</b>	ug/L	2.0	0.3	1	08/01/23 13:21	07/31/23	
Manganese	200.8	<b>1030</b>	ug/L	5.0	0.4	10	08/02/23 08:34	07/31/23	



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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-1-11.0-25.0-SSE-F3  
**Lab Code:** K2308344-004

**Service Request:** K2308344  
**Date Collected:** 07/20/23 17:25  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	<b>0.46 J</b>	ug/L	0.50	0.09	1	08/03/23 09:44	08/02/23	
Cobalt	200.8	<b>0.360</b>	ug/L	0.020	0.009	1	08/01/23 13:22	07/31/23	
Iron	200.8	<b>785</b>	ug/L	2.0	0.3	1	08/01/23 13:22	07/31/23	
Manganese	200.8	<b>17.9</b>	ug/L	0.50	0.04	1	08/02/23 08:36	07/31/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-2-34.0-40.0-SSE-F3  
**Lab Code:** K2308344-005

**Service Request:** K2308344  
**Date Collected:** 07/20/23 17:30  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	<b>0.98</b>	ug/L	0.50	0.09	1	08/03/23 09:46	08/02/23	
Cobalt	200.8	<b>0.357</b>	ug/L	0.020	0.009	1	08/01/23 13:24	07/31/23	
Iron	200.8	<b>1330</b>	ug/L	2.0	0.3	1	08/01/23 13:24	07/31/23	
Manganese	200.8	<b>24.5</b>	ug/L	0.50	0.04	1	08/02/23 08:37	07/31/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-3-10.0-15.0-SSE-F3  
**Lab Code:** K2308344-006

**Service Request:** K2308344  
**Date Collected:** 07/20/23 17:35  
**Date Received:** 07/25/23 14:45

**Basis:** NA

**Dissolved Metals**

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date		Q
	Method	Result						Extracted		
Arsenic	200.8	<b>0.97</b>	ug/L	0.50	0.09	1	08/03/23 09:47	08/02/23		
Cobalt	200.8	<b>0.703</b>	ug/L	0.020	0.009	1	08/01/23 13:26	07/31/23		
Iron	200.8	<b>1090</b>	ug/L	2.0	0.3	1	08/01/23 13:26	07/31/23		
Manganese	200.8	<b>31.5</b>	ug/L	0.50	0.04	1	08/02/23 08:42	07/31/23		

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-4-24.0-35.0-SSE-F3  
**Lab Code:** K2308344-007

**Service Request:** K2308344  
**Date Collected:** 07/20/23 17:40  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	<b>0.89</b>	ug/L	0.50	0.09	1	08/03/23 09:51	08/02/23	
Cobalt	200.8	<b>7.05</b>	ug/L	0.020	0.009	1	08/01/23 13:27	07/31/23	
Iron	200.8	<b>1430</b>	ug/L	2.0	0.3	1	08/01/23 13:27	07/31/23	
Manganese	200.8	<b>334</b>	ug/L	0.50	0.04	1	08/02/23 08:43	07/31/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-AP-PT-5-12.0-22.0-SSE-F3  
**Lab Code:** K2308344-008

**Service Request:** K2308344  
**Date Collected:** 07/20/23 17:45  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	6.85	ug/L	0.50	0.09	1	08/03/23 09:53	08/02/23	
Cobalt	200.8	28.7	ug/L	0.020	0.009	1	08/01/23 13:41	07/31/23	
Iron	200.8	4280	ug/L	2.0	0.3	1	08/01/23 13:41	07/31/23	
Manganese	200.8	87.3	ug/L	0.50	0.04	1	08/02/23 08:45	07/31/23	

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** GC-MB-2023-SSE-F3  
**Lab Code:** K2308344-009

**Service Request:** K2308344  
**Date Collected:** 07/20/23 17:50  
**Date Received:** 07/25/23 14:45

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date	
	Method	Result						Extracted	Q
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	08/03/23 09:54	08/02/23	
Cobalt	200.8	<b>0.032</b>	ug/L	0.020	0.009	1	08/01/23 13:43	07/31/23	
Iron	200.8	<b>25.2</b>	ug/L	2.0	0.3	1	08/01/23 13:43	07/31/23	
Manganese	200.8	<b>11.5</b>	ug/L	0.50	0.04	1	08/02/23 08:47	07/31/23	



# QC Summary Forms

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** KQ2313087-01

**Service Request:** K2308344  
**Date Collected:** NA  
**Date Received:** NA

**Basis:** NA

Dissolved Metals

Analyte Name	Analysis		Units	MRL	MDL	Dil.	Date Analyzed	Date		Q
	Method	Result						Extracted		
Cobalt	200.8	ND U	ug/L	0.020	0.009	1	08/01/23 12:23	07/31/23		
Iron	200.8	ND U	ug/L	2.0	0.3	1	08/01/23 12:23	07/31/23		
Manganese	200.8	<b>0.28 J</b>	ug/L	0.50	0.04	1	08/02/23 08:04	07/31/23		

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Analytical Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** KQ2313507-01

**Service Request:** K2308344  
**Date Collected:** NA  
**Date Received:** NA

**Basis:** NA

Dissolved Metals

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Arsenic	200.8	ND U	ug/L	0.50	0.09	1	08/03/23 09:35	08/02/23	

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QA/QC Report

**Client:** Anchor QEA, LLC **Service Request:** K2308344  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06 **Date Collected:** 07/20/23  
**Sample Matrix:** Water **Date Received:** 07/25/23  
**Date Analyzed:** 08/01/23 - 08/02/23  
**Date Extracted:** 07/31/23

**Matrix Spike Summary**  
**Dissolved Metals**

**Sample Name:** GC-COL-MW-1-PM-SSE-F3 **Units:** ug/L  
**Lab Code:** K2308344-001 **Basis:** NA  
**Analysis Method:** 200.8  
**Prep Method:** EPA CLP ILM04.0

**Matrix Spike**  
KQ2313087-04

<b>Analyte Name</b>	<b>Sample Result</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Cobalt	0.186	26.2	25.0	104	70-130
Iron	1240	1270	50.0	69 #	70-130
Manganese	16.9	42.1	25.0	101	70-130

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

**Client:** Anchor QEA, LLC **Service Request:** K2308344  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06 **Date Collected:** 07/20/23  
**Sample Matrix:** Water **Date Received:** 07/25/23  
**Date Analyzed:** 08/3/23  
**Date Extracted:** 08/2/23

**Matrix Spike Summary**  
**Dissolved Metals**

**Sample Name:** GC-COL-MW-1-PM-DUP-SSE-F3 **Units:** ug/L  
**Lab Code:** K2308344-002 **Basis:** NA  
**Analysis Method:** 200.8  
**Prep Method:** EPA CLP ILM04.0

**Matrix Spike**  
KQ2313507-04

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Arsenic	2.91	49.0	50.0	92	70-130

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06
Sample Matrix: Water

Service Request: K2308344
Date Collected: 07/20/23
Date Received: 07/25/23
Date Analyzed: 08/01/23 - 08/02/23

Replicate Sample Summary
Dissolved Metals

Sample Name: GC-COL-MW-1-PM-SSE-F3
Lab Code: K2308344-001

Units: ug/L
Basis: NA

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2313087-03 Result, Average, RPD, RPD Limit. Rows include Cobalt, Iron, and Manganese.

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Anchor QEA, LLC
Project: Greene County Treatability/221114-05.02-Greene County-2023 & 2024 Task 06
Sample Matrix: Water

Service Request: K2308344
Date Collected: 07/20/23
Date Received: 07/25/23
Date Analyzed: 08/03/23

Replicate Sample Summary
Dissolved Metals

Sample Name: GC-COL-MW-1-PM-DUP-SSE-F3 Units: ug/L
Lab Code: K2308344-002 Basis: NA

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2313507-03 Result, Average, RPD, RPD Limit. Row 1: Arsenic, 200.8, 0.50, 0.09, 2.91, 3.04, 2.98, 4, 20.

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024  
Task 06  
**Sample Matrix:** Water

**Service Request:** K2308344  
**Date Analyzed:** 08/01/23 - 08/02/23

**Lab Control Sample Summary**  
**Dissolved Metals**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
KQ2313087-02

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Cobalt	200.8	25.2	25.0	101	85-115
Iron	200.8	51.8	50.0	104	85-115
Manganese	200.8	25.3	25.0	101	85-115

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QA/QC Report

**Client:** Anchor QEA, LLC  
**Project:** Greene County Treatability/221114-05.02-Greene County-2023 & 2024  
Task 06  
**Sample Matrix:** Water

**Service Request:** K2308344

**Date Analyzed:** 08/03/23

**Lab Control Sample Summary**  
**Dissolved Metals**

**Units:**ug/L

**Basis:**NA

**Lab Control Sample**  
KQ2313507-02

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Arsenic	200.8	47.5	50.0	95	85-115